O/C

BEIL INFRASTRUCTURE LIMITED
(formerly known as Bharuch Enviro Infrastructure Limited)
Unit - Dahej

Ref.: BEIL/DHJ/2022-23/48

Date: 30.12.2022

PCB ID # 40137

To,
The Director
Room No 407, Aranya Bhawan,
Near CH-3 Circle, Sector 10A,
Gandhinagar, Gujarat - 382010

Sub.: Half yearly compliance report of two EC's for Common Treatment, Storage, Disposal facility (TSDF) & Multi Effect Evaporator (MEE) and Installation of two incinerators & capacity enhancement of existing landfill. period April'22 to Sep'22.

Ref.:1. Environmental Clearance No. SEIAA/GUJ/EC/7(d)/227/2013 dated 22nd July,2013 for setting up of common hazardous waste Treatment, Storage, Disposal facility (TSDF) and Multi Effect Evaporator (MEE)

2. Environmental Clearance F. No. 10-43/2016-IA-III dated 19th Dec. 2018 for Installation of two incinerators and capacity enhancement of Existing Landfill Facility

Dear Sir,

BEIL is operating a TSDF facility consisting of a secured land fill Facility and Multi Effect Evaporator (MEE) followed by spray dryer located at Plot No. D-43, Dahej Industrial Estate, Tal. Vagra, Dist.Bharuch,Gujarat.

We are submitting here with the half yearly Compliance status report of both the above referred Environment Clearances for period April'22 to Sep'22. With this, we would also like to inform that EC no F. No. 10-43/2016-IA-III dated 19th Dec, 2018 for Installation of two incinerators and capacity enhancement of existing Landfill has not been implemented till date. However, Incinerator plant is installed and started from October.

BEIL has received land fillable Hazardous waste: During 1st April'22 to 30th Sep'22 is 100936.723 MT. Cumulative quantity disposed in landfill from the beginning (up to 30.09.2022) is 9,31.927.263 MT.

31/12/22

Post Received
Gujarat Pollution Control Board
BHARUCH

CIN NO. U45300GJ1997PLC032696
Works Office : Plot No. D-43, Dahej Amod Road, GIDC Estate, Dahej, T. Vagra - 392 130, Dist. Bharuch (Gujarat)
Phone : (02641) 291129, E-mail : mistryrg@beil.co.in
Regd. Office : Plot No. 9701-16, GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 225228 Fax : (02642) 222849 E-mail : dalwadibd@beil.co.in

BEIL INFRASTRUCTURE LIMITED
(formerly known as Bharuch Enviro Infrastructure Limited)
Unit - Dahej

We hope that the above is in order. In case you need any additional information, we can provide the same on hearing from you.

Thanking you,

Yours faithfully,
For, BEIL Infrastructure Limited

Authorized Signatory

Encl: As above
CC : Gujarat Pollution Control Board,
Bharuch

CC: Central Pollution Control Board,
Vadodara

CIN NO. U45300GJ1997PLC032696
Works Office : Plot No. D-43, Dahej Amod Road, GIDC Estate, Dahej, T. Vagra - 392 130, Dist. Bharuch (Gujarat)
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Phones (02646) 253135, 225228 Fax : (02642) 222849 E-mail : dalwadibd@beil.co.in

FW: EC Compliance for the period of Apr'22 to Sep'22 of BEIL Infrastructure Ltd.-Dahej Plot No. D/43, GIDC Estate, Amod Road, dahej - 392130, Dist. Bharuch.

RAJESHKUMAR MISTRY/Project/GUJARAT <mistryrg@beil.co.in>
Thu 1/5/2023 10:41 AM

To: Janki Kapadia/Environment/BHARUCH <environmentdahej@beil.co.in>

Cc: Rakshita Vyas/Environment/Ankleshwar <rakshita.vyas@beil.co.in>

Dear Kruti

For your information

Best Regards,

Rajesh Mistry
BEIL Infrastructure Limited
Plot No-D-43
Dahej
Mobile-9099057365

My email ID has been changed to "mistryrg@beil.co.in"

From: RAJESHKUMAR MISTRY/Project/GUJARAT
Sent: 03 January 2023 10:06
To: iro.gandhingr-mefcc@gov.in; ec-rdw.cpcb@gov.in
Cc: Maheshchandra Trivedi <mahesh.trivedi@beil.co.in>; Rakshita Vyas/Environment/Ankleshwar <rakshita.vyas@beil.co.in>
Subject: EC Compliance for the period of Apr'22 to Sep'22 of BEIL Infrastructure Ltd.-Dahej Plot No. D/43, GIDC Estate, Amod Road, dahej - 392130, Dist. Bharuch.

Dear sir,

Please find the EC compliance report for the period of April'22 to Sep'22 of BEIL Infrastructure Ltd.-Dahej.

Best Regards,

Rajesh Mistry
BEIL Infrastructure Limited
Plot No-D-43
Dahej
Mobile-9099057365

My email ID has been changed to "mistryrg@beil.co.in"

1. Compliance Status of Environmental clearance for setting up of a common hazardous waste treatment, storage, disposal facility (TSDF) and Multi Effect Evaporation (MEE) plant at Plot No. D-43, Dahej Industrial Estate, Tal. Vagra, Dist. Bharuch by M/s BEIL Infrastructure Limited for Period April'22 to September'22.

EC File No.: SEIAA/GUJ/EC/7(d)/ 227/2013 dated 22nd July 2013

Sr. No	EC Conditions Details	Status
1.	The proposal is for Environmental Clearance for M/s, Bharuch Enviro Infrastructure Limited (BEIL) for setting up of a common hazardous waste Treatment, Storage, Disposal Facility (TSDF) and Multiple Effect Evaporation (MEE) Plant at Plot No. D-43, Dahej Industrial Estate, Tal. Vagra, Dist. Bharuch. M/s, BEIL Infrastructure Ltd. (BEIL) proposes to set up TSDF (14 Lac MT) and MEE Plant (3*200KL/day) at Plot No. D-43, Dahej Industrial Estate, Dist. Bharuch. The proposal falls under project / activity no. 7(d) in the Schedule of the EIA Notification, 2006.	Noted.
2	The proposed project falls under category 7(d) of the schedule of the EIA Notification, 2006. As the proposed project is situated in the industrial area, which is not notified, it falls in Category B as per the schedule of the EIA Notification-2006.	Noted
3	The project activity is covered in 7(d) and is of 'B' Category, Since, the proposed project is located in the industrial area, which is not notified, public consultation is required as per paragraph 7(i) (III) (i) (b) of the Environment Impact Assessment Notification-2006. Public hearing of the project was conducted by the GPCB on 05/04/2013 at 11:30 Hrs. At P.J. Chheda JantaVidyalay, Dahej, Tal. Vagra, Dist. Bharuch	Noted
4	The SEAC, Gujarat had recommended to the SEIAA, Gujarat, to grant the Environment Clearance to this project for the above-mentioned project. The proposal was considered by SEIAA, Gujarat in its meeting held on	Noted

	22/07/2013 at Gandhinagar. Since the public consultation is required for the project, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September 2008 subject to the compliance of the following conditions.	

SPECIFIC CONDITIONS:

Sr. No.	Description	Status
1.	Ground water table at the project site shall be ascertained through the GWRDC before initiating construction of secured landfill site. The depth of the secured land fill site shall be decided based on the ground water level at the site and bottom of the secured landfill site shall be kept at least 2 m above the ground water table.	Complied. Ground water table at the project site has been ascertained through the GWRDC before initiating construction of secured landfill site. The depth of the secured land fill site has been decided based on the ground water level at the site and bottom of the secured landfill site, which is 7.5 (> 2 m as per the landfill criteria) meter above the ground water table. Report of GWRDC is attached as **ANNEXURE 1**.
2	Construction of the secured landfill site shall be undertaken meticulously keeping in view the existing natural drainage pattern of the site to ensure that the natural drainage is not affected. All construction designs/drawings relating to the proposed landfill site must have approvals of reputed institutes like NPC/IIT	Complied. Construction of the secured landfill site has been undertaken meticulously keeping in view the existing natural drainage pattern of the site ensuring that the natural drainage is not affected. All Construction design/ drawings relating to the proposed landfill site are approved from IIT, Delhi. Drawings approved by IIT; Delhi are attached as **ANNEXURE 2**.
3	The proponent shall ensure that design and construction of secured landfill site is as per the guidelines of CPCB with	Complied. We have ensured that design and construction of secured landfill site is as per guidelines of CPCB with proper leachate collection arrangement. Summary of the CPCB guidelines compliance has

	proper leachate collection arrangement.	attached as **ANNEXURE 3**.
4	The proponent shall ensure that the transportation of the Hazardous wastes to the TSDF conforms to the norms laid down in the Hazardous Wastes (Management, Handling, and Transboundary Movement) Rules 2008	Complied. We have ensured that the transportation of the hazardous wastes to the TSDF confirms to the norms laid down in the hazardous and other waste (Management and Trans boundary Movement) rules 2016 and its subsequent amendments i.e. licensed and trained drivers, close and hydraulic dumpers, GPS enabled dumpers etc. Total Approved 453 dedicated vehicles equipped with GPS system are being used for Transportation of Hazardous waste from member Industries to TSDF.
5	Project proponent shall ensure that wastes with organic content >5% of degradable organic matters are not disposed into the landfill. How-ever required arrangement for collection, treatment and disposal of gases from the secured landfill if any shall be provided.	Complied. We are carrying out finger-print analysis of every truck load of waste received at site. We ensure that waste with organic content >5% of degradable organic matters are not disposed into landfill. Comprehensive analysis is being carried out at the time of enrolling members. If organic content is high, the waste will be incinerated within premises. Only inorganic-waste or waste meeting acceptance criteria, is sent to landfill. Typical reports of finger-print analysis of solid waste are attached as **ANNEXURE 4.**
6	The TSDF & MEE shall only handle the waste generated from the member units.	Complied. The waste generated from members of BEIL is only accepted who have valid CC&A obtained from GPCB. At present we are having 1031 members for Landfill at BEIL. In support of this we are submitting returns to GPCB.
7	The project Proponent shall set up necessary facility for onsite testing of wastes to decide the requirement of treatment if any before disposal.	Complied. We have set up a Laboratory with all the required facilities for onsite testing of wastes to decide the requirement of treatment (Stabilization/ Neutralization/Solidification) if any before disposal.
8	Project Proponent shall carryout periodical ground water/soil monitoring to and around the site to check the contamination including TCLP test for heavy metals	Complied. Ground water analysis is done internal (internal locations) and by third party (internal and surrounding the premises) every month Soil analysis is done pre and post monsoon and location are within the premises including TCLP test.

<table>
<tr>
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<td>The monitoring results of ground water & soil conducted by third party are attached as ANNEXURE 5.

Summary Table: Ground Water (April’22 to September’22)

<table>
<tr><th>Sr. No</th><th>Parameter</th><th>Unit</th><th>Average of Up-stream borewell</th><th>Average of down-stream</th><th>Average of outside premises</th></tr>
<tr><td>1</td><td>pH</td><td></td><td>7.24-7.69</td><td>7.43-7.6</td><td>7.48- 7.89</td></tr>
<tr><td>2</td><td>Conductivity</td><td>mmhos/cm</td><td>54.64</td><td>51.61</td><td>0.74</td></tr>
<tr><td>3</td><td>Turbidity</td><td>NTU</td><td>1.50</td><td>1.31</td><td>0.41</td></tr>
<tr><td>4</td><td>TSS</td><td>mg/l</td><td>13.33</td><td>9.79</td><td>ND</td></tr>
<tr><td>5</td><td>TDS</td><td>mg/l</td><td>35513.66</td><td>33495.94</td><td>478.00</td></tr>
<tr><td>6</td><td>TOC</td><td>mg/l</td><td>7.64</td><td>6.99</td><td>ND</td></tr>
<tr><td>7</td><td>Colour</td><td>Co-pt</td><td>12.66</td><td>10.78</td><td>4.61</td></tr>
<tr><td>8</td><td>COD</td><td>mg/l</td><td>73.66</td><td>67.00</td><td>ND</td></tr>
<tr><td>9</td><td>Chloride</td><td>mg/l</td><td>16011.66</td><td>14696.39</td><td>187.77</td></tr>
</table>

Summary Table: Soil Analysis (Post-Monsoon)

<table>
<tr><th>Sr No</th><th>Parameters</th><th>pH</th><th>Conductivity (umho/cm)</th><th>TDS (%)</th><th>TOC (%)</th></tr>
<tr><td>1</td><td>Nr EB-1</td><td>8.43</td><td>2287</td><td>1.26</td><td>0.73</td></tr>
<tr><td>2</td><td>Opp Salt Farm</td><td>8.41</td><td>3938</td><td>1.92</td><td>0.87</td></tr>
<tr><td>3</td><td>Nr EB-2</td><td>8.53</td><td>1874</td><td>1.68</td><td>0.45</td></tr>
<tr><td>4</td><td>Opp. Khetan Ind</td><td>8.25</td><td>3093</td><td>1.42</td><td>0.53</td></tr>
<tr><td>5</td><td>Nr ADM</td><td>8.43</td><td>1712</td><td>1.13</td><td>0.57</td></tr>
<tr><td>6</td><td>Behind Tegros</td><td>8.64</td><td>2739</td><td>1.32</td><td>0.93</td></tr>
</table>
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<tr>
<td>9</td>
<td>The thirds party assessment on functioning of the TSDF and MEE shall be carried out through a reputed institute like</td>
<td>Complied.
We have constructed Cell#1, Cell# 2 & Cell# 5, Cell#3, Cell# 4, under IIT, Delhi’s guidance. A third-party assessment on functioning of the TSDF & MEE is carried out by a GPCB appointed reputed academic Institute (Schedule -1 Auditors)</td>
</tr>
</table>

<table>
<tr><td></td><td>NPC/IIT or any academic / research institute of similar repute once in a year and mitigation measures as may be suggested by such institute shall be implemented in consultation with the Gujarat Pollution Control Board</td><td>every year. The recommendations and their compliance are submitted to GPCB every six months.
Also, Expert from IIT, Delhi, visit, the site and give us their report. These reports are submitted to GPCB.
Auditor’s recommendation & compliance submitted to GPCB and Last report of IIT Inspection submitted to GPCB, are enclosed as ANNEXURE 6.</td></tr>
<tr><td>A.1</td><td colspan="2">Water:</td></tr>
<tr><td>10</td><td>Fresh water requirement shall not exceed 350 KL/day and it shall be met only through water supply from the GIDC Metering of water shall be done and its records shall be maintained. No ground water shall be tapped for the project requirements in any case.</td><td>Complied.

Total water consumption in last 6 month is 18470 kl and per day is @ 100.966 KLD. Summary of the same as below.
<table>
<tr><th>Sr. No</th><th>Month</th><th>Water Consumption (KL/ month)</th><th>Average (KLD)</th></tr>
<tr><td>1</td><td>Apr’22</td><td>4158</td><td>138.6</td></tr>
<tr><td>2</td><td>May’22</td><td>4087</td><td>131.8</td></tr>
<tr><td>3</td><td>June’22</td><td>2854</td><td>95.1</td></tr>
<tr><td>4</td><td>July’22</td><td>2622</td><td>84.5</td></tr>
<tr><td>5</td><td>Aug’22</td><td>2294</td><td>74.0</td></tr>
<tr><td>6</td><td>Sep’22</td><td>2455</td><td>81.8</td></tr>
<tr><td></td><td>Average</td><td>3078.33</td><td>100.966</td></tr>
</table></td></tr>
<tr><td>11</td><td>A leachate collection system shall be provided to collect the leachates at a collection point. Leachate shall be pumped from leachate wells and shall be treated in in-house MEE. However, in the initial two – three year the leachate shall be sent to BEIL Ankleshwar for treatment with MEE.</td><td>Complied.

Leachate collection system is provided to collect the leachates at collection-points.
There is planning to construct total 7 no. of leachate collection wells, from which 4 collection wells have been constructed for the cell 1, cell2 and cell5, cell3, cell4 and monsoon shed.
In-house MEE was put up on 12.12.17 and thereafter leachate is treated in in-house MEE.
During (Apr’22 to Sep’22), Average Leachate treated in MEE, is @ 21.45 KLD. Summary of the same as below.</td></tr>
</table>

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<tr><td></td><td></td><td>
<table>
<tr><th>Sr. No</th><th>Month</th><th>Leachate generation (KL/ month)</th><th>Average (KLD)</th></tr>
<tr><td>1</td><td>Apr’22</td><td>648.9</td><td>21.63</td></tr>
<tr><td>2</td><td>May’22</td><td>667.2</td><td>21.52</td></tr>
<tr><td>3</td><td>June’22</td><td>645.4</td><td>21.51</td></tr>
<tr><td>4</td><td>July’22</td><td>666.5</td><td>21.50</td></tr>
<tr><td>5</td><td>Aug’22</td><td>661.7</td><td>21.34</td></tr>
<tr><td>6</td><td>Sep’22</td><td>636.0</td><td>21.20</td></tr>
<tr><td></td><td>Average</td><td>654.28</td><td>21.45</td></tr>
</table>
</td><td></td></tr>
<tr><td>12</td><td>BEIL shall explore the possibilities for reuse of condensate water generated from MEE plant for landfill construction gardening and domestic purpose within the BEIL</td><td colspan="2">Complied.

Condensate water generated from MEE plant is being treated in the Effluent treatment plant having RO as tertiary treatment, then it is utilized for green belt and other industrial purpose.</td></tr>
<tr><td>13</td><td>Domestic wastewater and condensate water from the MEE shall be disposed-off as per the norms to be laid down by the GPCB</td><td colspan="2">Complied.

Soak pit & septic tank are provided to dispose domestic wastewater.
Condensate water generated from MEE plant is being treated in the Effluent treatment plant and then it is used for ~~green belt~~ green belt and other industrial purpose.</td></tr>
<tr><td>14</td><td>Enough care shall be taken to prevent any leakages/accidental spillages during conveyance of the effluent from the member units to the MEE</td><td colspan="2">Complied.

Enough care is being taken to prevent leakages/accidental spillages during conveyance of the effluent from the member units to the MEE.</td></tr>
<tr><td>15</td><td>Separate electricity meter shall be provided at the MEE. A Proper operation logbook of the MEE containing records of quantities and qualities of leachate from secured landfill site and effluent received from the member units, energy consumption etc. Shall be maintained and furnished to the GPCB from time to time.</td><td colspan="2">Complied.

Separate electricity `meter is provided at the MEE. A proper operation logbook of the MEE containing records is maintained. Leachate quality data are submitted in monthly patrak~~,~~ protocols, environment audit reports</td></tr>
</table>

<table>
<tr><td>16</td><td>Storage Tank of adequate capacity shall be provided to hold effluent for at least 48 hours in the case of either maintenance of the MEE or disturbances in MEE operations.</td><td>Complied.

Storage tanks of 450 KLD are provided to hold effluent in case of MEE maintenance.</td></tr>
<tr><td>17</td><td>In case of power failure standby DG set/s having power generation capacity equivalent to the requirement of power to run the MEE shall be installed, so that the MEE can be operated even in case of power failure</td><td>Complied.

According to our requirement we have installed 4 DG set, one 600 KVA and three 910 KVA capacity.</td></tr>
<tr><td>A.2</td><td colspan="2">AIR:</td></tr>
<tr><td>18</td><td>Natural gas to the tune of 440 Nm^3/day shall be used as a fuel in Boiler (5 T/Hr) and a stack of 30 m height shall be provided to Boiler</td><td>Complied. As per CC&A AWH – 120147 received on 01.08.2022, We are using Coal / Solid Fuel as fuel and the stack height is 30 m.</td></tr>
<tr><td>19</td><td>HSD to the tune of 3KL/Month shall be used as a fuel in D.G. Set [600 KVA] and a stack of 9.3m height shall be provided to D.G. Set</td><td>Complied.
As per CC&A the permission for Diesel consumption is 0.12 KL/hr i.e 86.4 KL/Month.
During (April’22 to September’22), Average HSD consumption is @ 4.1 KL/Month. Summary of the same as below.

<table><tr><td>Sr. No</td><td>Month</td><td>Total Consumption of HSD (KL/Month)</td></tr><tr><td>1</td><td>Apr’22</td><td>1.0</td></tr><tr><td>2</td><td>May’22</td><td>1.7</td></tr><tr><td>3</td><td>June’22</td><td>1.0</td></tr><tr><td>4</td><td>July’22</td><td>14.6</td></tr><tr><td>5</td><td>Aug’22</td><td>2.1</td></tr><tr><td>6</td><td>Sep’22</td><td>4.2</td></tr><tr><td></td><td>Average</td><td>4.1</td></tr></table></td></tr>
<tr><td>20</td><td></td><td>Complied.

We are monitoring DG set and boiler on monthly basis. The flue gas emission from DG set and boiler confirms to the standards prescribed by GPCB. At no time emission levels are going</td></tr>
</table>

<table>
<tr>
<td></td>
<td>The Flue gas emission from Boiler and D.G. Set shall conform to the standards prescribed by GPCB. At no time emission levels shall go beyond the stipulated standards</td>
<td>beyond the stipulated standards.
Reports are attached as ANNEXURE 7.

Summary Table: DG Stack Analysis (Apr’22 to Sep’22)
<table>
<tr><th>Sr. No.</th><th>Parameter</th><th>Min.</th><th>Max.</th><th>Avg.</th><th>Permissible Limit</th></tr>
<tr><td>1</td><td>SPM (mg/Nm)</td><td>60.11</td><td>62.02</td><td>60.77</td><td>150</td></tr>
<tr><td>2</td><td>SO_2 (ppm)</td><td>9.42</td><td>11.34</td><td>10.37</td><td>100</td></tr>
<tr><td>3</td><td>NOx (ppm)</td><td>21.02</td><td>21.78</td><td>21.37</td><td>50</td></tr>
</table>
Summary Table: Boiler Stack Analysis (Apr’22 to Sep’22)
<table>
<tr><th>Sr. No</th><th>Parameter</th><th>Min.</th><th>Max.</th><th>Avg.</th><th>Permissible Limit</th></tr>
<tr><td>1</td><td>SPM (mg/Nm)</td><td>40.56</td><td>52.91</td><td>47.91</td><td>150</td></tr>
<tr><td>2</td><td>SO_2 (ppm)</td><td>20.02</td><td>23.34</td><td>21.59</td><td>100</td></tr>
<tr><td>3</td><td>NOx (ppm)</td><td>18.09</td><td>20.89</td><td>19.57</td><td>50</td></tr>
</table>
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</tr>
<tr>
<td>21</td>
<td>Project proponent shall</td>
<td>Complied.</td>
</tr>
</table>

<table>
<tr><td></td><td>carryout periodical air quality monitoring in and around the site including VOC, HC. Locations of ambient air quality monitoring stations shall be fixed in consultation with the GPCB</td><td>Third party monitoring of ambient air quality including VOC and HC is carried out monthly.
In-house ambient air quality monitoring is also carried out monthly. Third party monitoring reports are attached as Annexure 8.

Table: Ambient Air (Apr’22 to Sep’22)
<table>
<tr><th>Sr. no.</th><th>Parameters</th><th>Unit</th><th>GPCB/ CPCB Permissible Limit</th><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>1</td><td>RSPM (PM_{10})</td><td>µg/m^3</td><td>100</td><td>54.8</td><td>74.23</td><td>63.7</td></tr>
<tr><td>2</td><td>$PM_{2.5}$</td><td>µg/m^3</td><td>60</td><td>24.73</td><td>35.83</td><td>30.91</td></tr>
<tr><td>3</td><td>Sulphur Dioxide</td><td>µg/m^3</td><td>80</td><td>8.86</td><td>10.85</td><td>10.97</td></tr>
<tr><td>4</td><td>Nitrogen Dioxide</td><td>µg/m^3</td><td>80</td><td>10.6</td><td>22.7</td><td>16.97</td></tr>
<tr><td>5</td><td>Ammonia (Nh_3)</td><td>µg/m^3</td><td>400</td><td>6.6</td><td>23.3</td><td>11.83</td></tr>
<tr><td>6</td><td>Lead as Pb</td><td>µg/m^3</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td>7</td><td>Nickel as Ni</td><td>ng/m^3</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td></tr>
<tr><td>8</td><td>Arsenic as As</td><td>ng/m^3</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td></tr>
</table></td></tr>
<tr><td>22</td><td>All transporting routes within the premises shall have roads to minimize fugitive emission</td><td>Complied.

All transporting routes within the premises are having cement roads to minimize fugitive emission. Proper housekeeping is being carried out in the plant on daily basis, truck tyre washing facilities is provided.</td></tr>
<tr><td>A.3</td><td colspan="2">SOLID / HAZARDOUS WASTES:</td></tr>
<tr><td>23</td><td>The proponent shall ensure that the TSDF fulfils all the provisions of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2008 and the design and the</td><td>Complied.

We are fulfilling all the provisions of Hazardous and Other Wastes (Management and Tran’s boundary Movement), Rules 2016 and its subsequent amendments. The design and the construction of secured landfill site is as per the guidelines of CPCB with proper leachate collection arrangement. Drawings are approved by IIT, Delhi and they are carrying out inspections.</td></tr>
</table>

<table>
<tr><td></td><td>construction of secured landfill site is as per the guidelines of CPCB with proper leachate collection arrangement.</td><td>IIT certificate is attached as ANNEXURE 2.
Summary of CPCB guidelines are attached as ANNEXURE 3.</td></tr>
<tr><td>24</td><td>Temporary hazardous waste storage area of about 4000MT capacity having impervious bottom and roof cover shall be provided as proposed.</td><td>Complied.

Temporary Hazardous waste storage area of capacity 40000 MT having impervious bottom and roof cover has been provided.</td></tr>
<tr><td>25</td><td>The project proponent shall not store the hazardous wastes more than the quantity that has been permitted by the CPCB/ Gujarat State Pollution Control Board.</td><td>Complied.

We are not storing hazardous waste (landfill waste) excepts during monsoon.</td></tr>
<tr><td>26</td><td>The main operational site shall be kept covered by tarpaulin with separate rain-water collection system during monsoon period.</td><td>Complied.

We are already following the same practice. We keep main operation site covered by tarpaulin with separate storm water collection system during monsoon period. We have submitted Monsoon Planning to the Regional Office, GPCB on 24.06.2022
Same is attached as ANNEXURE 9.</td></tr>
<tr><td>27</td><td>Salt from MEE and discarded bags shall be disposed in the secured landfill site</td><td>Complied.

Salt from the MEE are being disposed in the secured landfill. During this period (Apr’22 to Sep’22) total 3106 MT of MEE salt has been disposed in landfill.</td></tr>
<tr><td>28</td><td>BEIL shall explore possibilities with respect to reduction and reuse of hazardous waste generated by member units and received at the project site.</td><td>Complied.

We ensure to explore possibilities with respect to reduce and reuse of hazardous waste generated by member units and received at the project site. We have received authorization for decontamination of drums vide letter no. GPCB/HAZ-BRCH/B-CCA-143(I)/ID-40137/375053 dated 07.11.2016 to reuse and recycle discarded used drums.

Summary of drum receipt and decontamination is as below. (Apr’22 to Sep’22):

<table>
<tr><td>Month</td><td>DRUM RECEIPT</td><td>DRUM DECONTAMI</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td></td><td><table>
<tr><td></td><td></td><td>NATED</td></tr>
<tr><td>Apr’22</td><td>5307</td><td>4772</td></tr>
<tr><td>May’22</td><td>5371</td><td>4708</td></tr>
<tr><td>June’22</td><td>6780</td><td>7595</td></tr>
<tr><td>July’22</td><td>8219</td><td>8515</td></tr>
<tr><td>Aug’22</td><td>7049</td><td>7124</td></tr>
<tr><td>Sep’22</td><td>3798</td><td>5172</td></tr>
</table></td><td></td></tr>
<tr><td>29</td><td>Used oil shall be sold only to the registered recyclers.</td><td colspan="3">Complied.

In the period of Apr’22 – Sep’22 8 liter had been generated. We ensure to sell used oil only to registered recyclers.</td></tr>
<tr><td>A.4</td><td colspan="4">SAFETY:</td></tr>
<tr><td>30</td><td>All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of hazardous wastes.</td><td colspan="3">Complied.

We are taking all necessary precautionary measures to avoid any kind of accident during storage and handling of hazardous waste. Fire hydrants (storage capacity 250 KL), fire extinguishers are provided. Adequate PPEs are being provided to all the workers and employees, work permits are issued before starting any work and being closed after completing the work, on site emergency plan is also there which is updated on yearly basis. We are carrying out mock drills regularly.
Please refer Annexure 10
A) Ack copy of Onsite Emergency plan submitted to DISH
B) Onsite Emergency Plan
C) Ack copy of Mock Drill Report submitted to DISH</td></tr>
<tr><td>31</td><td>Handling And storage of wastes shall be done in such a manner that minimal human exposure occurs.</td><td colspan="3">Complied.

We ensure to handle and store waste in such a manner to minimize human exposure. The Hazardous waste stabilization and disposal to landfill is carried out with the help of the excavator and other machineries. MEE waste is also directly emptied to tanks from where it is carried through the pipelines.</td></tr>
<tr><td>32</td><td>All transportation of hazardous materials shall be as per motor vehicle Act & Rules</td><td colspan="3">Complied.

We have ensured that the transportation of the hazardous wastes to the TSDF confirms to the norms laid down in the hazardous and other wastes (management and handling) rules 2016 i.e. licensed and trained drivers, close and hydraulic dumpers, GPS enabled dumpers etc.
Total Approved 453 dedicated vehicles equipped with GPS system are being used for Transportation of Hazardous waste from member Industries to TSDF.</td></tr>
</table>

33	Hazardous materials storage shall be at an isolated designated location, bund/dyke walls shall be provided for storage tanks for hazardous Chemicals.	Complied. Storage sheds at isolated designated location with impervious floor & roof is provided with dyke wall. Storage tanks of adequate quantity are provided with dyke wall.
34	Personal Protective Equipment shall be provided to workers and its usage shall be ensured and supervised.	Complied. Personal Protective Equipment are provided to workers and its usage are being ensured and supervised.
35	First Aid Box and required Antidotes for the chemicals used in laboratory shall be made readily available in adequate quantity at all the times	Complied. First Aid Box (9 First aid box, at gate, at admin building, at lab at MCC room, at MEE control room, at Maintenance room, Control room G/F, at safety office are provided) and required Antidotes for the chemicals used in laboratory are made readily available in adequate quantity at all the times.
36	Training shall be given to all workers on safety and health aspect of handling hazardous wastes.	Complied. ➢ A training calendar is prepared in advance to inform everyone regarding the training dates. ➢ We try to ensure that all relevant employees are covered and maintain a record of personnel covered in each training. **Please refer Annexure 11:** A) Training calendar for 2020-21 & 2021-22 B) Training attendance sheets 2022 (Apr'22- Sep'22)
37	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act and Rules. Pre-employment and periodical medical examination for all workers shall be undertaken as per statutory requirement.	Complied We are carrying out pre-medical check-up of employees at the time of employment. BCA test of the workers are being done on every two-month, 3-month hemoglobin test and 6-month full body check-up and record for the same are maintained.
38	Project proponent shall prepare and implement an On-Site Emergency Management Plan and Disaster Management Plan	Complied. We've prepared and Implemented Onsite Emergency Plan and Disaster Management Plan. On-site emergency plan & disaster management plan is attached

<table>
<tr><td></td><td>(DMP) for the project as per the guidelines from Directorate of industrial Safety and Health. Adequate firefighting facilities shall be installed to handle the fire.</td><td>as ANNEXURE 10.

Fire hydrants (Existing storage capacity 250 KL), fire extinguishers are provided, and Pre-employment checkup are being carried out. BCA test of the workers are being done on every two month, 3-month hemoglobin test and 6-month full body check-up and record for the same are maintain</td></tr>
<tr><td>A.5</td><td colspan="2">NOISE:</td></tr>
<tr><td>39</td><td>The overall noise level in and around the premises shall be kept within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. On all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection Act 1986 & Rules)</td><td>Complied.

We ensure to keep noise level in and around the premises within the standard limit by providing noise control measures according to its requirement.

We are monitoring noise level monthly by third party and internally at all locations, which are well within the limit.

Reports are attached as ANNEXURE 12.

Summary Table: Noise (Day Time) (Apr’22 to Sep’22)
<table>
<tr><th>Sr. No</th><th>Place</th><th>Min</th><th>Max.</th><th>Avg.</th><th>Permissible Limit (dB)</th></tr>
<tr><td>1</td><td>Near Main Gate (dB)</td><td>60.5</td><td>68.4</td><td>64</td><td>75</td></tr>
<tr><td>2</td><td>Behind ADM Building (dB)</td><td>54.4</td><td>63.8</td><td>58</td><td>75</td></tr>
<tr><td>3</td><td>Near EB 1 Borewell (dB)</td><td>58.8</td><td>67.6</td><td>62</td><td>75</td></tr>
<tr><td>4</td><td>Nr. Monsoon Shed</td><td>60.8</td><td>66.8</td><td>64</td><td>75</td></tr>
<tr><td>5</td><td>B/H Landfill cell 4</td><td>48.2</td><td>61.2</td><td>54</td><td>75</td></tr>
<tr><td>6</td><td>Nr Drum shed area</td><td>65.9</td><td>70.6</td><td>68</td><td>75</td></tr>
<tr><td>7</td><td>Opp Khetan Ind</td><td>56.2</td><td>64.4</td><td>59</td><td>75</td></tr>
</table></td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>8</td><td>Nr Stab plant</td><td>60.4</td><td>67.8</td><td>64</td><td>75</td></tr>
<tr><td>9</td><td>Nr D.G Set</td><td>64.3</td><td>68.4</td><td>67</td><td>75</td></tr>
</table>
</td></tr>
<tr><td>A.6</td><td colspan="2">GREEN BELT AND OTHER PLANTATION:</td></tr>
<tr><td>40</td><td>Project proponent shall develop green belt all along the periphery of the TSDF as per the CPCB guidelines with plant species that are significant and used for pollution abatement. Drip irrigation system shall be used for the green belt for optimum utilization of the water resources.</td><td>Noted.
We are developing green belt around the periphery; we have also taken land for forestation of 80937.1 Sq meter.

Drip Irrigation system has been installed.

Please refer Annexure 13:
A) Layout showing plantation along the periphery.
B) Photographs of plantation along the periphery.
C) Photographs of Drip Irrigation at site.</td></tr>
<tr><td>41</td><td>BEIL shall also tie up with local agencies like gram panchayat, schools, social forestry office etc. For plantation at suitable open places in GIDC estate and nearby villages and shall submit an action plan of plantation for next five year to the GPCB</td><td>Complied.
➢ In consultation with the gram panchayat, an action plan of plantation for the next five years has been prepared. As per the action plan, BEIL will provide plants and tree guards for the locations mentioned by the gram panchayat.
➢ As per the action plan, we have planted 100 trees near Bhutnath temple, 20 trees at GEB Dahej, 50 trees near Badyadev temple in the year 2018 & 2019.
➢ We have also planted around 200 trees at Compost site in Dahej Village.
➢ BEIL has also done tree plantation in the following villages:
1800 nos near Kadodara
2800 in Vav village
2800 nos paniyadara
2800 nos Padariya
➢ We have also distributed tree guards at Gauseva trust Suva, Gram Panchayat at Nandarkha villages, Bhutnath charitable trust, Dahej Gram Panchayat, Kadodara Gram Panchayat.
Please refer Annexure 14:
A) Action plan for Tree Plantation
B) Tree Plantation at GEB office Dahej
C) Acknowledgement letters from villages for plantation already done by BEIL/UPL
D) Tree Guard Distribution to Nandarkha village Gram Panchayat.</td></tr>
</table>

		E) Tree Guard Distribution to Kadodara village Gram Panchayat. F) Photos of tree plantation at Compost site Dahej.

OTHER CONDITIONS:

Sr. No.	Description	Status
42	Project Proponent shall obtain necessary Authorization/ Consents from the Gujarat Pollution Control Board	Complied. We have received CCA renewal 109249 dated 14.09.2020 and it is valid up to 17.04.2025.
43	A separate Environment Management Cell equipped with full-fledged testing laboratory facilities shall be set up to carry out the environment Management and Monitoring Functions	Complied. A full-fledged, well qualified and experienced staff is appointed in the environment cell. The details are as given below: Environment Cell at Site: 1. Mr. Manoj Patel: Vice President – Project (BE Civil) 2. Ms. Rakshita Vyas: Senior Manager – Environment (M.Sc. Env. Science) 3. Mr. Satish Gaddam: Head, Environment Laboratory (M.Sc. in organic chemistry) 4. Atul Agrawal : Sr. General Manager (B.E. Mechanical and Post Diploma in Environmental Technology) Corporate Environment Cell: 5. 1. Mr. B.D. Dalwadi - CEO - (BE – Chemical) 6. 2. Dr. P N Parameswaran: Advisor – Environment (PhD Environment)
44	In the event of de-functioning of MEE receipt of effluent from member units shall be immediately stopped and they shall be intimated about the same. Effluent from the member units shall not be received until the desired efficiency of MEE has been achieved.	Complied. As and when the situation arises, we ensure to stop taking effluent from member units immediately and will start again only when desired efficiency of MEE will be achieved.

45	Adequate spares for waste and effluent collection, handling and transfer shall always be maintained.	Complied. Adequate spares for waste and effluent collection, handling and transfer are always maintained.
46	BEIL shall comply with all the provisions of CPCB guidelines for TSDF as may be applicable from time to time	Complied. We have complied all the provisions of CPCB guidelines for TSDF as applicable from time to time and in future also we shall comply. Summary of the guidelines Compliance is attached as **ANNEXURE 3**.
47	BEIL shall maintain accurate records of their member units in respect of quantity of each product manufactured quantities and qualities of waste & effluent generated booked & supplied to the TSDF & MEE on day-to-day basis and shall submit the complied records to the GPCB on monthly basis	Complied. We are submitting monthly report to GPCB office.
48	BEIL shall ensure that each & every member unit renews the agreement/ membership on before expiring of said agreement/membership and shall inform the GPCB about any unit not renewing the agreement/membership within stipulated period BEIL shall immediately inform the Gujarat Pollution Control Board termination/ suspension of membership of any member unit.	Complied. We ensure that each & every member unit renews the agreement/ membership on or before expiring of said agreement/membership and will inform the GPCB about any unit not renewing the agreement/membership within stipulated period. We ensure to immediately inform the Gujarat Pollution Control Board termination/ suspension of membership of any member unit.
49	BEIL shall instruct and make sure that each member unit provides effluent storage tank and hazardous waste storage area having adequate retention time.	Complied. As per our protocol, before giving membership, industries have to submit some details to BEIL in the prescribed membership form. One of the details asked for, is storage capacities of liquid and solid waste. We do not accept incomplete membership forms. Samples of our membership form and member's documents were shown at the

		time of visit from RO-MOEF, Bhopal. GPCB mentions a condition in every industry's CCA, that the industry needs to provide effluent storage tanks and hazardous waste storage area having adequate retention time. **Annexure – 15** A) Membership form – Landfill. B) List of members with their consent details & hazardous storage details C) Hazardous waste storage details of Bharat Rasayan, Diaichi, Fermenta Biotech, Insecticides Ltd.
50	BEIL shall not allow any new member or enhance waste / effluent quantity of existing members unless & until they have prior requisite permissions from competent authorities.	Complied. BEIL does not give membership without verifying the member's consent. We also have CCA copies of members. Samples of CCA copies of members. **Annexure – 15** B) List of members with their consent details.
51	Pucca flooring/ impervious layer shall be provided in the work area, chemical storage area and chemical handling area to minimize soil contamination	Complied. We have provided impervious flooring in the work area, chemical storage area and chemical handling area to minimize soil contamination.
52	Good Housekeeping shall be maintained within the premises. All pipes valves and drains shall be leak proof Leakages from the pipes, pumps shall be minimal and if occurs shall be arrested promptly. Floor washing shall be admitted into the effluent collection system for subsequent treatment and disposal through MEE	Complied. ➢ We ensure the housekeeping is good, and no major dusting is observed. We have also implemented 5S system, which is specially designed for good housekeeping practices. ➢ To ensure least leakages from pumps/motors/lines, preventive maintenance of the same is carried out on regular basis. ➢ Leakages from equipment & floor washing effluent is being collected in tank/pit & treated in MEE. **Please refer Annexure 16:** A) 5S Certificate of BEIL

53	During effluent transfer, spillages shall be avoided, and garland drain be constructed to avoid mixing of accidental spillages with storm water.	Complied. ➢ In case of spillage during transfer of effluent, the spilled effluent gets collected in the garland drain which has a collection pit at its end. From this collection pit, the effluent is transferred back to the feed tank for treatment in MEE. There is a separate effluent collection drain in the plant and is not connected to storm water drain. Similarly, there is a separate effluent collection drain/garland drain in all the plants and the spilled effluent is collected and transferred to MEE. Pictures depicting the same are attached. ➢ The main landfill site is kept covered during monsoon and no waste is added in this site during the period and hence there are no chances of contaminated run-off from landfill. Further, an IIT approved leachate collection system is developed and there is a garland drain around the leachate tank. The leachate from here is pumped to the storage tank which is provided with dyke wall. Therefore, no chances of any type of contamination from anywhere. Pictures & IIT approved leachate collection system layout attached. ➢ The outlet of storm water drain is equipped with a gate system and the water in the channel is checked daily. If at all, the water in the storm water channel is found contaminated then we pump it to MEE for treatment. Therefore, there are no chances of contaminated water going out of the premises. **Please refer Annexure 17:** A) Picture of plant showing separate garland drain & storm water channel. B) Picture showing garland drain, effluent collection chamber of drain and plant area. C) Leachate tank with dyke wall. D) Gate at the storm water channel outlet. E) Landfill Monsoon Covering Photographs. F) IIT Approved Leachate Collection

<table>
<tr><td></td><td></td><td>System.</td></tr>
<tr><td>54</td><td>Necessary measures shall be taken to prevent contamination of storm water from wastes/effluent handled at site. The storm water drains shall be kept separate and shall remain dry throughout the year except monsoon.</td><td>Complied.
Separate storm water drain is provided. If the storm water gets contaminated it is treated in our MEE plant.</td></tr>
<tr><td>55</td><td>BEIL shall intimate the GPCB about occurrence of any accident, act or event resulting in discharge of poisonous, noxious, or polluting mater or the likelihood of the same into a stream or land or well.</td><td>Complied.

Till date there has been no such incidence. We ensure to intimate GPCB about occurrence of any accident, act or event resulting in discharge of poisonous, noxious, or polluting mater or the likelihood of the same into a stream or land or well.</td></tr>
<tr><td>56</td><td>The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported.</td><td>Complied.

A separate account is maintained for environment protection and the cumulative amount is 786.50 Lacs till September 2022. These funds are not diverted for any other purpose.
A year wise expenditure on environmental safeguards is mentioned in the below table: -
<table><tr><th>Sr. No.</th><th>Year</th><th>Expense</th></tr><tr><td>1</td><td>2018 – 2019</td><td>13,40,242</td></tr><tr><td>2</td><td>2019 – 2020</td><td>30,90,150</td></tr><tr><td>3</td><td>2020 – 2021</td><td>1,70,76,593</td></tr><tr><td>4</td><td>2021- 2022</td><td>1,52,00,989</td></tr></table>This expenditure is informed to SPCB in Form 5 (ES) and are included in half yearly Compliance report being submitted to MoEF&CC.</td></tr>
<tr><td>57</td><td>All the issues raised in the public hearing shall be comprehensively addressed/ compiled with in a time bound manner.</td><td>Complied
All the issues raised in public hearing were addressed/complied on time.

Please refer Annexure 18:
Compliance Report of Public Hearing.</td></tr>
<tr><td>58</td><td>BEIL shall assign specific budget for socio-economic upliftment of the surrounding villages and shall undertake eco-developmental</td><td>Complied.</td></tr>
</table>

	measures including community welfare program most useful in the project area for the overall improvements of the environment in consultation with the District Development Officer/District Collector.	➢ We have donated Rs. 15000 to Bhutnath Charitable Trust and we are also providing monthly Stipend to Local villagers (Mr. Rajendra Parmar & Mr. Dinesh Ahir). ➢ Apart from that we have tied up with local Gram panchayat to develop a garden, costing Rs. 3.2 Lacs. ➢ We are also extending supporting hand when and where asked and required. ➢ We have also built a solid waste management site in Dahej village and the kitchen waste is collected from Dahej village and converted to fertilizer which is also distributed in the village and we have recruited 2 persons for the compost site also. ➢ We have also distributed dustbins at Dahej village under Swatch Bharat mission. ➢ Further, a total budget of Rs. 40 lakhs for the next 5 years have been allocated for socio economic upliftment to improve the overall environment. We shall be using this amount on various activities like providing sanitation, solid waste management, etc. The tentative break-up of Rs. 40 lakhs for the 5 years from 2018-19 are as under:

Year	**Rs. (Lakhs)**	**Expenditure (Lakhs)**
18-19	10	4.68
19-20	10	24.91
20-21	10	8.35
21-22	5	10.43

➢ A letter with our intention to contribute the above amount towards the socio-economic upliftment projects in co-ordination with District Collector/District Development Officer is submitted to the respective offices. Inward copy attached.

Please refer Annexure 19:

A) Inward copy of Letter submitted to DC/DDO offices
B) Photos of Compost Site built by BEIL in Dahej village as a Solid waste management program.

59	BEIL shall comply with all the recommendations as well as the environmental protection measures and risk mitigation measures/ safeguard proposed in the REIA report, Risk Assessment Report & Disaster Management Plan of the project.	Complied. We have complied with all the recommendations as well as the environmental protection measures and risk mitigation measures/ safeguard proposed in the REIA report & Risk Assessment Report of the project. EMP Compliance is attached as **ANNEXURE 20**.
60	In the event of a change in project profile or change in the implementation agency a fresh reference shall be made to the SEIAA/SEAC	Complied. Company name have been changed and the same has been incorporated in EC. The copies are attached as **Annexure – 21.**
61	BEIL shall thrive to obtain the ISO 14001 and OSHAS 18001 Certification	Complied. BEIL has implemented Environmental Management System Standards ISO 14001:2015 & ISO 45001:2018. Implementation of ISO 14001:2015 & ISO 45001:2018 has helped in improvement of the environmental protection and Safety. Copy of Certificate is attached as **ANNEXURE 22**.
62	The project manager shall extend full support to the officer of MOEF/GPCB during inspection of the project for monitoring purpose by furnishing full details and action plan including action reports in respect of mitigation measures and other environmental protection activities	Complied.
63	A six-monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of the MOEF and SEIAA regarding the implementation of the stipulated condition in hard and soft copies to the regulatory authority concerned on 1st June and 1st December of each calendar year	Complied. We have submitted six monthly report to the Regional Office of the MOEF and SEIAA regarding the implementation of the stipulated condition in hard and soft copies to the regulatory authority with our EC compliance report . Acknowledgement copy of the last submitted copies are attached as **ANNEXURE 23**.
64	The project proponents shall inform the Regional Office of MOEF at Bhopal as well as the SEIAA, the date of financial closure and	Complied We had informed the GPCB, Regional

<table>
<tr><td></td><td>final approval of the project by the concern authorities and the date of start of land development work.</td><td>Office of MOEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project vide letter No BEIL/DAHEJ/2015 dated 30.07.2014.
Same is attached as ANNEXURE 24.</td></tr>
<tr><td>65</td><td>BEIL shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.</td><td>Complied.

We are complying with conditions imposed by the SEAC or the SEIAA and in the future too shall abide by it. EC Compliance is submitted half yearly to the concern authorities (MOEF, CPCB, GPCB). All the conditions stipulated in the CCA are also complied.</td></tr>
<tr><td>66</td><td>No further expansion or modification in the plant likely to cause environmental impacts shall be carried out without obtaining proper Environmental Clearance from the concerned authority.</td><td>Complied.

We have received EC Dated 20.12.2018. For installation of 2 nos. of incinerators and capacity enhancement of existing landfill.</td></tr>
<tr><td>67</td><td>The project authority shall earmark adequate funds to implement the condition stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.</td><td>Complied.

A separate account is maintained for environment protection and the cumulative amount is 786.50 Lacs till September 2022. These funds are not diverted for any other purpose.
A year wise expenditure on environmental safeguards is mentioned in the below table: -
<table>
<tr><th>Sr. No.</th><th>Year</th><th>Expense</th></tr>
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</table>
This expenditure is informed to SPCB in Form 5 (ES) and are included in half yearly Compliance report being submitted to MoEF&CC.</td></tr>
<tr><td>68</td><td>The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and</td><td>Complied.

BEIL had received EC at site on 23rd Aug’13 and we had given advertisement in</td></tr>
</table>

	may also be seen at the Website of SEIAA/GPCB. This shall be advertised within seven day from the date of clearance letter, in at least two local newspapers that are widely circulated in the region. One of which shall be in Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the authority.	two local newspapers, namely, Times of India and Divya Bhaskar on 24th Aug'13 itself. **Annexure 25:** A) EC copy. B) Newspaper advertisements dated 24th August'13.
69	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Complied. All the conditions stipulated in the CC&A are complied.
70	The project authorities shall inform the GPCB Regional Office of MOEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied. We had informed the GPCB, Regional Office of MOEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project vide letter No BEIL/DAHEJ/2015 dated 30.07.2014. Same is attached as **ANNEXURE 24**.
71	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted
72	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional condition, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act 1974, Air (Prevention & Control of Pollution) Act 1981. The environment (Protection) Act 1986. Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2008 and the public Liability Insurance Act 1991 along with their amendments and rules.	Complied We are complying with conditions imposed by the SEAC or the SEIAA. EC Compliance is submitted half yearly to the concern authorities (MOEF, CPCB, GPCB). All the conditions stipulated in the CCA are also complied. We are having Public Liability Act Policy No. 1806012721P100990596 which is valid up to 30.04.2024. PLI Policy is attached as **Annexure 26**.
73	This environmental clearance is valid for five years from the date of issue.	Complied We have received EC vide letter no. SEIAA/GUJ/EC/7(d)/227/2013 dated 13.07.2013. We have got CCA renewal order no. AWH – 109249 issued on

		14.09.2020.
74	Any appeal against this environmental clearance shall be with the National Green Tribunal, if preferred within a period of 30 day as prescribed under Section 16 of the National Green Tribunal Act 2010	N. A

Compliance Status of Environmental clearance for Installation of Two Incinerators and Capacity Enhancement of Existing Landfill Facility at existing Common Hazardous Waste Treatment Storage and Disposal Facilities (TSDF) at Plot No. D-43, Dahej Industrial Estate, Tal. Vagra, Dist. Bharuch by M/s BEIL Infrastructure Limited for Period Apr' 21 to Sep'22.

1.CTE for Incinerator and landfill was received on 24.12.19

2.CC&A for one Incinerator has received on 10.08.22 (Plant and stabilization is under commissioning)

3. CC&A for landfill received on 01.08.2022 (cellwise CC&A has received)

<table>
<tr><th>Sr No.</th><th>EC Condition Details</th><th>Status</th></tr>
<tr><td>1</td><td>The proposal is for grant of environmental clearance to the project 'Installation of Two Incinerators and Capacity Enhancement of Existing Landfill Facility' at existing Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF) at plot number D-43, Dahej Industrial Estate, Taluka Vagra, District Bharuch by M/s BEIL Infrastructure Limited</td><td>Noted
We have installed one incinerator system.
We have received CCA No. 257200 on dated 10.08.2022 for One Incinerator.</td></tr>
<tr><td>2</td><td>The proposed project is Category "A "Common hazardous waste treatment, storage and disposal facilities (TSDFs) listed under activity 7 (d) as per EIA Notification dated 14th September 2006 as it is proposed to upgrade the facility integrated facilities having incineration & landfill.</td><td>Noted</td></tr>
<tr><td>3</td><td>Due to growth of chemical Industries in the Dahej industrial area, generation of hazardous waste Landfillable & incinerable waste has been increasing many folds. The existing secured landfill is likely to get exhausted much before planed period at the current rate of waste generation & disposal. Therefore, it is proposed to enhance the capacity of SLF from 14 lakhs MT to 19 lakhs MT and addition of two Incinerators. All the other facilities such as infrastructure, laboratory is already available at the existing site.</td><td>Noted</td></tr>
<tr><td>4</td><td>Details of existing and proposed facilities are as under:

<table><tr><th>Particular</th><th>Existing</th><th>Proposed</th></tr></table></td><td>Noted</td></tr>
</table>

	s			
	Land area	2,85,343.76 m^2	Nil	
	Secured landfill capacity	14 LMT	19LMT	
	Incinerator	Nil	2 Nos. 12 Million Kcal/hr	
	Water consumption	466 KLD	900 KLD	
	Power	475 KVA	1920 KVA	
	D.G.	1 no 600 KVA	3 nos. (910 KVA) capacity	
	Employment	Employee -23 Worker – 84	Construction phase 150 workman Operation phase: 60 workmen	
5	Water Consumption for the proposed project is 900 KLD and will be met from GIDC water supply			Shall be complied
6	Leachate/effluent from landfill will be treated in Multiple Effect Evaporator (MEE) plant. The wastewater from incinerator shall be used for quenching. Municipal spoil waste generated from the project shall be disposed as per MSW Rules, 2016.			Noted, Shall be complied. 1. Leachate treated in MEE 2. Wastewater from incinerator will be used for Quenching 3. MSW waste generated is sent for composting at CSR composting site of BEIL in nearby village.
7	Hazardous solid waste generated as the residue from MEE after treatment of leachate and residue ash generated from incineration of hazardous waste shall be disposed in the landfill. Transportation of hazardous solid waste is done as per guidelines of CPCB. The TSDF have approved transporter authorization with dedicated vehicle (hydraulics) for transportation of wastes.			Noted and shall be complied 1. The MEE salt is transported in the dedicated vehicle as per guideline. 2. Incinerator ash will be transported in the same way.
8	The proposed project shall be an important endeavor to mitigate the degradation of environment in the			Noted

	region.	
9	TOR for the proposed project was approved by MOEF & CC on dated 26th October 2016 vide Letter no F.No. -10-43/2016-1A-III.	Noted
10	Public Hearing was exempted vide amendment in TOR issued vide letter dated 14th May 2018, as Dahej Industrial Estate of GIDC is a part of Development of Petroleum, Chemical and Petro-chemical Investment Region (PCPIR) Dahej, Dist. Bharuch. The PCPIR has already obtained Environmental Clearance on 17th September 2017 vide letter 21-49/2010/-1AIII for the entire industrialized region. The Public hearing for the same was also conducted on 30th July 2014.	Noted
11	Investment/Cost of the project is approx. Rs. 64 Crore	The actual investment cost of the project is Rs.109.02 Crores for one incinerator and 30 lac for Landfill till Oct'22.
12	Benefits of the project: There will be a positive environmental impact by collecting and disposing the hazardous waste in the scientific manner that will reduce the future health hazard. It is expected that additional people will get employment and hence job opportunities for the local people as well as migrants from nearby areas would increase.	Noted
13	Employment potential: About 150 persons (construction phase) & 60 persons (operational phase).	Noted Total numbers of employees are 50. We have 182 persons (construction phase) & 216 persons (operational phase)
14	The project/activity is covered under category 'A' of item 7(d) Common hazardous waste Treatment, Storage and Disposal Facilities (TSDFs) of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at Central Level.	Noted
15	The EAC, in its 35th meeting held on 29-31 October 2018, deliberated on the proposal including certified	Noted

	compliance report letter No. 18-A-96/2013(Parya)/943 dated 28.08.2017 (inspection done on 06.06.2017) issued by the MOEF &CC's Regional Office (Western Region), Bhopal. The EAC, on being satisfied with the submissions of the project proponent, recommended the project for grant of environmental clearance to the project. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project `Installation of Two Incinerators and Capacity Enhancement of Existing Landfill Facility at existing Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF) at plot number D-43, Dahej Industrial Estate, Taluka Vagra, District Bharuch by M/s Bharuch Enviro Infrastructure Limited, under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the specific and general conditions as under: -	
A. 1	**SPECIFIC CONDITIONS**	
1	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act,1974.	complied We have obtained CTE on 24.12.2019.
2	The Project proponent should ensure that the TSDF fulfils all the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016.	Shall be complied
3	Ground water abstraction shall be as prescribed by the CGWA. A clearance/permission of the CGWA shall be obtained in this regard.	Shall be complied Currently we are using only GIDC water.
4	It shall be ensured that all the trees and other plantation are of the non-edible varieties and do not in any way encourage the incorporation of toxic materials in the food chain.	Complied We are ensuring that trees and other plantation are of non-edible varieties. A few species are Conocarpus, Champa, Neem, Karan, Pipal.
5	The TSDF should only handle the	Complied

	waste generated from the member units.	We accept waste only of member units, who have valid CC&A obtained from GPCB. At present we are having 1031 members for Landfill. In support of this we are submitting returns to GPCB.
6	As proposed, air pollution control device viz. gas quencher; treatment with mixture of hydrated lime and activated powder for adsorption of partial acidity and VOCs (if any); bag-filter/ESP for removal of particulate matter; ventury scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gas; and demister column for arresting water carry over will be provided to the incinerator. Online pollutant monitoring shall be provided as per CPCB guidelines for monitoring particulate matter, SO2, Nox and CO from the incinerator stack. The periodical monitoring of Dioxins and Furans in the Stack emissions shall be carried out.	Complied. We have installed one inc with Rotary kelin , secondary combustion chamber, Air pollution system including bag filter, Scrubber and CEMS. 1. APCD like Spray dryer absorber, Bag filter, wet scrubber and Demister are installed in Incinerator. 2. Online monitoring for SO2, Nox and CO provided as per CPCB guidelines. 3. Dioxins and Furans emission will be monitored carried out periodically.
7	Analysis of Dioxins and Furans shall be done through CSIR — National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram or equivalent NABL Accredited laboratory.	Shall be complied. Once the plant is ready for regular operation analysis for dioxin and furan shall be carried out through NABL accredited laboratory.
8	The project proponents shall adhere to all conditions as prescribed in the Protocol for 'Performance Evaluation and Monitoring of the Common Hazardous Waste Treatment, Storage and Disposal Facilities' published by the CPCB in May 2010.	Complied. We are submitting protocol regularly. Condition for landfill are fulfilled and incinerator will be incorporated after plant commissioning.
9	Incinerator shall be designed as per CPCB guidelines. Energy shall be recovered from incinerator.	Complied. Incinerator is designed as per the CPCB guidelines. We have a WHRB attached in Incineration. The steam generated from heat recovery boiler shall be used to operate the MEE.
10	Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board / CPCB. Trend analysis of iit quality shall be carried out each season and information shall be submitted to the	Complied. We have total 4 monitoring (1 up-stream and 3 down-stream) wells installed around the landfill. Analysis of Monitoring well is done once in Month (internally & by third party). Those report are submitted to SPCB in monthly report and at MoEF&CC & CPCB/SPCB in protocol.

<table>
<tr><td></td><td>SPCB and the Regional Office of MOEF&CC.</td><td></td></tr>
<tr><td>11</td><td>Ambient air quality monitoring shall be carried out in and around the landfill site at up wind and downwind locations.</td><td>Complied
We are regularly monitoring the ambient air quality around the landfill at up-wind and down-wind directions internally and by third party on monthly basis. Results of monthly carried out by Third party are attached as Annexure – 1

Ambient results:
<table>
<tr><th>Sr. no.</th><th>Parameters</th><th>Unit</th><th>GPCB/CPCB Permissible Limit</th><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>1</td><td>RSPM (PM_{10})</td><td>$\mu g/m^3$</td><td>100</td><td>54.8</td><td>74.23</td><td>63.7</td></tr>
<tr><td>2</td><td>$PM_{2.5}$</td><td>$\mu g/m^3$</td><td>60</td><td>24.73</td><td>35.83</td><td>30.91</td></tr>
<tr><td>3</td><td>Sulphur Dioxide</td><td>$\mu g/m^3$</td><td>80</td><td>8.86</td><td>10.85</td><td>10.97</td></tr>
<tr><td>4</td><td>Nitrogen Dioxide</td><td>$\mu g/m^3$</td><td>80</td><td>10.6</td><td>22.7</td><td>16.97</td></tr>
<tr><td>5</td><td>Ammonia (Nh_3)</td><td>$\mu g/m^3$</td><td>400</td><td>6.6</td><td>23.3</td><td>11.83</td></tr>
<tr><td>6</td><td>Lead as Pb</td><td>$\mu g/m^3$</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td>7</td><td>Nickel as Ni</td><td>ng/m^3</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td></tr>
<tr><td>8</td><td>Arsenic as As</td><td>ng/m^3</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td></tr>
</table></td></tr>
<tr><td>12</td><td>The depth of the land fill site shall be decided based on the ground water table at the site and may be such as permitted by the Pollution Control Board.</td><td>Complied
Ground water table at the project site has been ascertained through the GWRDC before initiating construction of secured landfill site. The depth of the secured land fill site has been decided based on the ground water level at the site and bottom of the secured landfill site is 7.5 (> 2 m as per landfill criteria) meter above the ground water table.</td></tr>
<tr><td>13</td><td>Environmental Monitoring Programme shall be implemented as per EIA report and guidelines prescribed by CPCB for hazardous waste facilities. Periodical ground water/soil monitoring to check the contamination in and around the site shall be carried out.</td><td>Complied.
1. Implementation of EMP is done stagewise and its status is attached as Annexure- 2.
2. Water and soil monitoring is done regularly in and around the site and results are attached as Annexure-3.</td></tr>
</table>

Summary Table: Ground Water (April'22 to September'22)

Sr. No	Parameter	Unit	Average of Up-stream borewell	Average of down-stream	Average of outside premises
1	pH		7.24-7.69	7.43-7.6	7.48-7.89
2	Conductivity	mmhos/cm	54.64	51.61	0.74
3	Turbidity	NTU	1.50	1.31	0.41
4	TSS	mg/l	13.33	9.79	ND
5	TDS	mg/l	35513.66	33495.94	478.00
6	TOC	mg/l	7.64	6.99	ND
7	Colour	Co-pt	12.66	10.78	4.61
8	COD	mg/l	73.66	67.00	ND
9	Chloride	mg/l	16011.6	14696.39	187.77

Summary Table: Soil Analysis (Post-Monsoon)

Sr No	Parameters	pH	Conductivity (umho/cm)	TDS (%)	TOC (%)
1	Nr EB-1	8.43	2287	1.26	0.73
2	Opp Salt Farm	8.41	3938	1.92	0.87
3	Nr EB-2	8.53	1874	1.68	0.45
4	Opp. Khetan Ind	8.25	3093	1.42	0.53
5	Nr ADM	8.43	1712	1.13	0.57
6	Behind Tegros	8.64	2739	1.32	0.93

14	The Company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.	Complied. If any spillage occurs immediately, we have to inform the concern person and safety officer. The spillage must be cleaned up in safe manner.

15	On-line real time continuous monitoring facilities shall be provided as per the CPCB or State Board Directions.	Shall be complied. We have provided on-line real time continuous monitoring facilities, the server will be connected to CPCB once the plant is commissioned
16	No non-hazardous wastes, as defined under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, shall be handled in the premises.	Complied Only Hazardous waste is handled at the site.
17	Gas generated in the Landfill should be properly collected, monitored and flared.	Complied. Gas monitoring is done monthly and the results are attached as Annexure - 4
18	Project Proponent shall develop green belt with native plant species that are significant and used for the pollution abatement. At least 10 m thick greenbelt shall be developed in the periphery of hazardous waste facility.	Noted. We are developing green belt around the periphery; we have also taken land for forestation of 80937.1 Sq meter and the letter of the same is attached as Annexure- 5.
19	Project should ensure that the site is properly cordoned off from general movement and no unauthorized person or goods permitted to enter the premises. Necessary security provision should be made as a condition in the Authorization under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 to prevent unwanted access.	Complied We have ensured that the project is properly cordoned off from general movement and no unauthorized person or goods permitted to enter the premises. Necessary security provision are also provided.
20	Pre-medical check-up to be carried out on workers at the time of employment and regular medical record to be maintained.	Complied We are carrying out pre-medical check-up of employees at the time of employment. BCA test of the workers are being done on every two-month 3-month hemoglobin test and 6-month full body check-up and record for the same are maintain.
21	Emergency plan shall be drawn in consultation with SPCB/CPCB and implemented in order to minimize the hazards to human health or environment from fires, explosion or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water.	Complied Onsite emergency plan is submitted to factory inspector every year.
22	Rain-water runoff from the landfill area and other hazardous waste management area shall be collected and treated in the effluent treatment	Complied If any contaminated run-off, if any, is collected and treated in the in-house MEE plant.

<table>
<tr><td></td><td>plant.</td><td></td></tr>
<tr><td>23</td><td>The Project proponent shall not store the Hazardous Wastes more than the quantity that has been permitted by the CPCB/SPCB.</td><td>Complied.

Landfillable hazardous waste is stored only during monsoon. Incinerable waste will be stored as per CPCB guideline/SPCB guideline.</td></tr>
<tr><td>24</td><td>As per the Ministry’s Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and as proposed, a fund of Rs. 0.40 Crore @ 1% of project Cost, shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as sanitation, solid waste management and rainwater harvesting etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.</td><td>Complied.

As per the project cost, we will utilize 1% as CER fund. During the FY . 2019 -20 and F.Y. 2021-22 we have spent 35,88,243 amount as CER.

This monitoring report is submitted to regional office as a part of half yearly compliance report and posted on Website.</td></tr>
<tr><td>B</td><td>GENERAL CONDITIONS</td><td></td></tr>
<tr><td>1</td><td>A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries Centre and Collector’s Office/ Tehsildar’s office for 30 days.</td><td>Noted.</td></tr>
<tr><td>2</td><td>The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.</td><td>Complied.

A separate account is maintained for environment protection and the cumulative amount is 786.50 Lacs till September 2022. These funds are not diverted for any other purpose.
A year wise expenditure on environmental safeguards is mentioned in the below table: -
<table>
<tr><th>Sr. No.</th><th>Year</th><th>Expense</th></tr>
<tr><td>1</td><td>2018 – 2019</td><td>13,40,242</td></tr>
<tr><td>2</td><td>2019 – 2020</td><td>30,90,150</td></tr>
</table>
</td></tr>
</table>

		<table><tr><td>3</td><td>2020 – 2021</td><td>1,70,76,593</td></tr><tr><td>4</td><td>2021- 2022</td><td>1,52,00,989</td></tr></table> This expenditure is informed to SPCB in Form 5 (ES) and are included in half yearly Compliance report being submitted to MoEF&CC. Form – 5 for the period Apr'21 – Mar'22 is attached as Annexure- 6
3	Officials from the Regional Office of MOEF &CC, Bhopal who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities, and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MOEF & CC shall be forwarded to the APCCF, Regional Office of MOEF & CC, Bhopal.	Noted
4	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Noted
5	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted
6	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Complied. Statutory clearances as applicable are obtained.
7	These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the	Noted

	EIA Notification, 2006.	
8	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at http://www.envfor.nic.in. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Bhopal.	Complied. BEIL had received EC on 19th Dec 2018 and we had given adv in three newspapers namely, Divya Bhaskar, Sandesh and Times of India on 21st Dec'18. **Annexure 7:** A) EC copy. B) Newspaper advertisements dated 21st December'18
9	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted
10	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad /Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied We have sent the clearance letter to the nearby panchayat's, municipal corporation, and local NGO. Letter is attached as **Annexure – 8.**
11	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; $PM_{2.5}$, PM_{10}, SO_2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate	Complied. 1. We are submitting six-monthly report regularly for all ECs conditions sent to the RO of MOEF&CC, the respective Zonal Office of CPCB and the SPCB and the same we upload on our website. 2. A digital display board is provided at the main gate indicating all parameters which is open to public.

	of the company in the public domain.	
12	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MOEF& CC by email.	Complied Every year we are submitting the Environmental Statement (Form – V) to the GPCB Regional Office Bharuch and to GPCB Gandhinagar. It is uploaded on the website of the company as a part of 6 monthly comply report. We will mail to MoEF&CC.

Landfill Site
Annexure-1

GUJARAT WATER RESOURCES DEVELOPMENT CORPORATION LTD., GANDHINAGAR.

OFFICE OF THE GEOHYDROLOGIST
GROUND WATER DIVISION NO.1,
REGIONAL DATA PROCESSING CENTRE,
VASANA BARRAGE CAMPUS, VASANA,
AHMEDABAD – 380 007.
TEL.NO. 079-26604027 FAX NO. 079-26609803
Email : ghdvn1@gmail.com

No.GWDn.1/PB/Deposit/Gen/ 637 /2012
Date: 27 / 04 / 12

To,
The Dy.General Manager
Bharuch Enviro. Infrastructures Ltd.,
Plot No.9701-16, GIDC Estate, P.B.No.82,
ANKLESHWAR – 393 002.

Sub:- Geohydrological survey at Bharuch Enviro. Infrastructures Limited, Dahej, Plot No.43, Dahej-1 Campus.
Ref:- Your's office letter dated 31/01/12.

Dear Sir,

With reference to above subject find herewith Geohydrological Investigation Report at Dahej, Taluka-Vagara, District-Bharuch under deposit work.

D.A.: As above.

GEOHYDROLOGIST
G.W.DIV.NO.1,
AHMEDABAD.

Copy submitted to:
- The Superintending Engineer, GWMI Circle, Gandhinagar for information please.DA: A/a.

Copy to:
- The Geologist, G.W.Sub.Dn.No.2, Vadodara in reference to your letter No.GWDn.1/PB/Deposit work/143/12, dated 20/04/12.

== Save Water ==

F:\PD\Word\Depo Work.doc

B. E. I. L.
05 MAY 2012
Inward No. 292
Time 12:30 Sign.

BRIEF REPORT ON

GEOHYDROLOGICAL CONDITIONS AROUND BEIL, DAHEJ GIDC AREA, TALUKA VAGRA DISTRICT BHARUCH

(April -2012)

GEOHYDROLOGIST
REGIONAL DATA CENTRE
VASNA BARRAGE
VASNA
AHMEDABAD

A BRIEF REPORT ON GEOHYDROLOGICAL CONDITIONS AROUND DAHEJ GIDC AREA, TALUKA VAGRA DISTRICT BHARUCH

AIM OF STUDY

Bharuch Enviro Infrastructure Ltd. has asked for Geohydrological Condition in & around Village Dahej GIDC area to study the ground water flow direction, details of aquifers and level of Ist, IInd & IIIrd aquifers based on sub-surface geology of the area in their proposed Landfill site at Dahej GIDC as per letter No. GWDn.1/ PB/Deposit work/ 293/ 2012, Dated : 28/02/2012.

INTRODUCTION

Geohydrological investigation was carried out at Village Dahej-GIDC area and based on these investigation details of existing ground water structures such as Tube Well, Bore Well & Open Well and on long term seasonal water level fluctuations of the area ,were studied and based on these data this report has been prepared.

LOCATION AND EXTENT

GIDC Area is situated at Village Dahej in the South Western part of Vagra Taluka. The study area covering GIDC lies between 72^{0} 32' 50" to 72^{0} 37' 40" East longitude and 21^{0} 40'41" to 21^{0} 44'59" North latitude covered under Survey of India Topo sheet No. 46 C/10. The total geographical area of the Village Dahej is 30.02 Sq.Kms. The Dahej Village is connected by State Highway Bharuch-Dahej broad gauge railway line Samni-Dahej. (Plate-1)

PHYSIOGRAPHY

The topography of the area is mainly plain with general slop towards Northwest and West direction.

DRAINAGE

The drainage of the area is controlled mainly by Gulf of Cambay.

CLIMATE

The area having tropical climate with summer season from mid March to mid June with maximum temperature up to 42^{0} , Winter season from November to February with minimum temperature up to 12^{0} and Monsoon season from mid June to October. The long term average rainfall of the taluka is 674 mm for the perind 1963 to 2010 and short term average rainfall is 883 mm from 2002 to 2010.

GEOLOGY

Geologically the area comprises of alluvial formations of Recent to Sub Recent age. The geological succession in stratigraphical order is mentioned below.

ERA	PERIOD	AGE	LITHOLOGY
Cenozoic	Quarternary	Sub-Recent to Recent	Alluvium consisting of Sand & Clay Beds
	Tertiary	Lower Miocene	Clay

The alluvium deposit of Sub-Recent to Recent age is observed in the area. It consists of alternate bands of Yellowish brown clay and fine to coarse grained sand. The Tertiary formation consists of clay underlies the alluvium.

As the area is under the influence of sea water intrusion no efforts has been made by local farmers or existing industries for ground water exploration. GWRDC has drilled one piezometer at Village Dahej under Hydrology Project and drilled one more piezometer at Village Atali under Narmada Canal Command Area. However to know aquifer deposition in the BEIL area it is necessary to construct exploratory bore well.

GEOHYDROLOGY:

The main hydrological unit in the area is alluvium formation. The alluvium formation mainly comprises of alternate bands of sand & clay. The sand formation consists of medium to fine grained and works as aquifer. The ground water in area is highly saline so no efforts have been done to extract ground water.

Two Piezometers are constructed by GWRDC under different projects in this area .At Atali piezometer ,the depth to water level varies from 2.60 mts to 6.60mts, which has the depth of 12.00 Mts. At Dahej Piezometer having depth of 38.38 Mts, depth of water level ranges from7.65 to 9.96 mts(Statement no I) for year 2007-2011. BEIL has drilled two nos of shallow bore well with a depth of 25.00 Mts. each. Water level observed in BEIL bore well is 8.50 Mts to 7.90 Mts.

GROUNDWATER FLOW:

The general observation reveals that the flow of the groundwater generally controlled by topography of the area. As no efforts has been made to extract ground

water due to high salinity it is assumed that ground water generally follow the topography of the area and at Dahej village the topography is slopping towards Northwest and West direction so ground water flow should be towards Northwest and West direction.

GROUNDWATER SEASONAL FLUCTUATIONS:

To study the groundwater seasonal fluctuation in the area, the statement showing water level fluctuation of the existing monitoring station from the year 2007 to 2011 is studied. (Table No.I) The minimum water level ranges from 2.60 Mts. observed at village Atali of Vagra Taluka to 9.90 mts. at village Daheji of Vagra Taluka. The average seasonal fluctuation observed is 1.62 Mts to 2.39 Mts in the area.

GROUND WATER QUALITY:

To study the ground water quality water samples are collected from existing bore well constructed by BEIL in their premises which indicate TDS 5110 ppm the higher values of TDS is observed at BEIL Bore well with a depth of 25.00 Mts which indicates that aquifer is saline with respect to TDS value. At Village Atali the TDS value ranges from 230 ppm to 570 ppm while at Village Dahej TDS value range from 3470 ppm to 4030 ppm. It is observed that higher values of TDS are observed at higher depth.

CONCLUSIONS:

(1) Ground water level in the area ranges from 2.60 Mts to 9.90 Mts. bgl in the study area.

(2) Ground water level fluctuation ranges from 1.62 Mts to 2.39 Mts.

(3) From existing data of Piezometer constructed in study area it is presumed that first aquifer starts from 7.00 Mts to 12.00 Mts, second aquifer from 28.00 Mts to 37.00 Mts, whereas no information available for third aquifer as no structure is observed with higher depth.

RECOMMANDATIONS:

Based on existing bore well data and geohydrological investigation carried out in area, there are two aquifers at different depths. To know the exact depth of different aquifer in the study area, it is recommend to drill exploratory bore well with a depth of 60.00 Mts, or until the third aquifer is encountered in South East portion of the study area. (Plate-II) The bore well should be electro logged at pilot stage.

The specification of exploratory bore well is mentioned below.

Sr.No.	Bore No.	Bore Detail	Diameter in mm	Depth in Mts.
1	E-1	Exploratory	200 mm	60.00

Depending on the litho log of exploratory bore well, it is recommended to drill 3 nos. of piezometer nests with varying depth from 20.00 Mts to 60.00 Mts. tapping different aquifers. The distance between the three different piezometer should be kept at least 15.00 Mts.

The details of set of bores comprising one piezometer nest to be drilled are mentioned below.

Sr.No.	Bore No.	Bore Detail	Diameter in mm	Depth in Mts.
1	P-1	First aquifer piezometer	150 mm	20.00
2	P-2	Second aquifer piezometer	150 mm	45.00
3	P-3	Third aquifer piezometer	150 mm	60.00

****

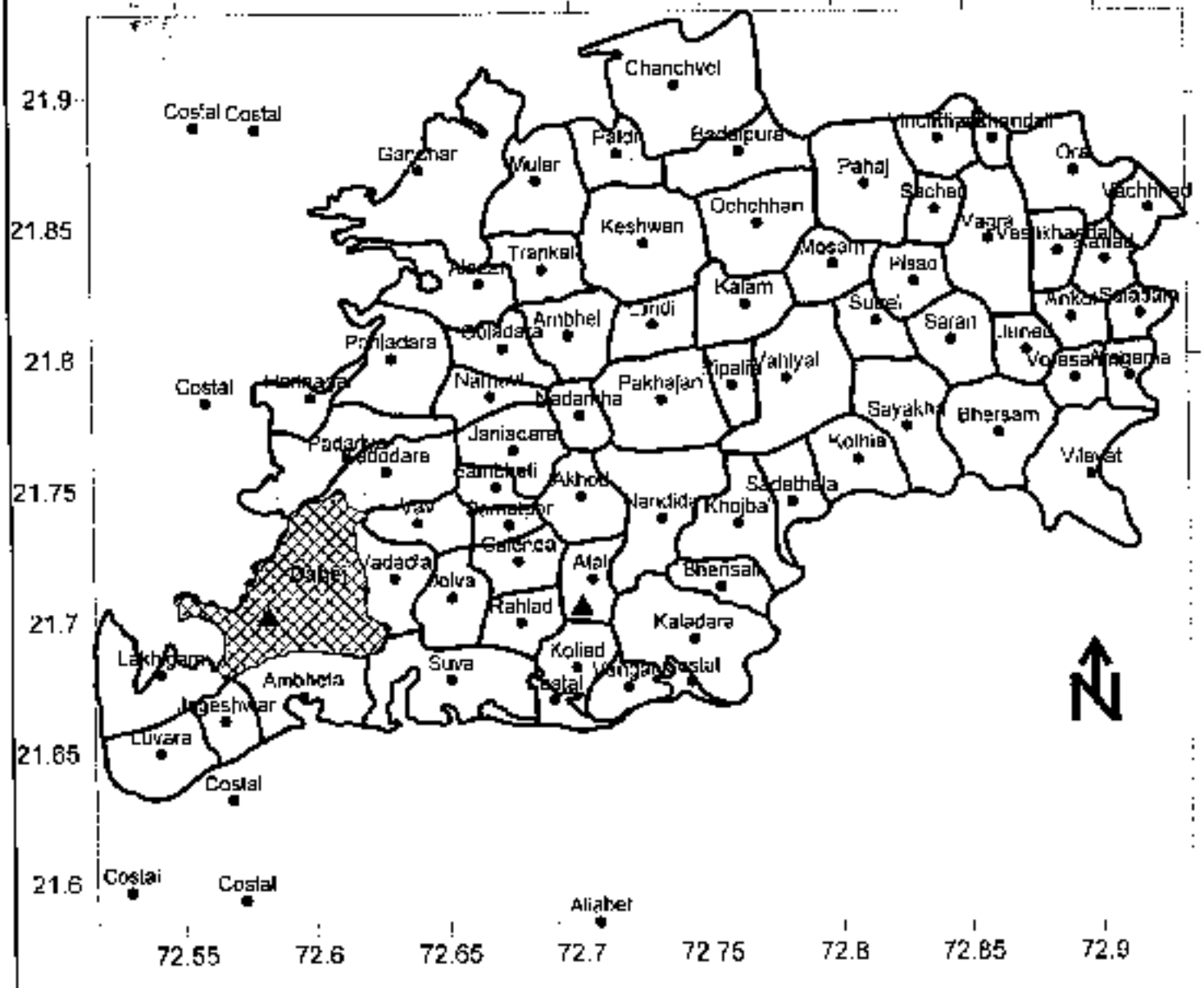
Statement No I

STATEMENT SHOWING WATER LEVEL AND QUALITY OF PIEZOMETERS DRILLED FOR LAST FIVE YEARS

Month/Year	VILLAGE ATALI			VILLAGE DAHEJ		
	Water Level	Rise /fall	TDS in PPM	Water Level	Rise /fall	TDS in PPM
May-07	5.41	2.30	****	9.00	1.20	4010
Oct-07	3.11		430	7.80		3830
May-08	5.10	1.80	****	9.23	0.77	3730
Oct-08	3.30		440	8.46		3860
May-09	4.98	1.14	380	9.16	0.52	4030
Oct-09	3.84		370	8.64		3760
May-10	5.70	3.10	570	9.50	3.35	3960
Oct-10	2.60		440	6.15		3920
May-11	6.60	3.60	490	9.90	2.25	3470
Oct-11	3.00		230	7.65		3690
Average		2.39			1.62	

Plate-I

LOCATION PLAN OF VILLAGE DAHEJ TALUKA VAGRA DIST.BHARUCH



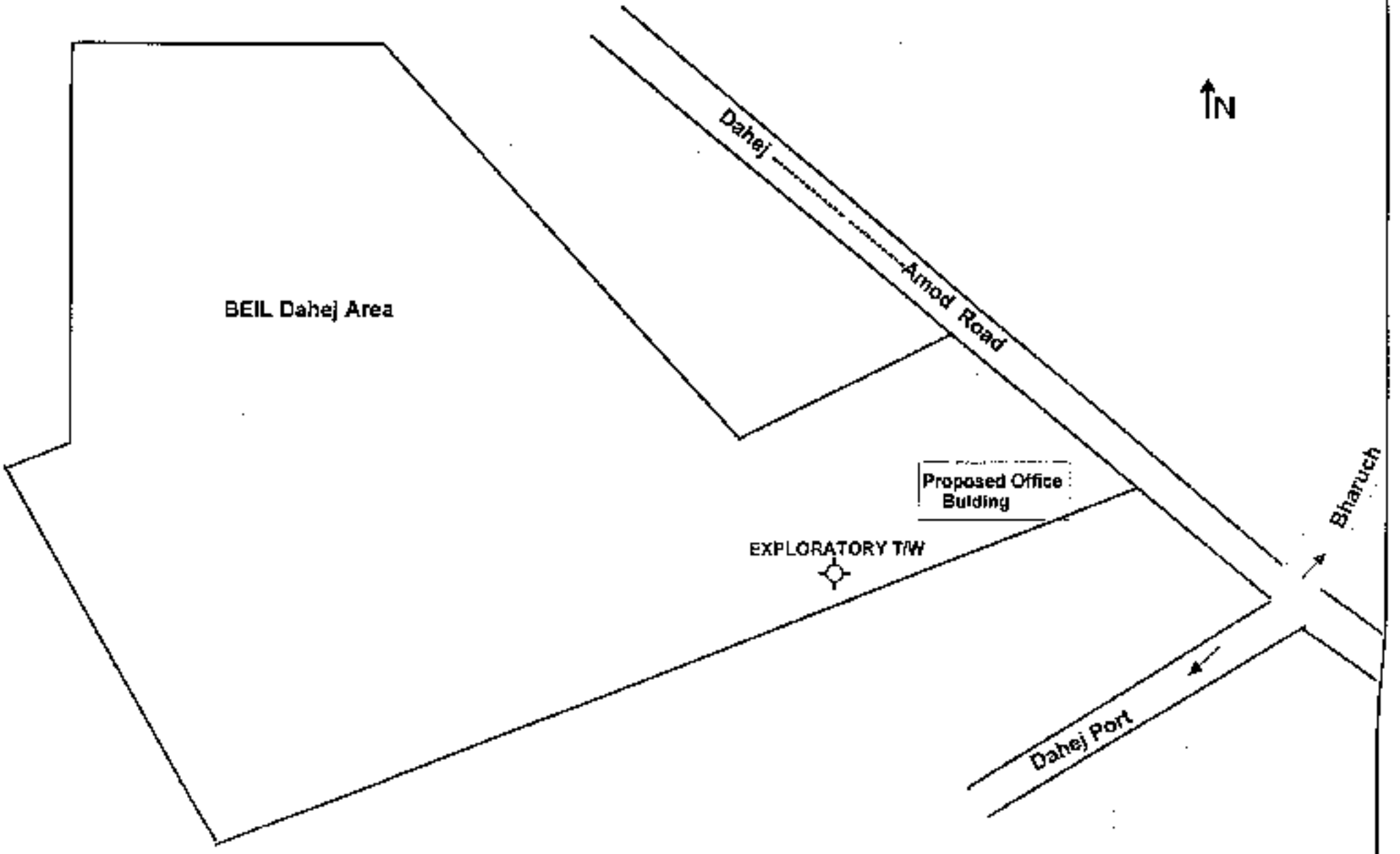
INDEX

VILLAGE DAHEJ

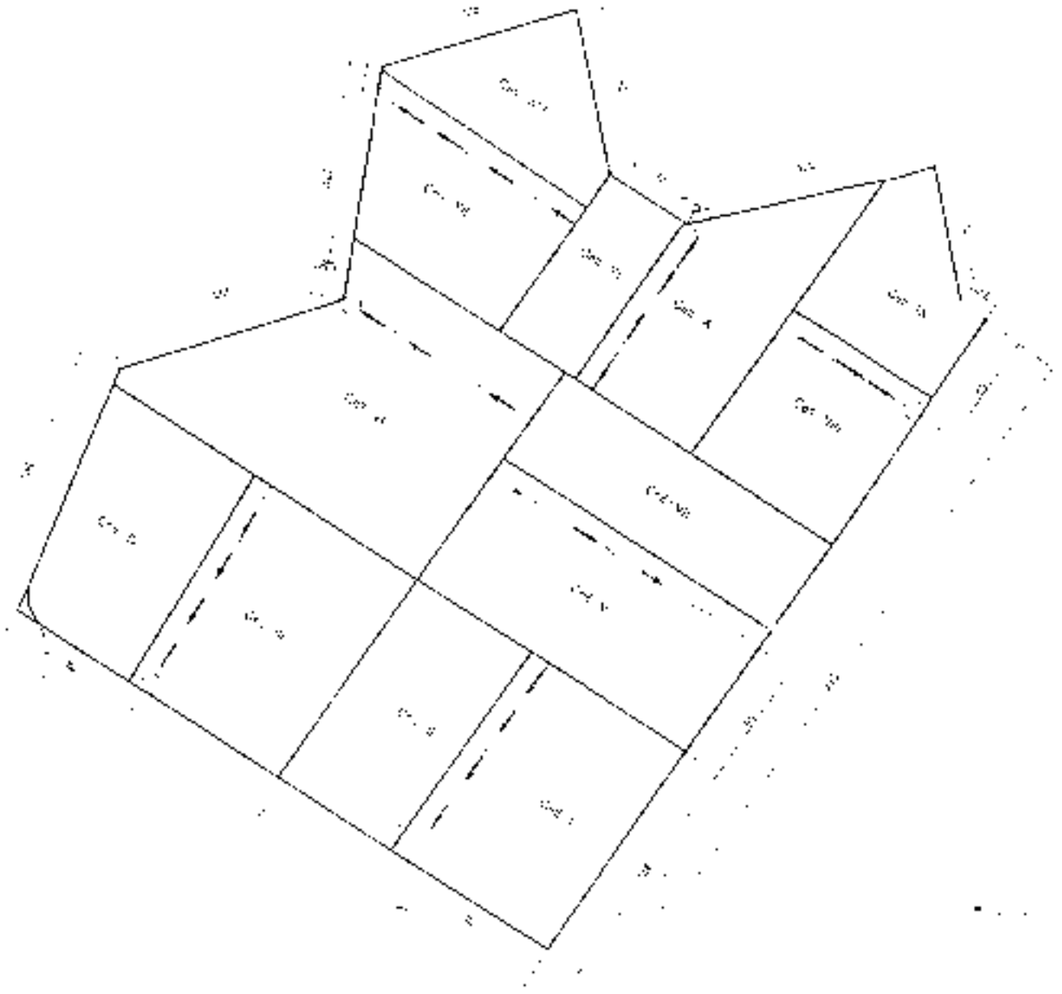
MONITORING PIEZOMETER

Plate-II

LOCATION PLAN FOR PROPOSED EXPLORATORY TUBE WELL AT BEIL SITE DAHEJ -TALUKA- VAGRA DIST.-BHARUCH



Annexure 2



PLAN OF YEARLY PHASES OF LANDFILL

PLAN OF YEARLY PHASES OF LANDFILL

CONSTRUCTION OF SECURED LANDFILL FACILITY

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

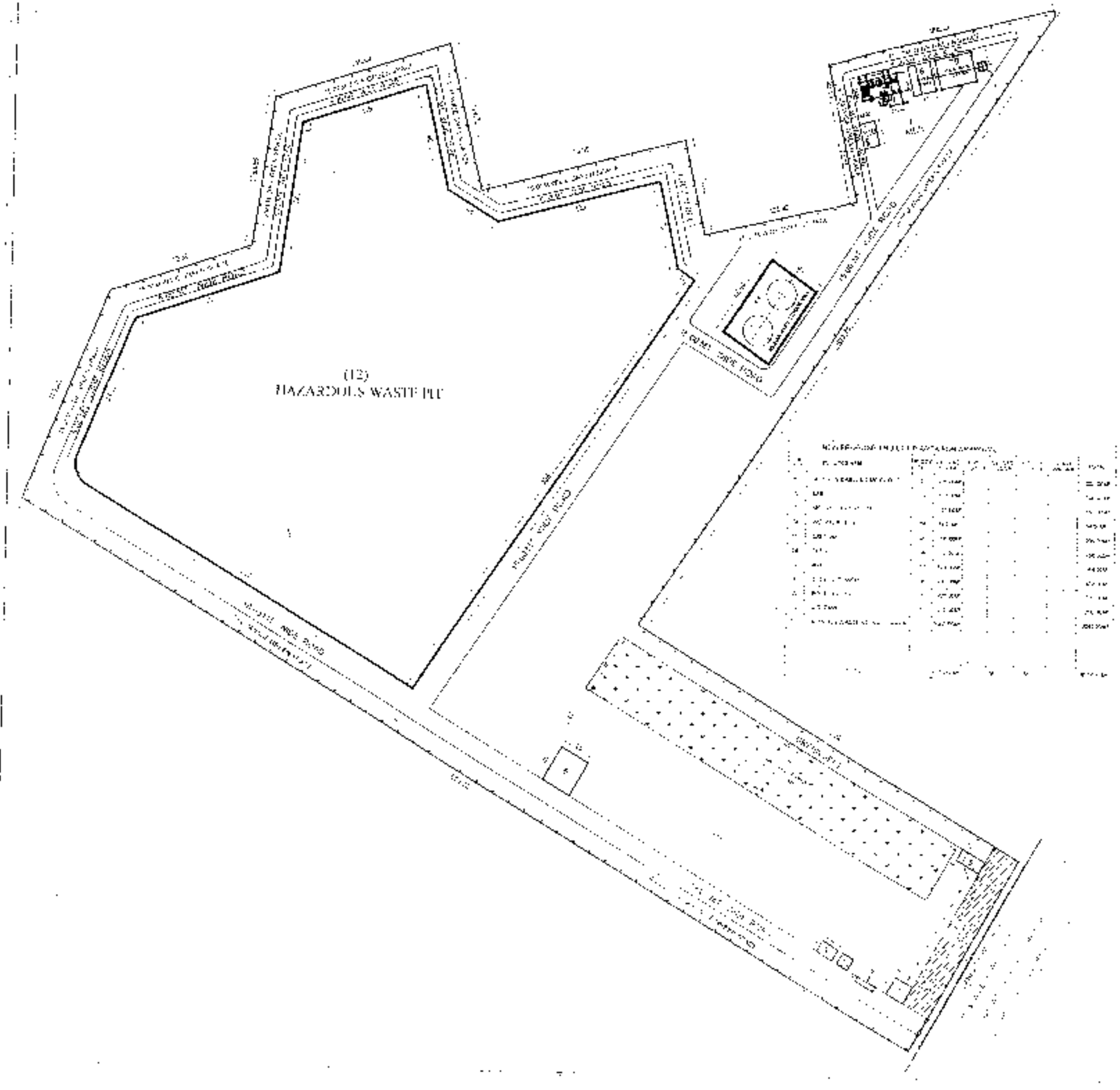
Bharuch Eco-Aqua Infrastructure Ltd. Ankleshwar

INDIAN INSTITUTE OF TECHNOLOGY, NEW DELHI

Dr. Manoj Datta
Professor
Civil Engineering Department
Indian Institute of Technology Delhi
Hauz Khas, New Delhi - 110016

DRG NO REV DATE

SCALE



GENERAL LAYOUT

CONSTRUCTION OF SECURED LANDFILL FACILITY

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Bharuch Enviro Infrastructure Ltd.
Authorised Signatory

INDIAN INSTITUTE OF TECHNOLOGY,
NEW DELHI

Dr. Manoj Datta
Professor
Civil Engineering Department
Indian Institute of Technology Delhi
Hauz Khas, New Delhi - 110016

DRG NO | REV | DATE

SCALE
N.T.S

PLAN OF LANDFILL

PLAN OF LANDFILL

CONSTRUCTION OF SECURED LANDFILL FACILITY

BEIL

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

BEIL

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Bharuch Enviro Infrastructure Ltd. Ankleshwar

INDIAN INSTITUTE OF TECHNOLOGY, NEW DELHI

Dr. Manoj Datta
Professor
Civil Engineering Department
Indian Institute of Technology Delhi
Hauz Khas, New Delhi - 110016

DRG NO | REV | DATE

SCALE
N.T.S

INDIAN INSTITUTE OF TECHNOLOGY, DELHI

Department of Civil Engineering

Hauz Khas, New Delhi – 110 016

Dr. Manoj Datta
Professor & Head

Phone: 26591183/26591241 (O)
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20/03/2015
IITD/CE/MD/2015/BEIL/Dah

To,
Mr. Ashok Panjwani
Bharch Enviro Infrastructure Limited
Dahej
Gujarat

Dear Sir,

Kindly refer to the visit of undersigned on 11th March 2015 at your Dahej site regarding the Cell I of Landfill of Bharuch Enviro Infrastructure Limited.

It is certified that the Cell I of Landfill is satisfactory for receiving hazardous waste in all respect as per CPCB guideline and drawings approved by IIT, Delhi.

Yours sincerely,

(Dr. Manoj Datta)

INDIAN INSTITUTE OF TECHNOLOGY, DELHI

Department of Civil Engineering

Hauz Khas, New Delhi – 110 016

Dr. Manoj Datta
Professor & Head

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IITD/CE/MD/2016
4th March 2016

Sub: Technical Review of Secured Landfill of BEIL at Dahej for Hazardous Waste

Overview

The Secured (Hazardous Waste) Landfill Facility of Bharuch Enviro Infrastructure Limited at Dahej was assessed for compliance with HW Landfill Guidelines (HWLG) published by CPCB. The assessment was based on review of design documents, review of drawings, site visit on 16th Feb 2016, inspection of active phase (under construction) and review of records and associated documents.

Review Report

Landfill Design:	The methodology of design, construction and operation is satisfactory.
Landfill Layout:	Plan and layout depicts phased operation.
Landfill Section:	Landfill side slopes, liner and cover provisions are as per design.
Phased Operation:	Landfill is operated in yearly phases.
Leachate Quantity:	Generation of leachate is minimized by keeping exposed active area small.
Liner System:	Liner System is as per HW landfill guidelines. All essential components (including HDPE geomembrane and barrier soil layer) meet minimum requirements as specified.
Leachate Collection and Removal:	Leachate collection layer, drainage slopes, collection sump, leachate well and other components all comply with HW guidelines
Leachate Management:	Multiple effect evaporator (offsite).
Gaseous Emissions Management:	Gas collection layer and passive venting provided in design.
Final Cover System:	Gas collection layer, barrier layer, HDPE geomembrane, drainage layer, top soil and vegetation grass / rubble + vegetation meet HW guidelines.
Surface Water Drainage System:	Berms, drainage channels and surface water drain provided adequately
Slope Stability:	Adequate safety against slippage along interfaces of different layers.

Site Infrastructure: Fencing, office, road, laboratory, drainage system, weighbridge, waste inspection, temporary storage, waste stabilization facilities as per standards

Environmental Monitoring System: Ground water wells installed.

Site Development: Planned in phases.

Record Keeping: Satisfactory.

Waste Inspection: Adequate facilities.

Phase Development and operation: Yearly

Phase Closure: HW cover to be provided on completion of each phase.

Landfill Closure: Progressive closure and joining of cover system with completion of progressive phases.

Vegetative Cover: Local vegetation or grass / rubble with local vegetation

Post Closure Maintenance System: Provision of post-closure funds.

Conclusions

Cells 2 and 5 are observed to be designed in accordance with Hazardous Waste Landfill Guidelines of CPCB and drawings approved vide IIT Delhi consulting project and are ready to receive the waste.

(Dr. Manoj Datta)

INDIAN INSTITUTE OF TECHNOLOGY, DELHI

Department of Civil Engineering

Hauz Khas, New Delhi – 110 016

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IITD/CE/MD/2019
7th June 2019

Mr. Manoj Patel,
Bharuch Enviro Infrastructure Limited
Plot No. D-43
Dahej-Amod Road
GIDC Estate, Ta-Vagra
Dahej – 392130, Dist.: Bharuch (Gujarat)

Sub: Technical Review of Closure of Cell 5, Construction of new Cells-3 & 4 and Monsoon Storage Shed (second part) at Secured Landfill of BEIL, at Dahej for Hazardous Waste

Overview

The Secured (Hazardous Waste) Landfill Facility of Bharuch Enviro Infrastructure Limited at Dahej was assessed for compliance with HW Landfill Guidelines (HWLG) published by CPCB for construction of new Cells 3 and 4. The assessment was based on review of design documents, review of drawings, site visit on 1st May 2019, inspection of construction work as well as review of records and associated documents. Closure activities on Cell 5 were reviewed. Base liner system of monsoon storage shed (second part) was also reviewed.

Review Report

Const. of Cells-3&4	(a) Construction of Cells 3&4 completed; inspected during site visit. (b) All components installed as per design. (c) Side slopes as per design. (d) Geosynthetic materials and soil layers as per specifications. (e)Thickness of components adequate. (f) Drainage layers as per design. (g) Separation and filtration layers as per design.
Monsoon Storage Shed	(a) Second part of monsoon storage shed inspected visually. (b) Base liner system is as per design and construction completed.
Closure of Cell 5	(a) Work underway; operations inspected during site visit
Landfill Design:	Design, construction and operating methodology is satisfactory.
Landfill Layout:	Layout meets requirements of phased operation.
Landfill Section:	Landfill side slopes, liner and cover provisions are as per design.
Phased Operation:	Operation is in yearly phases.

Leachate Quantity:	Minimized by temporary covering during monsoons. All leachate pumped out and treated.
Liner System:	In accordance with HW landfill guidelines. All essential components (including HDPE geomembrane and barrier soil layer) meet minimum requirements as per guidelines.
Leachate Collection and Removal:	Leachate collection layer, drainage slopes, collection sump, well and other components all comply with HW guidelines.
Leachate Management:	Spray Drier and MEE
Gaseous Emissions:	Gas collection layer and passive venting.
Final Cover System:	Gas collection layer, barrier layer, HDPE geomembrane, drainage layer, top soil and vegetation / rubble + vegetation meet HW guidelines/equivalence.
Surface Water Drainage:	Berms, drainage channels and surface water drain provided adequately.
Slope Stability:	Slope inclination as per design.
Site Infrastructure:	Boundary wall, road, laboratory, drainage system, weighbridge, waste inspection, temporary storage, waste stabilization facilities as per standards.
Environmental Monitoring:	Ground water wells for monitoring.
Site Development:	Well planned.
Record Keeping:	Satisfactory.
Waste Inspection:	Adequate facilities.
Phase Development and Operation:	Yearly.
Phase Closure:	HW cover system provided on completion of each phase (or part thereof).
Landfill Closure:	Progressive closure and joining of cover system with completion of each phase.
Vegetative Cover:	Local vegetation or grass / rubble with vegetation.
Post Closure Maintenance System:	Provision of funds for maintenance after closure

Conclusions

Construction drawings and photographs were reviewed during site visit and various components of the liner system were visually inspected and found satisfactory. It is observed that construction work of liner and leachate collection system of new cells 3 & 4 had been completed in all respects as per CPCB Guidelines and drawings approved by IIT Delhi. Closure of Cell-5 is underway and operations are satisfactory. Base liner system of monsoon storage shed (second part) has been completed.

Cells 3 & 4 are now ready to receive the waste. Base liner system of monsoon storage shed (second part) is also ready to receive waste.

(Dr. Manoj Datta)

Civil Engineering Department
INDIAN INSTITUTE OF TECHNOLOGY DELHI
Hauz Khas, New Delhi-110 016, India

Tel. : 91-11-26591241, 26596422
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Date:11.04.2022

Mr. Manoj Patel
BEIL Infrastructure Limited
Plot No. D-43
Dahej-Amod Road
Ta-Vagra
Dist-Bharuch (Gujarat)

Sub: Technical Review of Secured Landfill of BEIL at Dahej for Hazardous Waste

Overview

The Secured (Hazardous Waste) Landfill Facility of BEIL Infrastructure Limited at Dahej was assessed for compliance with HW Landfill Guidelines (HWLG) published by CPCB. The assessment was based on review of design documents, review of drawings, site visit on 09.04.2022, inspection of Cell-6, review of records and associated documents.

Review Report

Construction of Cell-6:	(a) Construction of Cell-6 Completed, Inspected during site visit. (b) All components installed as per design. (c) Side slopes as per design (d) Geosynthetic materials and soil layers as per specifications. (e) Thickness of components adequate. (f) Drainage layers as per design. (g) Separation and filtration layers as per design.
Landfill Design:	Design, construction, and operating methodology is satisfactory.
Landfill Layout:	Layouts meets requirements of phased operation.
Landfill Section:	Landfill side slopes, liner and cover provisions are as per design.
Phased Operation:	Operation is in yearly phases.
Leachate Quantity:	Minimized by temporary covering during monsoons. All leachate pumped out and treated.
Liner System:	In accordance with HW landfill guidelines. All essential component (Including HDPE Geomembrane and barrier soil layer) meets minimum requirements as per guidelines.

Leachate Collection and Removal:	Leachate collection layer, drainage slopes, collection sump, leachate well and other components all comply with HW guidelines
Leachate Management:	Spray Drier and MEE.
Gaseous Emissions Management:	Gas collection layer and passive venting provided in design.
Final Cover System:	Gas collection layer, barrier layer, HDPE geomembrane, drainage layer, top soil and vegetation grass / rubble + vegetation meet HW guidelines.
Surface Water Drainage System:	Berms, drainage channels and surface water drain provided adequately
Slope Stability:	Slope inclination as per design.
Site Infrastructure:	Boundary wall, road, laboratory, drainage system, weighbridge, waste inspection, temporary storage, waste stabilization facilities as per standards
Environmental Monitoring System:	Ground water wells for monitoring.
Site Development:	Well planned.
Record Keeping:	Satisfactory.
Waste Inspection:	Adequate facilities.
Phase Development and operation:	Yearly
Phase Closure:	HW cover system provided on completion of each phase (or part thereof).
Landfill Closure:	Progressive closure and joining of cover system with completion of each phase.
Vegetative Cover:	Local vegetation or grass / rubble with local vegetation
Post-Closure Maintenance System:	Provision of funds for maintenance after closure.

Conclusions

Construction drawings and Photographs were reviewed during site and various components of the liner system were visually inspected and found satisfactory. It is observed that construction work of liner and leachate collection system of new cell-6 had been completed in all respects as per CPCB Guidelines and drawings approved by IIT Delhi.

Cell-6 is now ready to receive the waste.

(G. V. Ramana)
Professor

(Manoj Datta)
Professor

Dr. G.V. Ramana
Professor
Department of Civil Engineering
Indian Institute of Technology Delhi
Hauz Khas, New Delhi-110016

Dr. Manoj Datta
Professor
Civil Engineering Department
Indian Institute of Technology Delhi
Hauz Khas, New Delhi - 110016

Annexure 00

Compliance of CPCB Criteria for Hazardous waste landfill

Sr. No.	Conditions	Status
1.	Location Criteria: - Lake or Pond : 200 Mtrs - River : 100 Mtrs - Flood plain : 100 years - Highway : 500 Mtrs - Habitation : 500 Mtrs - Public Parks : 500 Mtrs - Critical habitat Area : No landfill - Wet Lands: No landfill - Airport : No Landfill - Water Supply: 500 Mtrs - Coastal Regulation Zone : No landfill - Ground Water table level: < 2 meters below the base	Complied Landfill is located in Vagra Taluka fulfilling all the criteria mentioned in the guidelines. Nearest railway station is at about 50 Km, Bharuch. Nearest village is at about 3.76 KM, Dahej. Nearest airport is at about 75 Km, Vadodara. The project site is located about 43.7 km away from National Highway No. 8, 0.44 km and 33.87 km away from State Highway No 6 and 37. The CRZ area is about 7.0 Km away from the project site.
2.	Planning And Design criteria:	Complied
	1. Essential Components: - Liner System at base and sides of landfill - A leachate collection and treatment facility - Gas collection and treatment facility - Final cover system at top - Surface water drainage system - Environmental monitoring system - Closure and post closure plan	Appropriate base and side liners has been provided according to the criteria. Leachate collection wells (Total 4 wells for the cell 1, cell2 & cell5, cell3, cell4 & Monsoon cell) has been provided for collecting leachate which further treated in MEE followed by Spray dryer. At present only cell 1 is capped and cell 2 & 5 are partially capped, Surface water drainage system is provided.
	2. Phased Operation: - During the monsoon months the waste may stockpiled in a temporary holding area (covered with roof). During this period and the landfill may be kept capped with final cover/ intermediate cover and landfill operations suspended to reduce infiltration of rainwater into the landfill.	Complied. Landfill site operation is being suspended during the 4 months of monsoon. We have constructed monsoon landfill cell of capacity 20000 MT having impervious bottom and roof cover has been provided. Landfill which

		is in operation is covered with tarpaulin during these periods.
	3. Liner system: - Leachate control within a landfill involves the following steps: (a) prevention of migration of leachate from landfill sides and landfill base to the subsoil by suitable liner system; and (b) drainage of leachate collected at the base of a landfill to the side of the landfill and removal of the leachate from within the landfill.	Complied A proper base and side liners has been provided according to the criteria. Drainage system is also provided to avoid infiltration of surface water.
	4. Leachate Management: - Offsite Treatment - Onsite Treatment - Recirculation	Complied Leachate collection wells (Total 4 wells for the cell 1, cell2, cell5, cell3, cell4 & Monsoon cell) has been provided and collected leachate is treated onsite in MEE. Leachate is recirculated accelerating process of landfill stabilization.
	5. Gaseous Emission Management: - Controlled passive venting - Controlled collection and treatment	Complied At present only cell 1 is capped and cell 2 & 5 are partially capped
	6. Final Cover System	Complied At present cell 1 is capped and cell 2 & 5 are partially capped, while no other cells are closed. Closure of the Cell will be according to the Guidelines.
	7. Site Infrastructure: - Site Entrance and Fencing. - Administrative and Site Control Offices - Access Roads - Waste Inspection and Sampling Facility. - Equipment Workshops and Garages. - Signs and Directions - Water Supply - Lighting - Vehicle Cleaning Facility - Fire Fighting Equipment	Complied All the facilities like site entrance and fencing, administration, site control offices, access roads, waste inspection, sampling facility, water supply, lightings, vehicle cleaning facility, firefighting equipment, signs and directions etc. have been provided.
	8. Environment Monitoring System:	Complied Regular monitoring of leachate quality, air quality, and noise is being carried out. Monitoring of ground water, leachate, VOC generation, ambient air monitoring, noise

		monitoring has been conducted on regular basis. All the analysis reports are attached.
	9. Closure and post closure maintenance plan:	Complied At present only cell 1 is capped and cell 2 & 5 are partially capped, while no other cells are closed. Closure of the Cell will be according to the Guidelines.
3.	Waste Acceptance Criteria	Complied On arrival of any waste, it is first analyzed and if it follows GPCB/CPCB waste acceptance criteria then only then it is accepted.
4.	Construction and operational Criteria: - Site Development - Phase development - Phase operation - Phase closure - Landfill closure - Post closure vegetative stabilization	Complied Proper facilities for site development like record keeping for site manual, site reports, vehicle inspection is provided.
5.	Inspection, Monitoring and record keeping criteria: - During construction of liners and covers - During operation - During closure and post closure period - Environmental Monitoring System	Complied Regular inspections of liners, and covers was being conducted during construction phase of landfill. Adequate environmental monitoring system has been provided.
6.	Financial Assurance Criteria	Complied We have prepared detailed financial estimates for construction, operation, and closure and post closure activity of the landfill.
7.	Contingency Plan for Emergency	Complied We are having onsite emergency plan, which is updated on yearly basis and submitted to GPCB, RO.

BEIL INFOSYSTEM - BEIL

Date : 25-Apr-22

BHARUCH ENVIRO INFRASTRUCTURE LTD.

Receipt Date From: 31-MAR-2022

FINGERPRINT ANALYSIS REPORT - INCINERATOR

Receipt Date To: 31-MAR-2022

Sr No	Manifest	Receipt Date	Customer Name	Waste Type / Category No	Physical State	Treatment Remarks	Quantity (MT)	Ash Content	Calorific value	Carbon (%)	Halogen (as Cl)	Loss On Drying at 110*C	Moisture Content by KF	PACKAGE TYPE	Sulphur.	Viscosity	WASTE STATE	pH
1	INC16421	31-Mar-22	UPL LTD#1	Process wastes or residues (29.1)	ORGANIC LIQUID		21280.000	0.95	3516	NOT APPLICABLE	5.28	56.15	3.11	TANKER	1.77	FF	OLW	5.56
2	INC16640	31-Mar-22	HALDYN HEINZ FINE GLASS PRIVATE LIMITED	Process wastes, residues and sludges (21.1)	SOLID		3400.000	9.25	2856	NOT APPLICABLE	3.31	5.29		BAGS	1.88	NFF	SOLID	6.5
3	INC16647	31-Mar-22	GUJARAT GUARDIAN LTD.	Process wastes, residues and sludges (21.1)	SEMI-SOLID		5060.000	3.12	4659	NOT APPLICABLE	1.51	72.11		ICB	2.16	NFF	SEMI-SOLID	3.96
4	INC16366	31-Mar-22	CHEMET WETS AND FLOWS LTD.	Process wastes or residues (29.1)	AQUEOUS		1100.000	1.71	250	NOT APPLICABLE	1.79	87.16	48.49	DRUMS	1.86	FF	AQUEOUS	4.02
5	INC16281	31-Mar-22	TATVA CHINTAN PHARMA CHEM. PVT. LTD. - ANKLESHWAR	Process wastes or residues (29.1)	SOLID		6070.000	21.03	194	NOT APPLICABLE	52.30	3.96		DRUMS	0.30	NFF	SOLID	9.96
6	INC16329	31-Mar-22	L & T-MHPS BOILERS PVT. LTD. (GATE NO.6)	Process wastes, residues and sludges (21.1)	SOLID		5600.000	25.11	1068	NOT APPLICABLE	2.08	3.59		BAGS	0.892	NFF	SOLID	7.23

Receipt Date From: 31-MAR-2022

FINGERPRINT ANALYSIS REPORT - INCINERATOR

Receipt Date To: 31-MAR-2022

Sr No	Manifest	Receipt Date	Customer Name	Waste Type / Category No	Physical State	Treatment Remarks	Quantity (MT)	Ash Content	Calorific value	Carbon (%)	Halogen (as Cl)	Loss On Drying at 110*C	Moisture Content by KF	PACKAGE TYPE	Sulphur.	Viscosity	WASTE STATE	pH
7	INC16392	31-Mar-22	AARTI INDUSTRIES LTD. (ALCHEMIE ORGANICS DIV) (902)	Process waste sludge/residues containing acid, toxic metals, organic compounds (26.1)	ORGANIC LIQUID		9610.000	1.62	2694	NOT APPLICABLE	7.23	87.31	4.08	DRUMS	0.92	FF	OLW	10.26
8	INC16642	31-Mar-22	TETHYS CHEMICAL	Process waste sludge/residues containing acid, toxic metals, organic compounds (26.1)	AQUEOUS		24250.000	1.97	228	NOT APPLICABLE	8.67	82.11	53.26	TANKER	3.38	FF	AQUEOUS	0.46
9	INC16657	31-Mar-22	UPL LTD#1	Process wastes or residues (29.1)	AQUEOUS		24940.000	2.58	1731	NOT APPLICABLE	2.87	79.63	48.21	TANKER	0.651	FF	AQUEOUS	10.30
10	INC16659	31-Mar-22	RPG LIFE SCINECE LTD. - 3102 (ANK)	Off specification products (28.4)	SOLID		1105.000	10.10	2756	NOT APPLICABLE	2.49	2.51		BAGS	1.02	NFF	SOLID	4.02
11	INC16643	31-Mar-22	QUAKER CHEMICAL INDIA PRIVATE LIMITED	Wastes or residues containing oil (5.2)	SEMI-SOLID		4860.000	1.70	5237	NOT APPLICABLE	1.89	72.71		DRUMS	0.856	NFF	SEMI-SOLID	4.11

BEIL INFOSYSTEM - BEIL

BHARUCH ENVIRO INFRASTRUCTURE LTD.

Receipt Date From: 31-MAR-2022

FINGERPRINT ANALYSIS REPORT - INCINERATOR

Receipt Date To: 31-MAR-2022

Sr No	Manifest	Receipt Date	Customer Name	Waste Type / Category No	Physical State	Treatment Remarks	Quantity (MT)	Ash Content	Calorific value	Carbon (%)	Halogen (as Cl)	Loss On Drying at 110*C	Moisture Content by KF	PACKAGE TYPE	Sulphur.	Viscosity	WASTE STATE	pH
12	INC15806	31-Mar-22	UPL LTD#1	Process wastes or residues (29.1)	ORGANIC LIQUID		11350.000	0.99	2601	NOT APPLICABLE	38.51	84.03	4.12	DRUMS	11.4	FF	OLW	3.03
13	INC16030	31-Mar-22	UPL LTD.-(VAPI#P.NO.11)	Process wastes or residues (29.1)	TARRY		6525.000	2.62	3925	NOT APPLICABLE	35.19	26.71		DRUMS	1.85	NFF	TARRY	3.83
14	INC16631	31-Mar-22	YASH SPECIALITY CHEMICALS LLP	Any process or distillation residue (36.1)	AQUEOUS		22980.000	1.16	238	NOT APPLICABLE	2.42	94.10	80.44	TANKER	2.33	FF	AQUEOUS	8.12
15	INC16486	31-Mar-22	TATVA CHINTAN PHARMA CHEM PVT. LTD. - DAHEJ	Distillation residues (20.3)	SOLID		5230.000	3.11	3233	NOT APPLICABLE	4.64	67.08		DRUMS	1.02	NFF	SOLID	8.06
16	INC15578	31-Mar-22	UPL LTD#2	Process wastes or residues (29.1)	SOLID		7250.000	22.62	3684	NOT APPLICABLE	3.22	35.11		DRUMS	8.98	NFF	SOLID	4.26
17	INC16561	31-Mar-22	CHEMET WETS AND FLOWS LTD.	Date-expired and off-specification pesticides (29.3)	SOLID		1050.000	18.20	264	NOT APPLICABLE	2.46	2.70		BAGS	0.840	NFF	SOLID	11.39

BEIL INFOSYSTEM - BEIL

BHARUCH ENVIRO INFRASTRUCTURE LTD.

Receipt Date From: 31-MAR-2022

FINGERPRINT ANALYSIS REPORT - INCINERATOR

Receipt Date To: 31-MAR-2022

Sr No	Manifest	Receipt Date	Customer Name	Waste Type / Category No	Physical State	Treatment Remarks	Quantity (MT)	Ash Content	Calorific value	Carbon (%)	Halogen (as Cl)	Loss On Drying at 110*C	Moisture Content by KF	PACKAGE TYPE	Sulphur.	Viscosity	WASTE STATE	pH
18	INC16638	31-Mar-22	GANGA RASAYANIE (P) LTD.	Distillation residues (20.3)	SOLID		390.000	38.92	229	NOT APPLICABLE	2.66	2.06		BAGS	0.80	NFF	SOLID	7.62
19	INC16649	31-Mar-22	PI INDUSTRIES LTD. (PANOLI-237)	Process wastes or residues (29.1)	AQUEOUS		21520.000	1.81	196	NOT APPLICABLE	6.81	76.28	59.56	TANKER	5.27	FF	AQUEOUS	4.62
20	INC16644	31-Mar-22	QUAKER CHEMICAL INDIA PRIVATE LIMITED	Spent ion exchange resin containing toxic metals (35.2)	SOLID		430.000	10.80	269	NOT APPLICABLE	1.59	2.96		DRUMS	0.20	NFF	SOLID	7.75
21	INC16645	31-Mar-22	QUAKER CHEMICAL INDIA PRIVATE LIMITED	Sludge and filters contaminated with oil (3.3)	SOLID		40.000	6.18	3629	NOT APPLICABLE	2.60	4.90		ICB	0.302	NFF	SOLID	7.60

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

QF/7.8/37-WT
Page: 1 of 3

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0047**
Issue Date	:	**09/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **29/04/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **30/04/2022**	Lab ID.	:	**BLD/2204/05**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **30/04/2022**	Date of Completion of Test	:	**09/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.69	IS 3025 (Part 11)
2	Colour	Co-pt	15	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	54.18	IS 3025 (Part – 14)
4	Turbidity	NTU	1.30	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	6.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	35221	IS 3025 (Part-16)
7	TOC	mg/L	6.0	APHA (23rd Edition) 5310 B
8	COD	mg/L	72	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4348	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	450	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.25	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	16469	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3365	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.24	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.42	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016665174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0047** Issue Date : **09/05/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	0.98	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	354	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	844	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	11250	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	245	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.10	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Mangarese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0047** Issue Date : **09/05/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan 0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:1.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidan:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin: 100 µg/l, Alpha-Cypermethrin: 100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin 100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016695174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0048** Issue Date : **09/05/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 2 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **29/04/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **30/04/2022**	Lab ID.	:	**BLD/2204/06**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **30/04/2022**	Date of Completion of Test	:	**09/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.51	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	51.86	IS 3025 (Part – 14)
4	Turbidity	NTU	1.24	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	5.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33711	IS 3025 (Part-16)
7	TOC	mg/L	5.6	APHA (23rd Edition) 5310 B
8	COD	mg/L	70	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4162	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	425	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.12	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15669	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3290	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.14	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.36	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0048** Issue Date : **09/05/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	0.85	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	344	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	792	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10990	APHA (23RD Edition) 3111 B
30	Potassium as K	mg/L	235	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.80	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174. WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0048** Issue Date : **09/05/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides: Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinephos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin: 100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
hone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

**M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH**

Test Report No.	:	**PL/BLD 0052**
Issue Date	:	**09/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**		Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **29/04/2022**		Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **30/04/2022**		Lab ID.	:	**BLD/2204/10**
Packing/ Seal	: **Sealed**		Test Parameters	:	**As per table**
Date of Starting of Test	: **30/04/2022**		Date of Completion of Test	:	**09/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.42	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	51.52	IS 3025 (Part – 14)
4	Turbidity	NTU	1.22	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	6.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33486	IS 3025 (Part-16)
7	TOC	mg/L	5.8	APHA (23rd Edition) 5310 B
8	COD	mg/L	71	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4176	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	422	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.16	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15489	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3242	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.16	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.36	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0052**
	Issue Date	:	**09/05/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	342	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	797	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10865	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	225	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.4	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, BOD : 1.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

**M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH**

Test Report No. : **PL/BLD 0052**
Issue Date : **09/05/2022**
Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinalphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.2 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinalphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin 100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
one : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@pollucon

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0053**
Issue Date	:	**09/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**		Quantity/No. of Samples	: **05 Lit./One**
Date of Sampling	: **29/04/2022**		Sampling Procedure	: **IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	: **QC/Env. Monitoring**
Sample Receipt Date	: **30/04/2022**		Lab ID.	: **BLD/2204/11**
Packing/ Seal	: **Sealed**		Test Parameters	: **As per table**
Date of Starting of Test	: **30/04/2022**		Date of Completion of Test	: **09/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.56	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	51.02	IS 3025 (Part – 14)
4	Turbidity	NTU	1.16	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	5.8	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33164	IS 3025 (Part-16)
7	TOC	mg/L	5.2	APHA (23rd Edition) 5310 B
8	COD	mg/L	68	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4086	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	418	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.12	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15372	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3186	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.18	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.32	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0053**
Issue Date	:	**09/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	328	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	783	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10686	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	220	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.0	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L,Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, Fluorides as F:0.05 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0053** Issue Date : **09/05/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides: Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

**M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH**

Test Report No.	:	**PL/BLD 0049**
Issue Date	:	**09/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location	:	**Nr. Gram Panchayat**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**29/04/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**30/04/2022**	Lab ID.	:	**BLD/2204/07**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**30/04/2022**	Date of Completion of Test	:	**09/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.61	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.63	IS 3025 (Part – 14)
4	Turbidity	NTU	0.25	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	408	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	135	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	123	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	171	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	15.8	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.072	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0049** Issue Date : **09/05/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	25.2	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	17.28	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	48	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	3.96	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

Customer's Name and Address :

**M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH**

Test Report No. : **PL/BLD 0049**
Issue Date : **09/05/2022**
Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 525.2
34.7	Heptachlor	µg/l	Absent	USEPA 508
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

**M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH**

Test Report No.	:	**PL/BLD 0050**
Issue Date	:	**09/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**29/04/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**30/04/2022**	Lab ID.	:	**BLD/2204/08**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**30/04/2022**	Date of Completion of Test	:	**09/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.81	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	1.18	IS 3025 (Part – 14)
4	Turbidity	NTU	0.72	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	768	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	249	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	230	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	321	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	40	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.065	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0050** Issue Date : **09/05/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	64	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	21.36	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	82	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	8.0	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0050** Issue Date : **09/05/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0054**
	Issue Date	**09/05/2022**
	Customer's Ref.	**W.O. No. 8521220053 Dated:20.04.2021**

Description of Sample	**ETP Outlet**	Quantity/No. of Samples		**05 Lit./One**
Date of Sampling	**29/04/2022**	Sampling Procedure		**IS:3025**
Sampling by	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)		**QC/Env. Monitoring**
Sample Receipt Date	**30/04/2022**	Lab ID.		**BLD/2204/12**
Packing/ Seal	**Sealed**	Test Parameters		**As per table**
Date of Starting of Test	**30/04/2022**	Date of Completion of Test		**09/05/2022**

RESULT TABLE

SR.NO.	TEST PARAMETERS	UNIT	RESULT	LIMIT#	TEST METHOD
1	pH	--	7.15	6.5 -8.5	IS 3025 (Part-11) Electrometric Method
2	Temperature	°C	30.9	40	IS 3025 (Part-9)
3	Colour	Co-pt	20	100	IS 3025 (Part-4)
4	Total Suspended Solids	mg/L	9.0	100	IS 3025 (Part – 17)
5	Oil & Grease	mg/L	Not Detected	10	APHA (23rd Edition) 5520 B
6	Ammonical Nitrogen	mg/L	21.89	50	IS 3025 (Part-34) Nesslerization Method
7	BOD	mg/L	8.0	30	IS 3025 (Part-44)
8	COD	mg/L	43	100	APHA (23rd Edition) 5220 B Open Reflux Method
9	Chlorides as Cl	mg/L	226	600	IS 3025 (Part-32) Argentometric Method
10	Sulphates as SO4	mg/L	11.78	1000	IS 3025 (Part-24) Turbidimetric method
11	Total Dissolved Solids	mg/L	910	2100	IS 3025 (Part-16)
12	Sodium Percent	%	41.30	60	SOP/CHM/W/21
13	Phenolic Compound	mg/L	Not Detected	1	IS 3025 (Part-43) Aminoantipyrine Method
14	Cyanides as CN	mg/L	Not Detected	0.2	APHA (23rd Edition) 4500 CN D Tritemetric method
15	Fluorides as F	mg/L	Not Detected	2	APHA (23rd Edition) 4500 F D SPANDS Method
16	Arsenic as As	mg/L	Not Detected	0.2	APHA (23rd Edition) 3114 B
17	Total Chromium	mg/L	Not Detected	2	APHA (23rd Edition) 3111 B
18	Hexavalent Chromium	mg/L	Not Detected	0.1	APHA (23rd Edition) 3500 Cr B Colorimetric method
19	Copper as Cu	mg/L	Not Detected	3	APHA (23rd Edition) 3111 B
20	Lead as Pb	mg/L	Not Detected	0.1	APHA (23rd Edition) 3111 B Dithizone method
21	Mercury as Hg	mg/L	Not Detected	0.01	APHA (23rd Edition) 3112 B
22	Nickel as Ni	mg/L	Not Detected	3	APHA (23rd Edition) 3111 B
23	Zinc as Zn	mg/L	Not Detected	5	APHA (23rd Edition) 3111 B
24	SAR	--	3.12	26	IS 11624
25	Pesticides**	µg/L	Absent	Absent	USEPA 508 / USEPA 525.2/ USEPA 532

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.
Detection Limit: Oil & Grease:2.0 mg/L, Phenolic Compound:0.01 mg/L, Cyanides as CN:0.01 mg/L, Fluorides as F:0.01 mg/L, Arsenic as As:0.001 mg/L,Total Chromium:0.0mg/L, HexavalentChromium:0.05 mg/L, Copper as Cu:0.02 mg/L, Lead as Pb :0.02 mg/L, Mercury as Hg:0.0006 mg/L, Nickel as Ni:0.02 mg/L,Zinc:0.05 mg/L .
**Attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST REPORT

Customer's Name and Address :

**M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH**

Test Report No. : **PL/BLD 0054**
Issue Date : **09/05/2022**
Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	LIMIT*	TEST METHOD
25.1	Aldrin	µg/l	Absent	Absent	USEPA 508
25.2	Dicofol	µg/l	Absent	Absent	USEPA 508
25.3	Dieldrin	µg/l	Absent	Absent	USEPA 508
25.4	Alpha Endosulfan	µg/l	Absent	Absent	USEPA 508
25.5	Beta Endosulfan	µg/l	Absent	Absent	USEPA 508
25.6	Sulphate Endosulfan	µg/l	Absent	Absent	USEPA 508
25.7	Heptachlor	µg/l	Absent	Absent	USEPA 525.2
25.8	Hexachlorobenzene (HCB)	µg/l	Absent	Absent	USEPA 508
25.9	Methoxy Chlor	µg/l	Absent	Absent	USEPA 508
25.10	Alpha-HCH	µg/l	Absent	Absent	USEPA 508
25.11	Beta-HCH	µg/l	Absent	Absent	USEPA 508
25.12	Gamma-HCH	µg/l	Absent	Absent	USEPA 508
25.13	2,4 DDT	µg/l	Absent	Absent	USEPA 508
25.14	2,4 DDD	µg/l	Absent	Absent	USEPA 508
25.15	2,4 DDE	µg/l	Absent	Absent	USEPA 508
25.16	4,4 DDT	µg/l	Absent	Absent	USEPA 508
25.17	4,4 DDE	µg/l	Absent	Absent	USEPA 508
25.18	4,4 DDD	µg/l	Absent	Absent	USEPA 508
25.19	Delta HCH	µg/l	Absent	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)					
25.20	Chlorpyriphos	µg/l	Absent	Absent	USEPA 525.2
25.21	Ethion	µg/l	Absent	Absent	USEPA 525.2
25.22	Malathion	µg/l	Absent	Absent	USEPA 525.2
25.23	Monocrotophos	µg/l	Absent	Absent	USEPA 525.2
25.24	Phorate	µg/l	Absent	Absent	USEPA 525.2
25.25	Methyl Parathion	µg/l	Absent	Absent	USEPA 525.2
25.26	Quinaphos	µg/l	Absent	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)					
25.27	Deltamethrin	µg/l	Absent	Absent	USEPA 525.2
25.28	Fenpropethrin	µg/l	Absent	Absent	USEPA 525.2
25.29	Alpha-Cypermethrin	µg/l	Absent	Absent	USEPA 525.2
25.30	Cyhalothrin	µg/l	Absent	Absent	USEPA 525.2
Herbicides					
25.31	Alachlor	µg/l	Absent	Absent	USEPA 525.2
25.32	Butachlor	µg/l	Absent	Absent	USEPA 525.2
25.33	Fluchloralin	µg/l	Absent	Absent	USEPA 525.2
25.34	Pendimethalin	µg/l	Absent	Absent	USEPA 525.2

Pesticides: Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l,Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l,Monocrotophos:0.1 µg/l, Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos: 100 µg/l, Deltamethrin: 100 µg/l,Fenpropethrin:100 µg/l, Fenvalerate:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07916605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0051**
Issue Date	:	**09/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location	:	**Inside Mandir**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**29/04/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**30/04/2022**	Lab ID.	:	**BLD/2204/09**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**30/04/2022**	Date of Completion of Test	:	**09/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.64	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.56	IS 3025 (Part – 14)
4	Turbidity	NTU	0.35	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	364	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	118	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	186	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	81	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	11.30	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.064	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0051**
Issue Date	:	**09/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	23.6	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	14.16	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	31.28	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	3.28	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0051** Issue Date : **09/05/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin:0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin: 100 µg/l, Fenpropathrin:100 µg/l, Alpha-Cypermethrin: 100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0062**
	Issue Date	**21/05/2022**
	Customer's Ref.	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location	:	**EB 1 Up stream**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**11/05/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**12/05/2022**	Lab ID.	:	**BLD/2205/07**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**12/05/2022**	Date of Completion of Test	:	**21/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.56	IS 3025 (Part 11)
2	Colour	Co-pt	15	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	54.34	IS 3025 (Part – 14)
4	Turbidity	NTU	1.49	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	17	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	35324	IS 3025 (Part-16)
7	TOC	mg/L	8.2	APHA (23rd Edition) 5310 B
8	COD	mg/L	72	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4198	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	463	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.72	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15102	APHA (23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3512	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.73	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.38	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0062**
	Issue Date	:	**21/05/2022**
	Customer's Ref.	:	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.29	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	342	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	822	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10724	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	268	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	8.10	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0062**
	Issue Date	: **21/05/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0063**
	Issue Date	**21/05/2022**
	Customer's Ref.	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location	:	**EB 2 Down Stream (Borewell)**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**11/05/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**12/05/2022**	Lab ID.	:	**BLD/2205/08**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**12/05/2022**	Date of Completion of Test	:	**21/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.38	IS 3025 (Part 11)
2	Colour	Co-pt	12	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	51.77	IS 3025 (Part – 14)
4	Turbidity	NTU	1.28	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	14	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33649	IS 3025 (Part-16)
7	TOC	mg/L	7.6	APHA (23rd Edition) 5310 B
8	COD	mg/L	64	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4102	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	445	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.68	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14260	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3388	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.42	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.32	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0063**
	Issue Date	:	**21/05/2022**
	Customer's Ref.	:	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.24	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	324	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	805	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10310	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	213	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.66	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0063**
	Issue Date	**: 21/05/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0064**
	Issue Date	**21/05/2022**
	Customer's Ref.	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location	:	**Nr. Gram Panchayat**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**11/05/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**12/05/2022**	Lab ID.	:	**BLD/2205/09**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**12/05/2022**	Date of Completion of Test	:	**21/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.48	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.66	IS 3025 (Part – 14)
4	Turbidity	NTU	0.27	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	431	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	138	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	136	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	184	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	14.68	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.073	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0064**
	Issue Date	:	**21/05/2022**
	Customer's Ref.	:	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	26.8	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	17.04	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	32.65	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	4.12	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0064**
	Issue Date	**21/05/2022**
	Customer's Ref.	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0065**
	Issue Date	**21/05/2022**
	Customer's Ref.	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location	:	**Nr. Bus Station**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**11/05/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**12/05/2022**	Lab ID.	:	**BLD/2205/10**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**12/05/2022**	Date of Completion of Test	:	**21/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.88	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	1.24	IS 3025 (Part – 14)
4	Turbidity	NTU	0.64	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	802	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	256	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	242	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	335	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	47.68	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.094	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. Issue Date Customer's Ref.	: **PL/BLD 0065** : **21/05/2022** : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	64	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	23.04	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	66.40	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	8.62	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, **PLOT NO.D-43, GIDC, DAHEJ,** **DAHEJ-392130, TAL :- VAGRA,** **DISIT: BHARUCH**	Test Report No.	:	**PL/BLD 0065**
	Issue Date	:	**21/05/2022**
	Customer's Ref.	:	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0066**
	Issue Date	**21/05/2022**
	Customer's Ref.	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location	:	**Inside Mandir**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**11/05/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**12/05/2022**	Lab ID.	:	**BLD/2205/11**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**12/05/2022**	Date of Completion of Test	:	**21/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.79	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.59	IS 3025 (Part – 14)
4	Turbidity	NTU	0.31	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	386	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	117	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	124	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	173	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	14.60	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.061	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. Issue Date Customer's Ref.	: **PL/BLD 0066** : **21/05/2022** : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	24.4	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	13.44	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	27.65	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	3.93	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0066**
Issue Date	:	**21/05/2022**
Customer's Ref.	:	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0067** Issue Date : **21/05/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 3 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **11/05/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **12/05/2022**	Lab ID.	:	**BLD/2205/15**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **12/05/2022**	Date of Completion of Test	:	**21/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.45	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	52.87	IS 3025 (Part – 14)
4	Turbidity	NTU	1.27	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	14	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	34368	IS 3025 (Part-16)
7	TOC	mg/L	7.2	APHA (23rd Edition) 5310 B
8	COD	mg/L	70	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4116	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	423	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.5	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14095	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3279	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.43	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.296	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0067**
	Issue Date	:	**21/05/2022**
	Customer's Ref.	:	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.24	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	310	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	818	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10296	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	207	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.80	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, BOD :1.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0067**
	Issue Date	**21/05/2022**
	Customer's Ref.	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0068**
	Issue Date	:	**21/05/2022**
	Customer's Ref.	:	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location	:	**EB 4 Down Stream (Borewell)**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**11/05/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**12/05/2022**	Lab ID.	:	**BLD/2205/16**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**12/05/2022**	Date of Completion of Test	:	**21/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.53	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	52.18	IS 3025 (Part – 14)
4	Turbidity	NTU	1.21	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	7.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33898	IS 3025 (Part-16)
7	TOC	mg/L	6.8	APHA (23rd Edition) 5310 B
8	COD	mg/L	69	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4160	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	438	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.23	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14196	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3254	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.29	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.31	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. Issue Date Customer's Ref.	: **PL/BLD 0068** : **21/05/2022** : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.22	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	298	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	836	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10312	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	238	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.9	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L,Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0068**
	Issue Date	**21/05/2022**
	Customer's Ref.	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0076**
	Issue Date	**07/07/2022**
	Customer's Ref.	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream(Borewell)**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**23/06/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**24/06/2022**	Lab ID.	:	**BLD/2206/01**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**24/06/2022**	Date of Completion of Test	:	**02/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.68	IS 3025 (Part 11)
2	Colour	Co-pt	16	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	54.99	IS 3025 (Part – 14)
4	Turbidity	NTU	1.62	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	13	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	35746	IS 3025 (Part-16)
7	TOC	mg/L	7.8	APHA (23rd Edition) 5310 B
8	COD	mg/L	79	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4247	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	476	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.62	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	16070	APHA (23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3628	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.54	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.51	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, **PLOT NO.D-43, GIDC, DAHEJ,** **DAHEJ-392130, TAL :- VAGRA,** **DISIT: BHARUCH**	Test Report No. : **PL/BLD 0076** Issue Date : **07/07/2022** Customer's Ref. : **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream(Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.15	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	347	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	822	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10346	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	276	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.6	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0076**
	Issue Date	: **07/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream(Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0077**
	Issue Date	**07/07/2022**
	Customer's Ref.	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location	:	**EB 2 Down Stream (Borewell)**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**23/06/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**24/06/2022**	Lab ID.	:	**BLD/2206/02**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**24/06/2022**	Date of Completion of Test	:	**02/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.42	IS 3025 (Part 11)
2	Colour	Co-pt	14	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	50.79	IS 3025 (Part – 14)
4	Turbidity	NTU	1.32	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	10.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33014	IS 3025 (Part-16)
7	TOC	mg/L	7.20	APHA (23rd Edition) 5310 B
8	COD	mg/L	70	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3959	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	462	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.53	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	13648	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3126	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.44	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.47	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0077**
	Issue Date	:	**07/07/2022**
	Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	0.97	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	314	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	772	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10128	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	228	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.0	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0077**
	Issue Date	**07/07/2022**
	Customer's Ref.	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0078**
	Issue Date	**07/07/2022**
	Customer's Ref.	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location	:	**Nr. Gram Panchayat**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**23/06/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**24/06/2022**	Lab ID.	:	**BLD/2206/03**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**24/06/2022**	Date of Completion of Test	:	**02/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.82	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.47	IS 3025 (Part – 14)
4	Turbidity	NTU	0.19	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	305	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	132	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	132	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	94	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	11.86	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.056	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0078**
	Issue Date	:	**07/07/2022**
	Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	23	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	18.05	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	22.4	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	4.12	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0078**
	Issue Date	: **07/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0079** Issue Date : **07/07/2022** Customer's Ref. : **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**23/06/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**24/06/2022**	Lab ID.	:	**BLD/2206/04**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**24/06/2022**	Date of Completion of Test	:	**02/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.68	IS 3025 (Part 11)
2	Colour	Hazen	4.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.87	IS 3025 (Part – 14)
4	Turbidity	NTU	0.47	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	565	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	206	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	191	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	216	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	27.6	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.063	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0079**
	Issue Date	:	**07/07/2022**
	Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	53	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	18.05	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	53.67	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	4.32	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0079**
	Issue Date	: **07/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0080** Issue Date : **07/07/2022** Customer's Ref. : **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

Description of Sample	: **Ground Water sample**		Quantity/No. of Samples	: **05 Lit./One**	
Date of Sampling	: **23/06/2022**		Sampling Procedure	: **IS:3025**	
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	: **QC/Env. Monitoring**	
Sample Receipt Date	: **24/06/2022**		Lab ID.	: **BLD/2206/11**	
Packing/ Seal	: **Sealed**		Test Parameters	: **As per table**	
Date of Starting of Test	: **24/06/2022**		Date of Completion of Test	: **02/07/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.58	IS 3025 (Part 11)
2	Colour	Hazen	3.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.49	IS 3025 (Part – 14)
4	Turbidity	NTU	0.25	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	316	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	124	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	128	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	116	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	9.37	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.072	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0080**
	Issue Date	: **07/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	25	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	15.04	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	19.33	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	3.26	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, **PLOT NO.D-43, GIDC, DAHEJ,** **DAHEJ-392130, TAL :- VAGRA,** **DISIT: BHARUCH**	Test Report No. :	**PL/BLD 0080**
	Issue Date :	**07/07/2022**
	Customer's Ref. :	**W.O. No. 85222230080** **Dated:29.04.2022**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0081**
	Issue Date	**07/07/2022**
	Customer's Ref.	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location	:	**EB 3 Down Stream (Borewell)**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**23/06/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**24/06/2022**	Lab ID.	:	**BLD/2206/06**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**24/06/2022**	Date of Completion of Test	:	**02/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.52	IS 3025 (Part 11)
2	Colour	Co.pt.	15	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	53.29	IS 3025 (Part – 14)
4	Turbidity	NTU	1.39	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	11	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	34640	IS 3025 (Part-16)
7	TOC	mg/L	7.4	APHA (23rd Edition) 5310 B
8	COD	mg/L	68	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4082	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	458	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.25	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14926	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3345	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.27	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.319	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0081**
	Issue Date	: **07/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 3 Down Stream(Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.12	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	314	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	802	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10088	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	237	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.8	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0081**
	Issue Date	**07/07/2022**
	Customer's Ref.	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 3 Down Stream(Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0082**
	Issue Date	**07/07/2022**
	Customer's Ref.	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location	:	**EB 4 Down Stream(Borewell)**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**23/06/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**24/06/2022**	Lab ID.	:	**BLD/2206/07**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**24/06/2022**	Date of Completion of Test	:	**02/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.68	IS 3025 (Part 11)
2	Colour	Co.pt.	13	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	50.87	IS 3025 (Part – 14)
4	Turbidity	NTU	1.38	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	8.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33068	IS 3025 (Part-16)
7	TOC	mg/L	6.8	APHA (23rd Edition) 5310 B
8	COD	mg/L	66	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3917	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	418	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.13	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	13986	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3174	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.38	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.276	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue…

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0082**
	Issue Date	:	**07/07/2022**
	Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 4 Down Stream(Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	0.97	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	297	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	772	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10168	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	228	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	12.8	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0082** Issue Date : **07/07/2022** Customer's Ref. : **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 4 Down Stream(Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0087**
	Issue Date	**: 21/07/2022**
	Customer's Ref.	**: W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream(Borewell)**

Description of Sample	**: Ground Water sample**		Quantity/No. of Samples	**: 05 Lit./One**	
Date of Sampling	**: 11/07/2022**		Sampling Procedure	**: IS:3025**	
Sampling by	**: Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	**: QC/Env. Monitoring**	
Sample Receipt Date	**: 12/07/2022**		Lab ID.	**: BLD/2207/01**	
Packing/ Seal	**: Sealed**		Test Parameters	**: As per table**	
Date of Starting of Test	**: 12/07/2022**		Date of Completion of Test	**: 21/07/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.54	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	54.05	IS 3025 (Part – 14)
4	Turbidity	NTU	1.48	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	17	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	35130	IS 3025 (Part-16)
7	TOC	mg/L	8.64	APHA (23rd Edition) 5310 B
8	COD	mg/L	73	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4310	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	460	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.53	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15890	APHA (23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3594	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.68	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.43	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0087**
	Issue Date	: **21/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream(Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.28	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	361.6	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	817	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10214	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	237	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	8.93	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0087**
	Issue Date	**21/07/2022**
	Customer's Ref.	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream(Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0088** Issue Date : **21/07/2022** Customer's Ref. : **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **11/07/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **12/07/2022**	Lab ID.	:	**BLD/2207/02**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **12/07/2022**	Date of Completion of Test	:	**21/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.58	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	50.58	IS 3025 (Part – 14)
4	Turbidity	NTU	1.27	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	13	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	32870	IS 3025 (Part-16)
7	TOC	mg/L	8.14	APHA (23rd Edition) 5310 B
8	COD	mg/L	67	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4186	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	456	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.43	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	13298	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3184	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.35	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.378	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. Issue Date Customer's Ref.	: **PL/BLD 0088** : **21/07/2022** : **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.13	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	344	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	798	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10114	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	217	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.70	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. :	**PL/BLD 0088**
	Issue Date :	**21/07/2022**
	Customer's Ref. :	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0089** Issue Date : **21/07/2022** Customer's Ref. : **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **11/07/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **12/07/2022**	Lab ID.	:	**BLD/2207/03**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **12/07/2022**	Date of Completion of Test	:	**21/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.63	IS 3025 (Part 11)
2	Colour	Hazen	4.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.54	IS 3025 (Part – 14)
4	Turbidity	NTU	0.27	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	356	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	158	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	123	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	118	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	9.37	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.078	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0089**
Issue Date	:	**21/07/2022**
Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	26	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	22.32	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	29.73	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	3.85	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0089**
	Issue Date	: **21/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0090**
	Issue Date	**21/07/2022**
	Customer's Ref.	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

Description of Sample	**Ground Water sample**		Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	**11/07/2022**		Sampling Procedure	:	**IS:3025**
Sampling by	**Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	**12/07/2022**		Lab ID.	:	**BLD/2207/04**
Packing/ Seal	**Sealed**		Test Parameters	:	**As per table**
Date of Starting of Test	**12/07/2022**		Date of Completion of Test	:	**21/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.89	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.95	IS 3025 (Part – 14)
4	Turbidity	NTU	0.56	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	618	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	234	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	187	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	228	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	31.95	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.0829	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0090**
	Issue Date	**: 21/07/2022**
	Customer's Ref.	**: W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	65.6	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	16.8	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	71.35	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	6.97	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0090**
	Issue Date	**: 21/07/2022**
	Customer's Ref.	**: W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0091**
	Issue Date	**: 21/07/2022**
	Customer's Ref.	**: W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location	:	**Inside Mandir**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**11/07/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**12/07/2022**	Lab ID.	:	**BLD/2207/05**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**12/07/2022**	Date of Completion of Test	:	**21/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.64	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.65	IS 3025 (Part – 14)
4	Turbidity	NTU	0.39	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	426	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	135	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	123	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	204	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	10.28	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.065	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0091**
Issue Date	:	**21/07/2022**
Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	23.2	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	18.48	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	30.29	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	4.16	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0091**
	Issue Date	**: 21/07/2022**
	Customer's Ref.	**: W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0092**
	Issue Date	**: 21/07/2022**
	Customer's Ref.	**: W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 3 Down Stream (Borewell)**

Description of Sample	**: Ground Water sample**		Quantity/No. of Samples	**: 05 Lit./One**	
Date of Sampling	**: 11/07/2022**		Sampling Procedure	**: IS:3025**	
Sampling by	**: Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	**: QC/Env. Monitoring**	
Sample Receipt Date	**: 12/07/2022**		Lab ID.	**: BLD/2207/06**	
Packing/ Seal	**: Sealed**		Test Parameters	**: As per table**	
Date of Starting of Test	**: 12/07/2022**		Date of Completion of Test	**: 21/07/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.39	IS 3025 (Part 11)
2	Colour	Co.pt.	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	52.72	IS 3025 (Part – 14)
4	Turbidity	NTU	1.45	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	9.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	34268	IS 3025 (Part-16)
7	TOC	mg/L	8.3	APHA (23rd Edition) 5310 B
8	COD	mg/L	65	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3978	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	435	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.47	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	13830	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3208	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.36	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.378	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0092**
	Issue Date	: **21/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 3 Down Stream(Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.04	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	312	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	767	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10143	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	206	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.42	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. :	**PL/BLD 0092**
	Issue Date :	**21/07/2022**
	Customer's Ref. :	**W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 3 Down Stream(Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0093**
	Issue Date	**: 21/07/2022**
	Customer's Ref.	**: W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 4 Down Stream(Borewell)**

Description of Sample	**: Ground Water sample**		Quantity/No. of Samples	**: 05 Lit./One**	
Date of Sampling	**: 11/07/2022**		Sampling Procedure	**: IS:3025**	
Sampling by	**: Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	**: QC/Env. Monitoring**	
Sample Receipt Date	**: 12/07/2022**		Lab ID.	**: BLD/2207/07**	
Packing/ Seal	**: Sealed**		Test Parameters	**: As per table**	
Date of Starting of Test	**: 12/07/2022**		Date of Completion of Test	**: 21/07/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.73	IS 3025 (Part 11)
2	Colour	Co.pt.	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	50.14	IS 3025 (Part – 14)
4	Turbidity	NTU	1.19	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	10	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	32618	IS 3025 (Part-16)
7	TOC	mg/L	6.82	APHA (23rd Edition) 5310 B
8	COD	mg/L	60	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3856	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	428	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.35	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	13572	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3295	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.48	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.356	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0093**
	Issue Date	: **21/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 4 Down Stream(Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.14	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	296	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	747	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10178	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	220	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.73	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0093** Issue Date : **21/07/2022** Customer's Ref. : **W.O. No. 85222230080 Dated:29.04.2022**

Sampling Location : **EB 4 Down Stream(Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0104** Issue Date : **24/08/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **13/08/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **15/08/2022**	Lab ID.	:	**BLD/2208/01**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **15/08/2022**	Date of Completion of Test	:	**23/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.24	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	54.54	IS 3025 (Part – 14)
4	Turbidity	NTU	1.65	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	15	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	35418	IS 3025 (Part-16)
7	TOC	mg/L	7.3	APHA (23rd Edition) 5310 B
8	COD	mg/L	70	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4201	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	360	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.72	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	16599	APHA (23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	4210	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.54	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.58	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0104**
	Issue Date	**: 24/08/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.20	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	226	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	872.6	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	11250	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	255	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	8.8	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0104**
	Issue Date	**: 24/08/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0105** Issue Date : **24/08/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **13/08/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **15/08/2022**	Lab ID.	:	**BLD/2208/02**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **15/08/2022**	Date of Completion of Test	:	**23/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.34	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	50.1	IS 3025 (Part – 14)
4	Turbidity	NTU	1.45	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	12	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	32568	IS 3025 (Part-16)
7	TOC	mg/L	7.0	APHA (23rd Edition) 5310 B
8	COD	mg/L	68	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4261	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	440	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.58	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15999	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3840	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.44	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.36	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0105**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.30	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	242	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	877	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	9840	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	240	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.40	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0105**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0106** Issue Date : **24/08/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

Description of Sample	: **Ground Water sample**		Quantity/No. of Samples	: **05 Lit./One**	
Date of Sampling	: **13/08/2022**		Sampling Procedure	: **IS:3025**	
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	: **QC/Env. Monitoring**	
Sample Receipt Date	: **15/08/2022**		Lab ID.	: **BLD/2208/03**	
Packing/ Seal	: **Sealed**		Test Parameters	: **As per table**	
Date of Starting of Test	: **15/08/2022**		Date of Completion of Test	: **23/08/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.58	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.62	IS 3025 (Part – 14)
4	Turbidity	NTU	0.41	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	311	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	146	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	142	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	110	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	8.40	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.092	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0106**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	24	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	20.69	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	35	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	5.0	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0106**
	Issue Date	:	**24/08/2022**
	Customer's Ref.	:	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : Nr. Gram Panchayat

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0107** Issue Date : **24/08/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **13/08/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **15/08/2022**	Lab ID.	:	**BLD/2208/04**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **15/08/2022**	Date of Completion of Test	:	**23/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.72	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	1.06	IS 3025 (Part – 14)
4	Turbidity	NTU	0.75	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	702	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	229	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	172	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	250	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	36.4	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.095	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0107**
	Issue Date	**: 24/08/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	64	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	16.56	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	73.8	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	8.0	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0107**
	Issue Date	**: 24/08/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0108** Issue Date : **24/08/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **13/08/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **15/08/2022**	Lab ID.	:	**BLD/2208/05**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **15/08/2022**	Date of Completion of Test	:	**23/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.57	IS 3025 (Part 11)
2	Colour	Hazen	4.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.71	IS 3025 (Part – 14)
4	Turbidity	NTU	0.45	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	458	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	149	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	128	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	209	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	13.6	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.068	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0108**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	32	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	16.56	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	33.4	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	5.0	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0108**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0109** Issue Date : **24/08/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. EB 3 Down Stream**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **13/08/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **15/08/2022**	Lab ID.	:	**BLD/2208/016**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **15/08/2022**	Date of Completion of Test	:	**23/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.49	IS 3025 (Part 11)
2	Colour	Hazen	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	53.24	IS 3025 (Part – 14)
4	Turbidity	NTU	1.56	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	13	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	34572	IS 3025 (Part-16)
7	TOC	mg/L	7.2	APHA (23rd Edition) 5310 B
8	COD	mg/L	69	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4307	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	415	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.52	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	16950	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	4010	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.48	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.42	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0109**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. EB 3 Down Stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.15	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	274	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	881	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10180	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	220	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.4	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0109**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. EB 3 Down Stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0110**
	Issue Date	**: 24/08/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location	:	**Nr. EB 4 Down Stream**			
Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**13/08/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**15/08/2022**	Lab ID.	:	**BLD/2208/07**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**15/08/2022**	Date of Completion of Test	:	**23/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.56	IS 3025 (Part 11)
2	Colour	Hazen	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	52	IS 3025 (Part – 14)
4	Turbidity	NTU	1.46	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	11	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33189	IS 3025 (Part-16)
7	TOC	mg/L	7.4	APHA (23rd Edition) 5310 B
8	COD	mg/L	68	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4181	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	440	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.56	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	16244	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3950	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.58	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.29	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0110**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. EB 4 Down Stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.25	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	242	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	858	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10210	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	235	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	8.1	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. :	**PL/BLD 0110**
	Issue Date :	**24/08/2022**
	Customer's Ref. :	**W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. EB 4 Down Stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0115** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**30/09/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**01/10/2022**	Lab ID.	:	**BLD/2209/01**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**01/10/2022**	Date of Completion of Test	:	**08/10/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.39	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	55.78	IS 3025 (Part – 14)
4	Turbidity	NTU	1.47	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	12	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	36243	IS 3025 (Part-16)
7	TOC	mg/L	7.9	APHA (23rd Edition) 5310 B
8	COD	mg/L	76	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4452	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	470	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.84	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15940	APHA (23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3628	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.36	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.55	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0115** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.14	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	380	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	840	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10420	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	240	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.4	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0115** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0116** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **30/09/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **01/10/2022**	Lab ID.	:	**BLD/2209/02**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **01/10/2022**	Date of Completion of Test	:	**08/10/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.59	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	51.96	IS 3025 (Part – 14)
4	Turbidity	NTU	1.32	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	10.4	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33788	IS 3025 (Part-16)
7	TOC	mg/L	7.6	APHA (23rd Edition) 5310 B
8	COD	mg/L	68	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4190	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	436	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.26	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14429	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3286	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.28	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.42	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0116** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.11	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	328	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	808	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10245	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	215	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.8	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : **PL/BLD 0116**
Issue Date : **08/10/2022**
Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0117** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **30/09/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **01/10/2022**	Lab ID.	:	**BLD/2209/03**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **01/10/2022**	Date of Completion of Test	:	**08/10/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.68	IS 3025 (Part 11)
2	Colour	Hazen	3.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.58	IS 3025 (Part – 14)
4	Turbidity	NTU	0.29	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	372	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	130	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	158	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	127	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	10.2	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.089	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0117** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	28	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	14.4	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	27.51	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	4.79	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : **PL/BLD 0117**
Issue Date : **08/10/2022**
Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0118** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **30/09/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **01/10/2022**	Lab ID.	:	**BLD/2209/04**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **01/10/2022**	Date of Completion of Test	:	**08/10/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.82	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.89	IS 3025 (Part – 14)
4	Turbidity	NTU	0.63	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	582	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	156	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	186	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	239	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	32.8	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.094	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0118** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	32	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	18.24	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	63	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	5.75	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : **PL/BLD 0118**
Issue Date : **08/10/2022**
Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0119** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

Description of Sample	: **Ground Water sample**		Quantity/No. of Samples	: **05 Lit./One**	
Date of Sampling	: **30/09/2022**		Sampling Procedure	: **IS:3025**	
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	: **QC/Env. Monitoring**	
Sample Receipt Date	: **01/10/2022**		Lab ID.	: **BLD/2209/05**	
Packing/ Seal	: **Sealed**		Test Parameters	: **As per table**	
Date of Starting of Test	: **01/10/2022**		Date of Completion of Test	: **08/10/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.73	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.67	IS 3025 (Part – 14)
4	Turbidity	NTU	0.32	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	434	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	121	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	137	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	204	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	10.59	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.083	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0119** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	26.6	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	13.44	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	35	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	3.95	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0119** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0120** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. EB 3 Down Stream**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **30/09/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **01/10/2022**	Lab ID.	:	**BLD/2209/06**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **01/10/2022**	Date of Completion of Test	:	**08/10/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.31	IS 3025 (Part 11)
2	Colour	Co.pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	51.64	IS 3025 (Part – 14)
4	Turbidity	NTU	1.32	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	8.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33192	IS 3025 (Part-16)
7	TOC	mg/L	7	APHA (23rd Edition) 5310 B
8	COD	mg/L	64	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4018	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	424	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.35	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14332	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3362	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.28	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.338	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0120** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. EB 3 Down Stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.08	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	298	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	795	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10295	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	190	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.4	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0120** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. EB 3 Down Stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0121** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. EB 4 Down Stream**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **30/09/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **01/10/2022**	Lab ID.	:	**BLD/2209/07**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **01/10/2022**	Date of Completion of Test	:	**08/10/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.63	IS 3025 (Part 11)
2	Colour	Co.pt.	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	50.56	IS 3025 (Part – 14)
4	Turbidity	NTU	1.28	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	9.2	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	32864	IS 3025 (Part-16)
7	TOC	mg/L	6.8	APHA (23rd Edition) 5310 B
8	COD	mg/L	61	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3974	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	416	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.29	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14240	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3286	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.18	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.392	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0121** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. EB 4 Down Stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.04	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	328	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	767	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10185	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	210	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.2	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0121** Issue Date : **08/10/2022** Customer's Ref. : **W.O. No. 8522230080 Dated:29.04.2022**

Sampling Location : **Nr. EB 4 Down Stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR SOIL

QF/7.8/38-EX

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0147**
Issue Date	:	**23/11/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Description of Sample	:	**Soil Sample**			
Date of Sampling	:	**12/11/2022**	Quantity/No. of Samples	:	**02 Kg/Three**
Sampling By	:	**Pollucon Laboratories Pvt. Ltd.**	Sampling Procedure	:	**USEPA/IS 2720 etc.**
Sample Receipt Date	:	**14/11/2022**	Protocol (purpose)	:	**USEPA/IS 2720 etc.**
Packing/ Seal	:	**Sealed**	Lab ID	:	**BLD/2211/07 TO 09**
0Date of Starting of Test	:	**14/11/2022**	Test Parameters	:	**As per table**
Test Method	:	**USEPA/IS 2720 etc.**	Date of Completion of Test	:	**23/11/2022**

TEST RESULT

SR. NO.	TEST PARAMETERS	UNIT	RESULT		
			Near EB-1	Opp. Salt Farm	Near EB-2
1	pH	--	8.43	8.41	8.53
2	Conductivity	µmho/cm	2287	3938	1874
3	Total Suspended Solids	%	1.26	1.92	1.68
4	Total Organic Carbon	%	0.73	0.87	0.45
5	Cadmium BY TCLP	mg/L	Not Detected	Not Detected	Not Detected
6	Fluoride	mg/L	1.58	1.24	0.96
7	Lead Analyzed By TCLP	mg/L	0.21	0.51	Not Detected
8	Copper Analyzed By TCLP	mg/L	0.53	0.47	0.39
9	Chromium Analyzed By TCLP	mg/L	0.26	0.34	0.27
10	Mercury Analyzed By TCLP	mg/L	Not Detected	Not Detected	Not Detected
11	Nickel Analyzed By TCLP	mg/L	0.86	0.78	0.69
12	Cyanide	mg/L	Not Detected	Not Detected	Not Detected
13	Zinc Analyzed By TCLP	mg/L	1.13	0.93	0.567
14	Arsenic Analyzed By TCLP	mg/L	Not Detected	Not Detected	Not Detected
15	PAH	mg/L	Not Detected	Not Detected	Not Detected

ND*: Not Detected

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR SOIL

QF/7.8/38-EX

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	: **PL/BLD 0148**
Issue Date	: **23/11/2022**
Customer's Ref.	: **W.O. No. 8521220053 Dated:20.04.2021**

Description of Sample	: **Soil Sample**		
Date of Sampling	: **12/11/2022**	Quantity/No. of Samples	: **02 Kg/Three**
Sampling By	: **Pollucon Laboratories Pvt. Ltd.**	Sampling Procedure	: **USEPA/IS 2720 etc.**
Sample Receipt Date	: **14/11/2022**	Protocol (purpose)	: **USEPA/IS 2720 etc.**
Packing/ Seal	: **Sealed**	Lab ID	: **BLD/2211/10 TO 12**
0Date of Starting of Test	: **14/11/2022**	Test Parameters	: **As per table**
Test Method	: **USEPA/IS 2720 etc.**	Date of Completion of Test	: **23/11/2022**

TEST RESULT

SR. NO.	TEST PARAMETERS	UNIT	RESULT		
			Opp. Khetan Industries	Near ADM Building	Behind Teqrosh Company
1	pH	--	8.25	8.43	8.64
2	Conductivity	µmho/cm	3093	1712	2739
3	Total Suspended Solids	%	1.42	1.13	1.32
4	Total Organic Carbon	%	0.53	0.57	0.93
5	Cadmium BY TCLP	mg/L	Not Detected	Not Detected	Not Detected
6	Fluoride	mg/L	0.946	1.26	1.42
7	Lead Analyzed By TCLP	mg/L	0.31	Not Detected	Not Detected
8	Copper Analyzed By TCLP	mg/L	0.45	0.324	0.436
9	Chromium Analyzed By TCLP	mg/L	0.132	0.176	0.247
10	Mercury Analyzed By TCLP	mg/L	Not Detected	Not Detected	Not Detected
11	Nickel Analyzed By TCLP	mg/L	0.570	0.64	0.829
12	Cyanide	mg/L	Not Detected	Not Detected	Not Detected
13	Zinc Analyzed By TCLP	mg/L	0.498	0.528	0.876
14	Arsenic Analyzed By TCLP	mg/L	Not Detected	Not Detected	Not Detected
15	PAH	mg/L	Not Detected	Not Detected	Not Detected

ND*: Not Detected

Dr. Arun Bajpai
Lab Manager(Q)

H. T. Shah
Lab. Manager

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

Annexure 6

O/C

Ref.: BEIL/DHJ/2022-23/15

RG147521815IN IVR:8271147521815
RL DAHEJ SO <392130>
Counter No:2,19/11/2022,11:04
To:THE MEMBER SEC,GANDHINAGAR
PIN:382010, Gandhinagar Gujarat HO
From:BEIL INFRAS LTD,DAHEJ
Wt:50gms
Amt:30.00(Cash)

18th November 2022
PCB ID #40137

The Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector -10/A
Gandhinagar- 382010

Sub: Compliance to observations and recommendations of Environmental Audit for the Half year (October 2021 to March 2022)

Dear Sir,

We have submitted half yearly Environment Audit Report for October 2021 to March 2022 to H.O. GPCB Gandhinagar along with fees on 30.06.2022. The audit was carried out by Charotar University of Science & Technology, CHARUST

We would like to bring your kind attention that we are complying to various observations and recommendations of the auditor.

The compliance of the recommendations of the Auditor are enclosed.

We hope that above is in the order.

Thanking You,

Yours faithfully,
For, BEIL Infrastructure Limited

Authorized Signatory

Encl: a/a

CC:
Regional office
Gujarat Pollution Control Board
Bharuch

19/11/22
Post Received
Gujarat Pollution Control Board
BHARUCH

CIN NO. U45300GJ1997PLC032696
Works Office : Plot No. D-43, Dahej Amod Road, GIDC Estate, Dahej, T. Vagra - 392 130, Dist. Bharuch (Gujarat)
Phone : (02641) 291129, E-mail : mistryrg@beil.co.in
Regd. Office : Plot No. 9701-16, GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 226228 Fax : (02642) 222849 E-mail : dalwadibd@beil.co.in

Compliance report of Observations and Recommendations of Half yearly Environment audit of BEIL Infrastructure limited carried out by Charotar University of Science & Technology, CHARUST for the period of October 2021 to March 2022

Sr. No	Auditors Recommendations	Compliance Status
1	Green Belt should be maintained properly.	Complied We have planted 9000 trees within the premises.
2	The environment engineer of the industry should take necessary training on Environment Audit.	Noted and Complied

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: DSM/20042022	Date: 20-04-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	DG Stack
Sample Quantity	---	**Date of Sampling**	19-Apr-2022
Sampling Location	DG Room	**Date of Receipt Sample**	19-Apr-2022
Sample Collected by	Mihir Rana	**Date of Start Analysis**	19-Apr-2022
Sampling Procedure	---	**Date of Completion Analysis**	19-Apr-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	60.15	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	9.42	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	21.03	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No.D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistryrg@beil.co.in Cell no: 9099057365

Regd. Office: Plot No 9701-16,GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: BSM/20042022	Date: 20-04-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	Boiler Stack
Sample Quantity	---	**Date of Sampling**	19-Apr-2022
Sampling Location	BOILER PLANT	**Date of Receipt Sample**	19-Apr-2022
Sample Collected by	Ajit Mahida	**Date of Start Analysis**	19-Apr-2022
Sampling Procedure	---	**Date of Completion Analysis**	19-Apr-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	52.91	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	23.34	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	18.09	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No. D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistryrg@beil.co.in Cell no: 9099057365

Regd. Office: Plot No 9701-16, GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: DSM/19052022	Date: 19-05-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	DG Stack
Sample Quantity	---	**Date of Sampling**	18-May-2022
Sampling Location	DG Room	**Date of Receipt Sample**	18-May-2022
Sample Collected by	Mihir Rana	**Date of Start Analysis**	18-May-2022
Sampling Procedure	---	**Date of Completion Analysis**	18-May-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	60.63	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	10.02	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	21.78	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No.D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistryrg@beil.co.in **Cell no: 9099057365**

Regd. Office: Plot No 9701-16,GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: BSM/14052022	Date: 14-05-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	Boiler Stack
Sample Quantity	---	**Date of Sampling**	13-May-2022
Sampling Location	BOILER PLANT	**Date of Receipt Sample**	13-May-2022
Sample Collected by	Mihir Rana	**Date of Start Analysis**	13-May-2022
Sampling Procedure	---	**Date of Completion Analysis**	13-May-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	41.87	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	22.56	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	18.93	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No. D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistryrg@beil.co.in **Cell no: 9099057365**

Regd. Office: Plot No 9701-16, GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: BSM/08062022	Date: 08-06-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	Boiler Stack
Sample Quantity	---	**Date of Sampling**	07-June-2022
Sampling Location	BOILER PLANT	**Date of Receipt Sample**	07-June-2022
Sample Collected by	Mihir Rana	**Date of Start Analysis**	07-June-2022
Sampling Procedure	---	**Date of Completion Analysis**	07-June-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	40.56	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	21.97	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	19.15	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No. D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistryrg@beil.co.in Cell no: 9099057365

Regd. Office: Plot No 9701-16, GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: DSM/14062022	Date: 14-06-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	DG Stack
Sample Quantity	---	**Date of Sampling**	13-June-2022
Sampling Location	DG Room	**Date of Receipt Sample**	13-June-2022
Sample Collected by	Mihir Rana	**Date of Start Analysis**	13-June-2022
Sampling Procedure	---	**Date of Completion Analysis**	13-June-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	60.11	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	10.49	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	21.28	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No.D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistryrg@beil.co.in Cell no: 9099057365

Regd. Office: Plot No 9701-16,GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: DSM/20072022	Date: 20-07-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	DG Stack
Sample Quantity	---	**Date of Sampling**	19-July-2022
Sampling Location	DG Room	**Date of Receipt Sample**	19-July-2022
Sample Collected by	Mihir Rana	**Date of Start Analysis**	19-July-2022
Sampling Procedure	---	**Date of Completion Analysis**	19-July-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	62.02	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	10.11	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	21.56	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No.D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistryrg@beil.co.in **Cell no: 9099057365**

Regd. Office: Plot No 9701-16,GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: BSM/20072022	Date: 20-07-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	Boiler Stack
Sample Quantity	---	**Date of Sampling**	19-July-2022
Sampling Location	BOILER PLANT	**Date of Receipt Sample**	19-July-2022
Sample Collected by	Mihir Rana	**Date of Start Analysis**	19-July-2022
Sampling Procedure	---	**Date of Completion Analysis**	19-July-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	49.61	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	21.12	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	19.97	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No. D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistrvrg@beil.co.in Cell no: 9099057365

Regd. Office: Plot No 9701-16, GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: DSM/04082022	Date: 04-08-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	DG Stack
Sample Quantity	---	**Date of Sampling**	03-Aug-2022
Sampling Location	DG Room	**Date of Receipt Sample**	03-Aug-2022
Sample Collected by	Mihir Rana	**Date of Start Analysis**	03-Aug-2022
Sampling Procedure	---	**Date of Completion Analysis**	03-Aug-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	61.52	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	10.86	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	21.02	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No.D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistrvrg@beil.co.in **Cell no: 9099057365**

Regd. Office: Plot No 9701-16,GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: BSM/11082022	Date: 11-08-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	Boiler Stack
Sample Quantity	---	**Date of Sampling**	10-Aug-2022
Sampling Location	BOILER PLANT	**Date of Receipt Sample**	10-Aug-2022
Sample Collected by	Mihir Rana	**Date of Start Analysis**	10-Aug-2022
Sampling Procedure	---	**Date of Completion Analysis**	10-Aug-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	50.11	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	20.56	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	20.43	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No. D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistryrg@beil.co.in **Cell no: 9099057365**

Regd. Office: Plot No 9701-16, GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: DSM/15092022	Date: 15-09-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	DG Stack
Sample Quantity	---	**Date of Sampling**	14-Sep-2022
Sampling Location	DG Room	**Date of Receipt Sample**	14-Sep-2022
Sample Collected by	Mihir Rana	**Date of Start Analysis**	14-Sep-2022
Sampling Procedure	---	**Date of Completion Analysis**	14-Sep-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	60.24	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	11.34	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	21.59	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No.D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistrvrg@beil.co.in **Cell no: 9099057365**

Regd. Office: Plot No 9701-16,GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

BEIL INFRASTRUCTURE LTD.

ANALYTICAL RESEARCH & DEVELOPMENT LABORATORY

TEST REPORT

Report No: BSM/15092022	Date: 15-09-2022	Page No: 1/1

Name and Address of the Customer	BEIL INFRASTRUCTURE LIMITED PLOT NO. D/43, DAHEJ-AMOD ROAD, G.I.D.C-DAHEJ-392 130 TALUKA-VAGRA, DIST-BHARUCH (GUJARAT)		
Sample Description	Stack Sampling	**Sample Identification/Code**	Boiler Stack
Sample Quantity	---	**Date of Sampling**	14-Sep-2022
Sampling Location	BOILER PLANT	**Date of Receipt Sample**	14-Sep-2022
Sample Collected by	Mihir Rana	**Date of Start Analysis**	14-Sep-2022
Sampling Procedure	---	**Date of Completion Analysis**	14-Sep-2022

Sr No	Parameters	Permissible Unit	Unit	Results	Method Ref.
1	PM	150	mg/Nm3	52.43	IS:5182 (P-4) 1999
2	SULPHUR DIOXIDE	100	ppm	20.02	IS:5182 (P-2) 2001
3	NITROGEN OXIDE	50	ppm	20.89	IS:5182 (P-6) 2006

Remarks (if Any):

For BEIL Infrastructure Ltd.

ANALYSED BY **VERIFIED BY** **AUTHORIZED SIGNATORY**
MR. SATHISHKUMAR GADDAM

Plot No. D-43 GIDC Dahej, Dist.: Bharuch (Gujarat) Dahej-392130
E-mail-mistrvrg@beil.co.in **Cell no: 9099057365**

Regd. Office: Plot No 9701-16, GIDC Estate, Ankleshwar-393002, Dist.: Bharuch (Gujarat)
CIN No: U45300GJ1997PLC032696

POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE

QF/7.8/38-AQ

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0042**
Issue Date	:	**06/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Location of Sampling	:	**Nr. Main Gate**			
Date of Sampling	:	**29/04/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**30/04/2022**	Lab ID	:	**BLD/2204/01 [A-L]**
Date of Starting of Test	:	**30/04/2022**	Date of Completion of Test	:	**06/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	78.2	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	37.6	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	12.8	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	21.2	80	IS 5182 (Part 6)
5	Ozone (O_3)$^{\$}$	$\mu g/m^3$	14.4	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$^{\$}$	mg/m^3	1.5	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	12.6	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.
$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$. Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016805174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST CERTIFICATE

QF/7.8/38-AQ

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0043**
Issue Date	:	**06/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Location of Sampling	:	**Opp. Khetan Industries**			
Date of Sampling	:	**29/04/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**30/04/2022**	Lab ID	:	**BLD/2204/02 [A-L]**
Date of Starting of Test	:	**30/04/2022**	Date of Completion of Test	:	**06/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	72.8	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	35.2	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	14.9	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	24.4	80	IS 5182 (Part 6)
5	Ozone (O_3)$	$\mu g/m^3$	15.0	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$	mg/m^3	1.10	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	15.9	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.
$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$ Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST CERTIFICATE

Customer's Name and Address :

**M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH**

Test Report No.	:	**PL/BLD 0044**
Issue Date	:	**06/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Location of Sampling	: **Nr. EB-2 Borewell**				
Date of Sampling	: **29/04/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **30/04/2022**	Lab ID	:	**BLD/2204/03 [A-L]**
Date of Starting of Test	: **30/04/2022**	Date of Completion of Test	:	**06/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	66.7	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	30.4	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	10.6	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	18.6	80	IS 5182 (Part 6)
5	Ozone (O_3)$	$\mu g/m^3$	13.6	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$	mg/m^3	0.9	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	6.4	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.
$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3):6.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jaiwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST CERTIFICATE

QF/7.8/38-AQ

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0055**
	Issue Date	**: 21/05/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Nr. Main Gate**				
Date of Sampling	: **11/05/2022**	Sampling Procedure	:	**As per table**	
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**	
Sample Receipt Date	: **12/05/2022**	Lab ID	:	**BLD/2205/01 [A-L]**	
Date of Starting of Test	: **12/05/2022**	Date of Completion of Test	:	**18/05/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	71.8	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	35.7	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	13.1	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	15.2	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	13.9	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.2	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	11.4	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE

QF/7.8/38-AQ

Page: 1 of 1

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0056**
	Issue Date	: **21/05/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Opp. Khetan Industries**				
Date of Sampling	: **11/05/2022**	Sampling Procedure	:	**As per table**	
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**	
Sample Receipt Date	: **12/05/2022**	Lab ID	:	**BLD/2205/02 [A-L]**	
Date of Starting of Test	: **12/05/2022**	Date of Completion of Test	:	**18/05/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	77.8	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	37.7	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	11.8	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	18.2	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	14.4	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.3	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	15.2	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST CERTIFICATE

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0057**
Issue Date	:	**21/05/2022**
Customer's Ref.	:	**W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	:	**Nr. EB-2 Borewell**			
Date of Sampling	:	**11/05/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**12/05/2022**	Lab ID	:	**BLD/2205/03 [A-L]**
Date of Starting of Test	:	**12/05/2022**	Date of Completion of Test	:	**18/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	65.5	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	30.1	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	7.2	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	8.7	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	13.4	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.2	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	6.8	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST CERTIFICATE

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Page: 1 of 1

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0072**
Issue Date	:	**07/07/2022**
Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	:	**Nr. Main Gate**			
Date of Sampling	:	**23/06/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**24/06/2022**	Lab ID	:	**BLD/2206/01 [A-L]**
Date of Starting of Test	:	**24/06/2022**	Date of Completion of Test	:	**30/06/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	72.1	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	38.6	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	11.4	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	20.8	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	11.8	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.3	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	12.4	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST CERTIFICATE

QF/7.8/38-AQ

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0073**
Issue Date	:	**07/07/2022**
Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	:	**Opp. Khetan Industries**			
Date of Sampling	:	**23/06/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**24/06/2022**	Lab ID	:	**BLD/2206/02 [A-L]**
Date of Starting of Test	:	**24/06/2022**	Date of Completion of Test	:	**30/06/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	66.8	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	34.3	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	15.9	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	23.1	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	13.2	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.2	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	9.6	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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TEST CERTIFICATE

QF/7.8/38-AQ

Page: 1 of 1

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0074**
	Issue Date	: **07/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	: **Nr. EB-2 Borewell**				
Date of Sampling	: **23/06/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **24/06/2022**	Lab ID	:	**BLD/2206/03 [A-L]**
Date of Starting of Test	: **24/06/2022**	Date of Completion of Test	:	**30/06/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	59.1	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	31.2	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	9.6	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	15.8	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	10.9	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	0.96	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	6.8	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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TEST CERTIFICATE

QF/7.8/38-AQ

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0084**
Issue Date	:	**21/07/2022**
Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	:	**Nr. Main Gate**			
Date of Sampling	:	**11/07/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**12/07/2022**	Lab ID	:	**BLD/2207/09 [A-L]**
Date of Starting of Test	:	**12/07/2022**	Date of Completion of Test	:	**18/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	60.4	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	31.1	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	10.5	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	12.8	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	11.8	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.0	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	6.8	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST CERTIFICATE

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Page: 1 of 1

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0085**
	Issue Date	: **21/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	: **Opp. Khetan Industries**				
Date of Sampling	: **11/07/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **12/07/2022**	Lab ID	:	**BLD/2207/10 [A-L]**
Date of Starting of Test	: **12/07/2022**	Date of Completion of Test	:	**18/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	56.9	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	27.9	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	12.8	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	11.6	80	IS 5182 (Part 6)
5	Ozone (O_3)$^{\$}$	$\mu g/m^3$	10.8	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$^{\$}$	mg/m^3	0.9	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	9.2	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0086**
	Issue Date	: **21/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	: **Nr. EB-2 Borewell**				
Date of Sampling	: **11/07/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **12/07/2022**	Lab ID	:	**BLD/2207/11 [A-L]**
Date of Starting of Test	: **12/07/2022**	Date of Completion of Test	:	**18/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	49.9	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	24.1	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	7.2	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	7.4	80	IS 5182 (Part 6)
5	Ozone (O_3)$^{\$}$	$\mu g/m^3$	11.2	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$^{\$}$	mg/m^3	0.8	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	4.6	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. :	**PL/BLD 0096**
	Issue Date :	**24/08/2022**
	Customer's Ref. :	**W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Nr. Main Gate**				
Date of Sampling	: **13/08/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **15/08/2022**	Lab ID	:	**BLD/2208/09 [A-L]**
Date of Starting of Test	: **15/08/2022**	Date of Completion of Test	:	**20/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	65.2	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	28.9	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	12.3	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	25.1	80	IS 5182 (Part 6)
5	Ozone (O_3)$^{\$}$	$\mu g/m^3$	21.8	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$^{\$}$	mg/m^3	1.05	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	26.9	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0097**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Opp. Khetan Industries**				
Date of Sampling	: **13/08/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **15/08/2022**	Lab ID	:	**BLD/2208/10 [A-L]**
Date of Starting of Test	: **15/08/2022**	Date of Completion of Test	:	**20/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	55.4	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	21.9	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	8.9	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	16.9	80	IS 5182 (Part 6)
5	Ozone (O_3)$^{\$}$	$\mu g/m^3$	12.1	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$^{\$}$	mg/m^3	0.84	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	22.4	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0098**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Nr. EB-2 Borewell**				
Date of Sampling	: **13/08/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **15/08/2022**	Lab ID	:	**BLD/2208/11 [A-L]**
Date of Starting of Test	: **15/08/2022**	Date of Completion of Test	:	**20/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	48.6	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	23.4	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	10.6	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	17.2	80	IS 5182 (Part 6)
5	Ozone (O_3)$^{\$}$	$\mu g/m^3$	14.9	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$^{\$}$	mg/m^3	0.88	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	20.7	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0111**
	Issue Date	**: 08/10/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	**: Nr. Main Gate**		
Date of Sampling	**: 30/09/2022**	Sampling Procedure	**: As per table**
Sampling by	**: Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	**: Ambient Air Quality Monitoring**
Sample Receipt Date	**: 01/10/2022**	Lab ID	**: BLD/2209/09 [A-L]**
Date of Starting of Test	**: 01/10/2022**	Date of Completion of Test	**: 07/10/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	66.4	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	32.4	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	10.9	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	18.7	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	12.1	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	0.78	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	12.4	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0112**
	Issue Date	: **08/10/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Opp. Khetan Industries**				
Date of Sampling	: **30/09/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **01/10/2022**	Lab ID	:	**BLD/2209/10 [A-L]**
Date of Starting of Test	: **01/10/2022**	Date of Completion of Test	:	**07/10/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	61.2	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	30.8	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	9.9	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	19.4	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	13.2	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	0.64	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	9.2	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE

QF/7.8/38-AQ

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0113**
	Issue Date	**: 08/10/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	**: Nr. EB-2 Borewell**				
Date of Sampling	**: 30/09/2022**	Sampling Procedure	**: As per table**		
Sampling by	**: Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	**: Ambient Air Quality Monitoring**		
Sample Receipt Date	**: 01/10/2022**	Lab ID	**: BLD/2209/11 [A-L]**		
Date of Starting of Test	**: 01/10/2022**	Date of Completion of Test	**: 07/10/2022**		

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	52.6	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	25.2	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	7.2	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	10.5	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	11.4	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	0.70	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	3.8	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

Annexure 9

O/C

BEIL/GPCB/2022-23/13

To,
Unit Head
Hazardous waste cell
Gujarat Pollution control board
Gandhinagar

Date: 22.06.2022
PCB ID # 40137

Subject: Monsoon Planning for Monitoring & Control of Pollution.

Dear Sir,
We have taken following action as Monsoon Planning.

- The entire landfill site is covered with two layers of Tarpaulins to prevent any mixing of rainwater with the hazardous waste. Covering of Landfill photographs is attached for your ready reference
- We are complying with all the CPCB guidelines of operations and maintenance of TSDF.
- We will monitor the Final discharge of our industry for any irregular discharges by any means.
- We shall take all the needed steps so that there is no any contamination.
- We are monitoring Effluent Treatment Plant units, all the Chemical Storage tanks/Hazardous waste storage sites and ensuring that there is no overflow/leakage to the surrounding environment.
- We have already provided a proper Storage Shed of capacity of 40000 MT with appropriate roof and liner system.
- We shall try to identify high rainy days and try to take additional precautions to prevent contamination.
- We are implementing all the relevant guidelines for management plan for used/discarded packaging materials etc.
- We are regularly monitoring & operating Air Pollution Control equipment's / measures efficiently in such a manner that flue gas / process emissions conform to the GPCB norms We are also ensuring that the accidental leakages, fugitive emissions are prevented.
- Entire site is cleaned, and its housekeeping is being maintained to keep it in good condition.
- Green Belt Plan along with its compliance report is attached.

We hope the above adequately meets your guideline for monsoon management.

Thanking you,
Yours faithfully,

For BEIL Infrastructure Limited, Dahej

Authorized Signatory
Encl:

1. Landfill Monsoon Cover Photographs
2. Green Belt Plan and it's compliance

C.C: Regional Officer,
Gujarat Pollution Control Board
Bharuch

Post Received
Gujarat Pollution Control Board
BHARUCH
24/6/22

CIN NO. U45300GJ1997PLC032696
Works Office : Plot No. D-43, Dahej Amod Road, GIDC Estate, Dahej, T. Vagra - 392 130, Dist. Bharuch (Gujarat)
Phone : (02641) 291129, E-mail : mistryrg@beil.co.in
Regd. Office : Plot No. 9701-16, GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 225228 Fax : (02642) 222849 E-mail : dalwadibd@beil.co.in

BEIL INFRASTRUCTURE LIMITED
(formerly known as Bharuch Enviro Infrastructure Limited)
Unit - Dahej

Ref: BEIL/DHJ/OEP/2022-23 February 19, 2022

To,

Dy. Director of Industrial Safety and Health,
2nd Floor, Multi storied Building,
Bharuch.

Subject: Submission of On-Site Emergency Plan for the year 2022-23.

Respected Sir,

Herewith, we are submitting the "On-Site Emergency Plan" updated in January-2022 for the year of 2022-23.

This is for your kind information & record please.

Thanking you,
For, BEIL Infrastructure Limited, Ankleshwar.

Mr. Rajesh Mistry
(Plant Head)

BEIL INFRASTRUCTURE LIMITED • DAHEJ

19/2/2022

CIN NO. U45300GJ1997PLC032696
Works Office : Plot No. D-43, Dahej Amod Road, GIDC Estate, Dahej, T. Vagra - 392 130, Dist. Bharuch (Gujarat)
Phone : (02641) 291129, E-mail : mistryrg@beil.co.in
Regd. Office : Plot No. 9701-16, GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 225226 Fax : (02642) 222849 E-mail : dalwadibd@beil.co.in

BEIL Infrastructure Limited

ONSITE EMERGENCY PLAN

Update On JANUARY, 2022

Plot No # D-43, GIDC Industrial Estate, Dahej – 392130

Ta – Vagra, Dist – Bharuch, Gujarat

On-Site Emergency Plan of M/s BEIL Infrastructure Ltd. Dahej

INDEX

ANNEXURE SECTION

CHAPTER-I

PRELIMINARY

1. INTRODUCTION OF THIS PLAN

Primarily this plan is prepared to furnish details, which may require at the time of the emergency, to delegate responsibility, to estimate the consequences in advance and to prepare ourselves to control any type of EMERGENCY. This plan is in two sections. The first section explains basic requirements as fallow.

- Definition.
- Objectives
- Hazard identification.
- Risk analysis and environmental Impact Assessment.
- Organization setup.
- Communication system.
- Action on site.
- Link with offsite emergency plan.
- Training rehearsal and record aspect.

Second section is given as Annexure Section containing useful Annexure. These annexes are designed to give specific information required during emergency. Ready information in all this Annexure will considerably save time in initiating all actions at the time of emergency. It will also be useful to Govt. for preparing the Area emergency control (Contingent) plan.

A separate chapter is given to pay attention on.

- Offsite effects of any emergency.
- The duties and functions to control it.
- Link with onsite emergency plan.

ORGANIZATION INFORMATION

Full Name & Address of the company:	**M/s. BEIL INFRASTRUCTURE LIMITED** **(Formerly known as BHARUCH ENVIRO INFRASTRUCTURE LTD.)** Plot No D-43,GIDC Estate,Dahej-Amod Road Dahej-392130		
Contact No.: (O): 02641291129 **Factory: 02641291129**	**E-Mail: mistryrg@beil.co.in**		
Telex No.: ----------	**Fax No. : ----**		
Full Name & Address of the occupier :	**Mr. Ashok.A. Panjwani** 5, Shivranjni Society,Near Navsarjan Co-Operative Bank Ltd,GIDC,Ankleshwaqr,Dist-Bharuch	**Contact No:**	
		Off.	**Residence**
		02641291129	**9909994902**
Full Name & Address of the Manager :	**Mr.Rajesh Mistry** A-1, Pavanpuri 1 Bholav, Bharuch-392001	**Contact No:**	
		Off.	**Residence**
		9099057365	**9099057365**

Name of the shift	**Maximum workers at a time**			
	Male	**Female**	**Total**	
General (G)	60	02	62	**ı “workers” include all employees contract workers, trainees, apprentices, etc.**
First (A)	43	**Nil**	43	
Second (B)	11	**Nil**	11	
Third (C)	20	**Nil**	20	
Total Workers	134	2	136	

First person to be contacted in the case of emergency:

Name of the shift	**First person to be contacted in the case of emergency**		
	Name & Designation	**Place of availability**	**Contact No.**
General (G)	**Mr. Rajesh Mistry**	**Office Building**	**7567663153**
General (G)	**Mr. Rajesh Mistry**	**Office Building**	**9099057365**
On Holiday	**Mr. Bhavesh Pancholi**	**Office Building**	**9909996023**

2. IDENTIFICATION OF THE FACTORY

DETAILS OF COMPANY:

M/s. BEIL Infrastructure Limited Dahej, a company incorporated under companies act, 1956, is promoted by various industries in Bharuch district. The main promoter is UPL Ltd group of companies. UPL group is involved in manufacturing Agrochemicals, Industrial &, Specialty Chemicals.

BEIL is pioneer in Hazardous waste management in India. BEIL, has disposed 20 Lacs MT Solid Waste during its 17 years of operation at Ankleshwar Site. BEIL is operating the TSDF Facility as per the Guidelines published by Central Pollution Control Board (CPCB). BEIL have implemented Environmental Management System Standards ISO 14001 and Occupational Health & Safety Assessment Standards OHSAS 18001. BEIL laboratory have got NABL and MOEF Accreditation.

Adjoining Properties:	
North side	M/s Tegros chemical ltd & M/S Indian Peroxide Limited
East side	Dahej-Aamod road
West side	Sea
South side	M/s Bharat Rasayan limited

(B) Regd. Office Address

Plot No. 117-118, GIDC Estate,
Ankleshwar 393 002
Dist.: Bharuch (Gujarat)

2. Full Name & Designation of the Occupier

Mr. Ashok A. Panjawani (Director)

3. Office Address & Telephone No. Of Occupier

BEIL Infrastructure Ltd.,
9701 - 9716, GIDC Industrial Estate,

Ankleshwar- 393 002

Dist. Bharuch,

Gujarat State

Office Tel.No. : (02646) 253135, 225228

Residential Tel. No. : 9909994902

4. Persons to be contacted first in case of emergency

Name & Designation	Place of availability	Residence
Mr. Rajesh Mistry	ADM	**9099057365**
Mr. Bhavesh Pancholi	ADM	**9909996023**

Pls. refer annexure - 1

3. MAP OF THE AREA

M/s. BEIL Infrastructure Ltd., is located at d-14 Plot No D-43,GIDC Estate,Dahej-Amod Road Dahej-392130 Bharuch, Gujarat State. It is 70 km. away from Bharuch Railway Station.

Pls. refer annexure – 2

4. DEFINITIONS

Various definitions on different analogy used on Onsite & off site Emergency Plan are as below:

An accident is an unplanned event, which has a probability of causing personal injury or property damage or both. It may result in physical harm (injury or diseases) to person(s), damage to property, and loss of company, a near miss or any combination of these effects.

A major accident is a sudden, unexpected, unplanned event, resulting from uncontrolled developments during an industrial activity, which causes, or has the potential to cause –

i. Serious adverse effect immediate or delayed (death, injuries, poisoning or hospitalization.) to a number of people inside the installation and /or to persons outside the establishment, OR

ii. Significant damage to crops, plants or animals, or significant contamination of land, water, or air, OR

iii. An emergency intervention outside the establishment (e.g.: evacuation of local population, stopping of local traffic), OR

iv. Significant changes in the process operating conditions, such as stoppage or suspension of normal work in a concerned plant for a significant period of time, OR

v. Any combination of above.

An emergency could be defined as any situation which presents a threat to safety of persons or/and property. It may require outside help also.

A major emergency occurring at a work is one that may affect several departments within it and or may cause serious injuries, loss of life, extensive damage to property or serious disruption outside the works. It will require the use of outside resources to handle it effectively.

Usually the result of malfunction of the normal operating procedures, it may also be participated by the intervention of an outside agency, such as severe electrical storm, flooding, crashed air craft or deliberate acts of arson or sabotage.

Emergency due to operating conditions (uncontrolled reactions, small fire, small gas leak, spill, failure of power, water, air, steam, cooling media, scrubbing media, etc.) is not considered as a major emergency. Operating instructions in the safety manual shall cover this area, though the on-site emergency plan will also be helpful.

Disaster is a catastrophic situation in which the day-to-day patterns of the life are, in many instances, suddenly disrupted and people are plunged in to helplessness and suffering and as a result of need protection, clothing, shelter, medical and social care and other necessities of life, such as –

1. Disaster resulting from natural phenomena likes earthquake, volcanic eruptions, storm, surges, cyclones, tropical storms, floods, landslides, forest fires, and massive insect infestation. Also in this group, violent draught which will cause a creeping disaster leading to famine, disease, and death must be included.

2. Second group includes disastrous events occasioned by man, or by man's impact on environment, such as armed conflict, industrial accidents, factory fires, explosions and escape of toxic gases or chemical substances, river pollution, mining or other structural collapses; air sea, rail and transport accidents, air crafts crashes, collisions of vehicles carrying inflammable liquids, oil spills at sea, and dam failure.

Environment as defined u/s 2(a) of the Environment Protection Act includes water, air, and land and the inter relationship which exists among and between water, air and land and human beings, other living creatures, plants, micro-organism and property.

Environmental pollutant defined by the same Act as any solid, liquid or any gaseous substance present in such concentration as may be or tend to be injurious to environment.

Hazardous substance is also defined by the same Act and Hazardous process is defined by Section 2(cb) of the F.A.1948.

Hazard is a physical situation which may cause human injury, damage to property or the environment or some combination of these criteria.

Chemical hazard is a hazard due to chemical (including its storage, process, handling etc.) and it is realized by fire, explosion, toxicity, corrosivity, radiation, etc.

Risk is the likelihood of an undesired event (i.e. accident, injury or death) occurring within a specific period or under specified circumstances. It may be either a frequency or a probability depending on the circumstances.
As per example risk of death for a man aged 30 is 1x10-3 per annum and that for a man aged 60 is 1x10-3 per annum.

Individual risk is the frequency at which an individual may be expected to sustain a given level of harm from the realization of specific hazards.

Social risk is a measure of the chances of a number of people being affected by a single event or set of events and is often presented as f/n curves (i.e. frequency v/s number of people affected).
The On-Site Emergency Plan deals with measures to prevent and controls emergency with the factory and not affecting outside public or environment.

The off-Site Emergency Plan will deal with measures to prevent and control emergencies affecting public and the environment outside the premises. The manufacturer should provide the necessary information on the nature, extent and likely effects of such incidents.

The Contingent or Disaster Plan of the area will be developed by the district or local authority based on the on-site and off-site emergency plan of individual units in that area.

5. OBJECTIVES OF THE EMERGENCY PLAN

It is the policy of M/s. BEIL Infrastructure Ltd. That each individual should be aware of and understand his role in case of fire or explosion, or toxic release of gases/material.

The purpose of the preparation of disaster control plan is to work out as much details as possible for the likely events and prepare the instructions to point out action to be taken by individuals in case of fire or explosion or toxic release in the plant and surrounding areas. This is apart from the action taken by the process personnel, which will be according to their plant emergency procedures. These instructions are general in nature; however, it must be borne in mind that instruction of this nature cannot detail

every action required in every situation which may arise. The action of each individual is described to minimize confusion and speed up action.

The key objectives of Emergency Plan are:

1. To define and assess emergency, including risk and environmental impact assessment
2. To control and contain incidents.
3. To safeguard employee and people in vicinity.
4. To minimize damage to property or/and the environment.
5. To inform employees, the general public and the authority about the hazards/risks assessed, safeguards provided, residual risk if any and the role to be played by them during emergency.
6. To be ready for 'mutual aid' if need is arising to help neighboring unit. Normal jurisdiction of OEP is the own premises only, but looking to the time factor in arriving the external help or off-site plan agency, the jurisdiction must be extended outside to the extent possible in case of emergency occurring out side
7. To inform authorities and mutual aid centers to come for help.
8. To effect rescue and treatment of casualties. To count injured.
9. To identify and list any dead.
10. To inform and help relatives.
11. To secure the safe rehabilitation of affected areas and to restore normalcy.
12. To provide authoritative information to the news media.
13. To preserve records, equipments etc. and to organize investigation in to the cause of the emergency and preventive measures to stop its reoccurrence.
14. To ensure safety of works before personnel re-enter and resume work.
15. To work out a plan with all provisions to handle emergencies and to provide for emergency preparedness and the periodical rehearsal of the plan.

On site emergency plan: Statutory requirement

- **Factory Act 1948, Section 41-B (4):** It requires to draw up an Onsite Emergency Plan with detailed Disaster Control Measures for the Factory and to educate the workers employed in the factory premises.
- **Rule 13 of the Manufacture, Storage, and Import of Hazardous Chemicals Rules, 1998:** Preparation of Onsite Emergency Plan by the occupier.

It is obligatory by Rule 15 of MSIHC-1989 on the part of an Occupier of hazardous chemicals to prepare an emergency plan and to take appropriate steps to inform the 'Do's and Don'ts' which should be adopted in the event of major accident.

CHAPTER-II

RISK & ENVIORNMENTAL IMPACT ASSESSMENT

1. FACTORY LAYOUT

Pls. refer Annexure – 3

2. STORAGE HAZARDS & CONTROLS

Products & raw materials

Main process of M/s BEIL Infrastructure Limited is to treat, store and transport hazardous waste generated by member units at TSDF. This is a nonmanufacturing Industry. No any product is produced here except heat recovered from incineration process.

Core activity of the industrial unit is to protect environment by providing efficient treatment facility of industrial hazardous waste.

List of raw material

BEIL is TSDF facility of Industrial Hazardous waste; this is a nonmanufacturing Industry. No any product is produced hence no RM has been used but following RM used which is required to treat waste.

1) NaOH
2) Lime
3) Carbon; and
4) Furnace oil/ coal (as a fuel)
5) High HCV waste
6) Aqu. waste

Pls. refer Annexure – 4 for storage hazards & controls

MSDS of chemicals are also provided.

Pls. refer Annexure – 5 for MSDSs

3. PROCESS & VESSEL HAZARDS & CONTROLS

BEIL Infrastructure is having two main facilities first one is common hazardous waste treatment, storage and disposal facility (Landfill of Hazardous waste) and second one is

Incineration (including Incinerator with heat recovery and MEE and storages of Incinerable waste) and others are drum decontamination.

A) LAND FILL SITE

OPERATIONAL METHODOLOGY OF TSDF

1) Waste Acceptance Criteria

- The generator should have Authorization for disposal as per Hazardous Waste (Management, Handling & Tranboundary Movement) Rules, 2008.
- At the time of taking membership, the company is doing complete analysis of solid waste and the same sample is preserved for further physical verification.
- As the dumper comes to site, it is weighed and, samples are taken from 3 different location and composite sample is made and analyzed for following quick parameters:

- pH
- PFLT test for moisture content
- Odour
- Flammability
- Compatibility
- Physical state
- LRT
- Annealing loss

Only if the sample passes through above quick tests it is allowed to enter the disposal site.

2) Manifest System

We have manifest system as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008. Manifests are six copies in different colors. However, GPCB has introduced an online manifest system for waste acceptance. At present, the online system is being followed. (GPCB- XGN generated manifest)

3) Transportation of Hazardous Solid Waste from Generation Site to TSDF

Transportation of hazardous solid waste is done as per guidelines of CPCB. The TSDF is having approved transporter with dedicated vehicles (Hydraulic) for transportation of solid waste. All the vehicles are having the nameplate with details of company's name, address,

phone no., etc. During transportation, containers are closed from all sides and covered from top.

4) Weighing and Sampling of Waste

As the dumper enters weighbridge, samples are taken from three different locations and a composite sample is made. Once the quick test is passed, truck is allowed to enter the premises. If any truck does not meet the Hazardous solid waste inlet specification, it is returned back to member industry for necessary treatment.

5) Operation of TSDF dumping area

The dumper carrying the hazardous waste is first subjected to quick tests and if it is approved by QA, the hydraulic dumpers are sent for unloading in landfill area. The operation of land filling area is cell wise.

6) Ground Water Sampling and Analysis

Provided monitoring wells at the site for ground water monitoring. There are twelve electric bore wells. Four wells at the upstream and four wells at the downstream. Three additional wells are provided at the downstream side of Phase-II (new site). The monitoring parameters are analyzed as per the guidelines given by the CPCB. Company has laboratory facility for analysis of bore well water. Monitoring is done once in Month.

7) Leachate Management System

Cell-wise leachate collection wells are provided. There are 6 number of Leachate well for closed site and 7 leachate well for the continue Phase-II. Leachate is pumped out from leachate wells to tankers and is sent to the M/s. ETL (CETP), Ankleshwar for treatment & disposal and part of it is being treated in MEE plant.

8) Gaseous Emission Management

Provided air vents at the closed portion of the land fill. We are regular monitoring of these vents for VOC & HC.

9) Closure and post closure maintenance details for closed cells including vegetative stabilization:

Provided coverage system with vegetative cover area as per CPCB criteria for Phase-I cells. The closed portion is given proper landscape.

We are providing storage shade on operational cell during monsoon period. The main operational site is kept covered by tarpaulin with separate rain water collection system during monsoon.

10) Surface Water Drainage System

The storm water drainage system is provided at the site. The surface water generated during rainy season is collected through storm water system and after filtration, recharged to ground water through water harvesting system.

11) Site Infrastructure:

(a) We have established administrative and site control office with latest equipment like computers & computerized weigh-bridge, printers, fax, Xerox machine with scanning etc.

(b) We have provided with a well-equipped laboratory. For sampling and analysis of solid wastes, air, leachate and observation borewell water, Incinerable waste. The laboratory is accredited by national Accreditation Board for Analytical Laboratory (NABL).

(c) Peripheral roads have been constructed near the Incinerable waste storage sheds.

(d) Three additional storage sheds are constructed for Incinerable wastes. At present, there are a total 10 sheds for storage of Incinerable wastes.

(e) Stabilization facility is provided for wastes that require treatment/stabilization before disposal in landfill.

(f) Green belt details:

We have developed green belt in and around our site and have planted more than 5000 trees.

12) Safety and pollution control i.e. traffic, noise, odour, litter, bird control, vermin and other pests, dust, mud on road, landfill fire control, landfill safety aspects.

- Usage of PPE's like gum boots, glove, gas mask by the person-working site.
- Avoiding manual operation. The company is using hydraulic dumpers for transportation of wastes, no manual unloading is required for wastes.
- The company is utilized bulldozers for separating and compacting the wastes

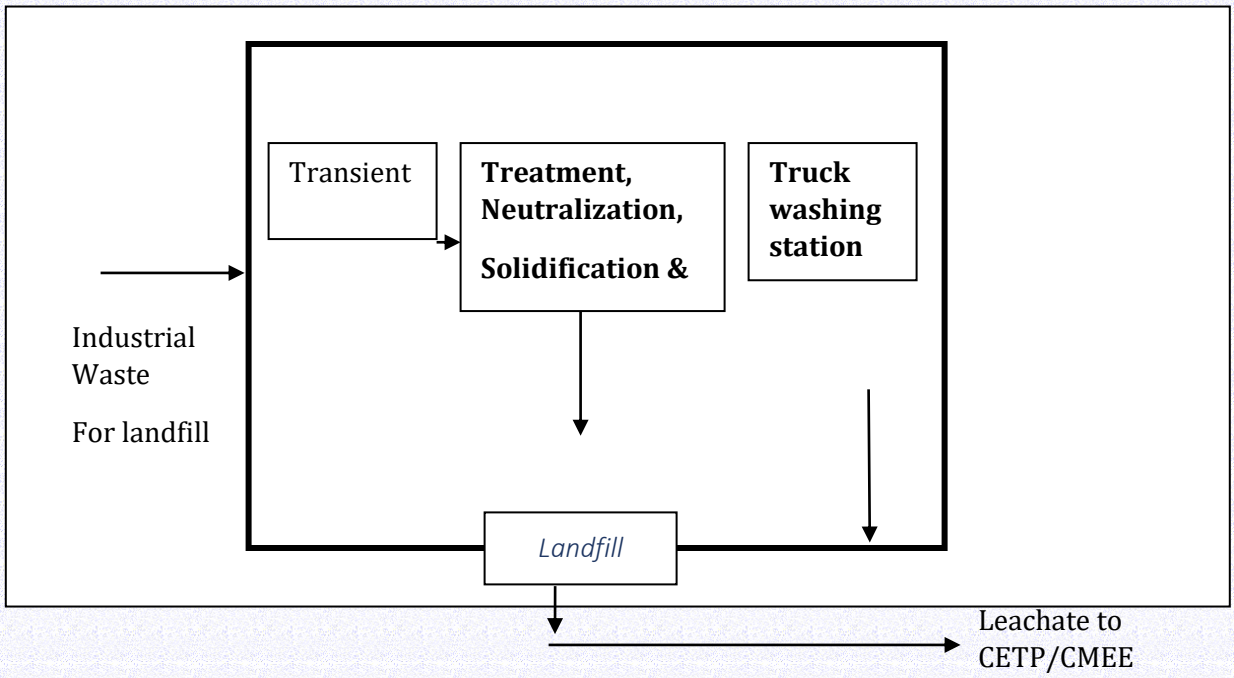
- The company is checking the ignitability and compatibility of wastes before dumping the wastes to the site it is helping in fire control and any reactivity after disposal.
- There are not many noise making equipment used at site
- The company has procured road-sweeping machine for maintaining good housekeeping of roads.
- Odour control is being done with control of the characteristics of wastes being received. Closed handling system is used.
- The used area is covered with soil, which helps in control of vermin / insect / pests etc.
- Drivers are given training for handling hazardous wastes at the disaster prevention and management centre at Ankleshwar.
- Routine inspection of vehicles is done.
- On site emergency plan is prepared.

13) Closure and Post Closure Plan:

Completed landfill site has been provided top cover with vegetative cover of approx 36,360 sq.m. area. The closed portion is given proper landscape. The surface water generated during rainy season is collected through storm water system and after filtration, recharged to ground water through water harvesting system. The covered portion is maintained properly and inspected by civil engineer.

A post closure fund is allotted and is being collected from all the member industries.

Flow diagram of landfill facility



B) INCINERATION DETAILS:

The unit has set up common incineration systems in the year 2022 at the same site. The incineration systems are as rotary kiln type with post combustion chamber, lime slurry absorption with spray dryer plant, dry scrubber, bag filter, wet scrubber, ID fan. The systems can treat solid wastes/liquid waste/sludge generated by the industries.

Incinerator Plants with Heat Recovery and Evaporation system

The incineration systems are set up with same capacity and air pollution control system. In the incinerators, additionally Heat Recovery System along with Multiple Effect Evaporation System is incorporated. The incineration plant is designed as per CPCB Guideline.

All required basic infrastructure facilities – like Storage System, Waste charging system, Fire Hydrant System, Laboratory is already available at the site. The incineration system consists of feeding system, dual burners (natural gas or liquid waste), rotary kiln, secondary combustion chamber, Spray Dryer Absorber lime, bag filter, wet scrubber, ID Fan, continuous monitoring system and chimney.

The chimney has been designed with a capacity considering incinerator.

List of Incinerator Equipment's:

The proposed incineration facility would have the following major equipment:

- Rotary Kiln
- Second Combustion Chamber
- Heat Recovery Boiler
- Spray Dryer Absorber
- Bag Filter
- Wet Scrubber
- ID Fan
- Chimney

INCINERATOR OPERATING PROCEDURE:

- **Rotary Kiln**

To maintain designed heat capacity of the kiln, quantity of the solid waste injection package (kg/single injection) is maintained w.r.t. calorific value of the waste feed. Slope of approx. 1.5 degrees, appropriate rotation rates and solid

waste residence time of 90 min is in accordance to achieve total organic carbon (TOC) and loss on ignition (LOI) requirements in the ash/slag. In the rotary kiln, the temperature is maintained at 800+°C to ensure complete burning of solid waste. Controlled flow of air is ensured for complete volatilization of solid waste

• Second Combustion Chamber

Minimum temperature of 1100°C is ensured in the secondary combustion chamber. The operating conditions demonstrate a minimum of 2 seconds residence time in the secondary combustion chamber to bring complete combustion of volatile matter revolved from the primary combustion chamber. The natural gas is used as auxiliary fuel to maintain the temperature. The high calorific value waste can also be injected to maintain temp. The aqueous waste spray also helps in maintaining heat load. The ash from the kiln as well as the post combustion chamber is collected in the submerged ash conveyor at the bottom of this chamber. Negative pressure is maintained here. An Emergency vent is also provided on the top of this chamber.

• Heat Recovery Boiler

The flue gas from second combustion chamber enters at Temperature of 1100º C in waste heat recovery Boiler and convert the water in to steam by heat transfer. Outlet Temperature of flue gas from Heat recovery Boiler will be 450° C. The steam generated from Heat Recovery Boiler is used to operate the Multiple Evaporation system.

• Spray Dryer Absorber

The old incinerators have dry lime scrubbing system for SO2 and HCL gas removal. Now lime spray dry absorber is planned. This allows better control in case of variation in feed composition in terms of incinerator feed – Chloride and Sulfur. Solid waste having a little more chloride and sulfur can be treated. Bleed Water containing 12% Sodium Sulfite and 1% unreacted caustic will be used for preparation of 15% Lime slurry to be fed to SDA. So there is no generation of liquid effluent from Incineration plant.

• Bag Filter

The cooled gas from gas conditioning tower of heat recovery system, after injection of Lime / Carbon, enters in to the bag filter chamber. The deposited used lime is discharged in the dust collection system. The dust free flue gas goes to wet scrubbing system. Temperature less than 250ºC is maintained.

• Wet Scrubber

Wet Scrubber ensures the removal of remaining acidity from the flue gas as well as temperature reduction to 80ºC, using Caustic. The Scrubber water is recycled to the gas cooling tower of the waste heat recovery boiler.

- ID Fan and Chimney ID Fan will provide required negative draft in the entire incineration system. The discharge of ID Fan is connected to the stack of 45 M height. Sampling points and CEMS
    - Multiple Effect Evaporation system
    - Ash Handling System
    - Control Panel
    - Emergency Power Supply
    - MCC Panel
    - Fire Hydrant System; and
    - Video Camera for monitoring

INCINERATORS WITH HEAT RECOVERY BOILER AND EVAPORATION SYSTEM PROCESS DISCREPTION:

Rotary Kiln

It is pre-heated to 750º C using natural gas. Its operating temperature will be 850 ± 50º C. The waste feeding is started when the temperature reaches 800º C using various types of feeding mechanisms provided. The kiln is rotating in clock-wise direction with Girth gear and drive mechanism. The vacuum to be maintained at –10 to –5 mm wc in order to take out the flue gas to chimney. The solid retention time is 90 mins. Pneumatic ceiling is provided at front end to avoid entry of air.

Post-Combustion Chambers

In the post-combustion chamber temperature is maintained above 1100°C as per CPCB guidelines and the gas retention time is above 2 Seconds. The natural gas is used as auxiliary fuel to maintain the temperature. The high calorific value waste can also be injected to maintain temp. The aqueous waste spray also helps in maintaining heat load. The ash from the kiln as well as the post combustion chamber is collected in the submerged ash conveyor at the bottom of this chamber. The negative pressure inside the chamber is –10 to –15 mm wc. The entire volatile organic compound is thermally degraded in this chamber. An emergency vent is provided on the top of this chamber.

On the Top of this chamber two out let duct lines are provided. One is directly connected with main Evaporative cooler and the second one is for diverting the hot flue gases to waste heat recovery boiler.

Waste Heat Recovery Boiler

The flue gas from Post combustion chamber enters at Temperature of 1100º C in waste heat recovery Boiler and convert the water in to steam by heat transfer. Out let Temperature of flue gas from Heat Recovery Boiler will be 400º C.

The steam generated from Heat Recovery Boiler is used to operate Evaporation system.

Gas Conditioning Tower of Waste Heat Recovery Boiler

The function of this chamber is to cool the gas coming from waste heat recovery boiler from 400º C to 220º C with the water sprays provided

Spray Dryer Absorber

When the heat recovery Boiler will not be under operation the Spray Dryer Absorber of Incineration plant will be taken in the line to cool the flue gas coming from secondary combustion chamber. The flue gas will enter with a temperature more than 1100 º C. To cool the flue gas water spray will be utilized. The atomized water particles absorb the heat of flue gas and get evaporated inside the chamber with considerable drop in the Temperature. The pressure in this chamber will be –50 to – 20 mm Wc.

Bag filter

The Bag Filter is having Teflon Bags. The cooled gas from the evaporative cooler or from Gas Conditioning Tower of Heat Recovery System, after injection of Lime / Carbon, enters in to the Bag Filter chamber. The bag filters operate on the principle of pulse jet. Pneumatically operated valve controls the pulse jet operations. The deposited used lime is discharged in the dust collection system. The dust free flue gas goes to wet scrubbing system.

Considering the material of construction of the bags i.e. Teflon, proper care is taken to maintain the temperature less than 250 Deg C at the inlet of Bag Filter. The pressure drop across the bag filter is controlled by avoiding deposit of lime on the bags.

Wet Scrubber

The function of the Wet Scrubber is to remove remaining acidity from the flue gas. Caustic solution is circulated in the scrubber. This scrubber is made of FRP+FRV and is having packing. Before entering the wet scrubber, with the scrubber solution, the flue gas is cooled from 200 Deg. C to 80 Deg. C. The scrubbed solution is partly evaporated or it is sent to CETP for treatment and disposal or treated in Evaporation System and generated condensate send to CETP for treatment and disposal

ID Fan and chimney

ID Fan will provide required vacuum in the entire incineration system. The discharge of ID Fan is connected to the chimney. The new chimney is made of concrete with 45 M height. Sampling points are provided at 22 M height.

Submerged Ash Conveyor

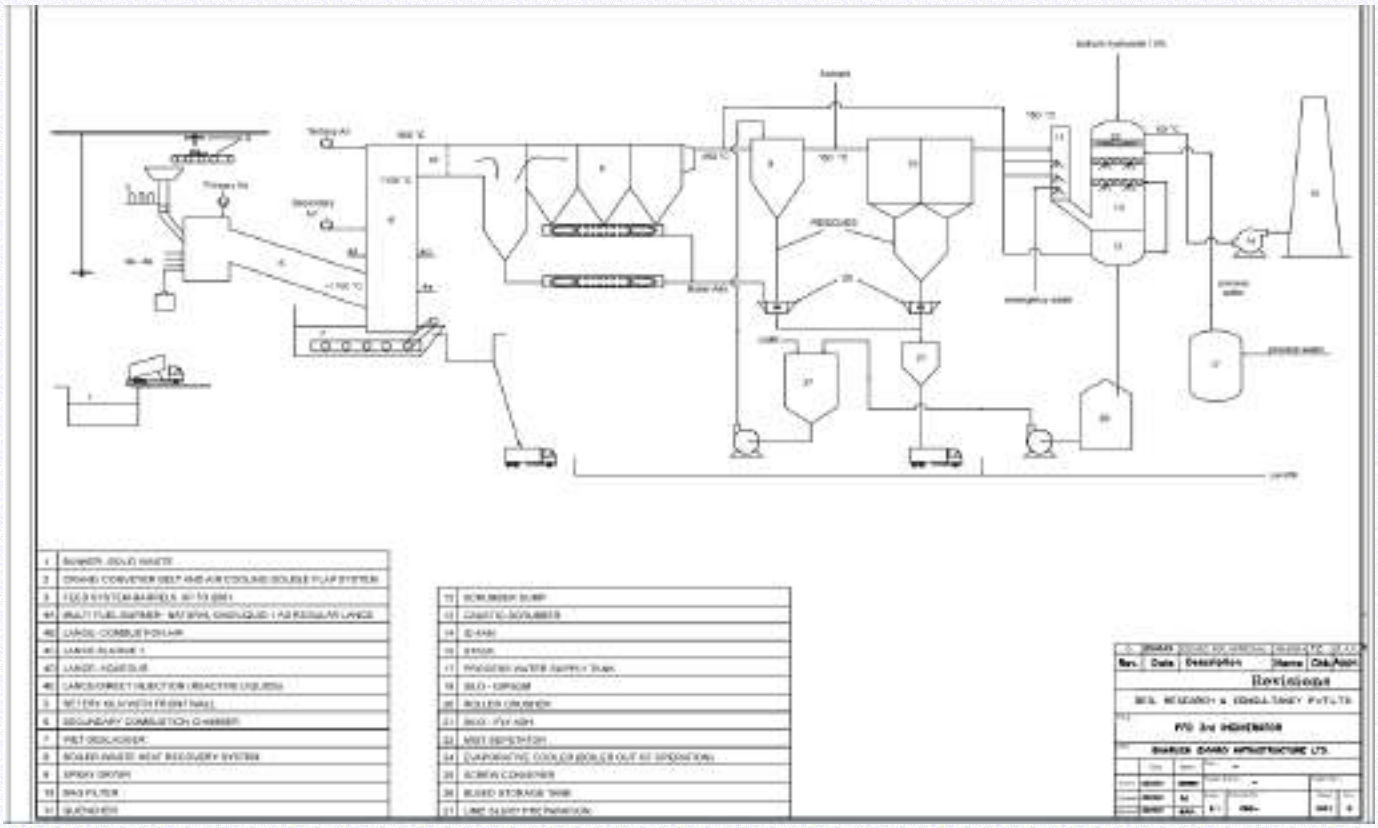
The ash generated from the incineration system is collected in the submerged ash conveyer. The collected ash is disposed off in the landfill.

Multiple Effect Evaporation system:

The Multiple Effect Evaporation System having 3 stages with striper and spray dryer. Steam generated from Heat Recovery Boiler is taken for evaporation. The system can evaporate effluent with high dissolved solids and the salt can be collected from the last stage.

A stand-by Boiler is also arranged for availability of steam when the incineration plant is not in operation or any other maintenance problem. This will help in better operation of the MEE System.

Incineration plants with Heat Recovery Boiler



Multi Effect Evaporation Plant Flow Diagram

The Multiple Effect Evaporation System having 3 stages with striper and centrifuge have capacity of 15TPH. Steam generated from boiler is taken for evaporation. The system can evaporate effluent with high dissolved solids and the salt can be collected from the last stage.

In this system the leachate generated from landfill, effluent generated from Common Facility for De-contamination & De-toxification of Packing Material/Tanker is treated. The generated condensate is reused/used in gardening. The generated salt from MEE plant is send for disposal at secured landfill of BEIL.

Process description of evaporation system:

The feed pump shall pump the liquid effluent to Calandria C1 through series of preheater. The preheater preheats the effluent from ambient temperature to approx 85 – 90 deg C. So that the vaporization start taking place as it enters in Calandria C1.

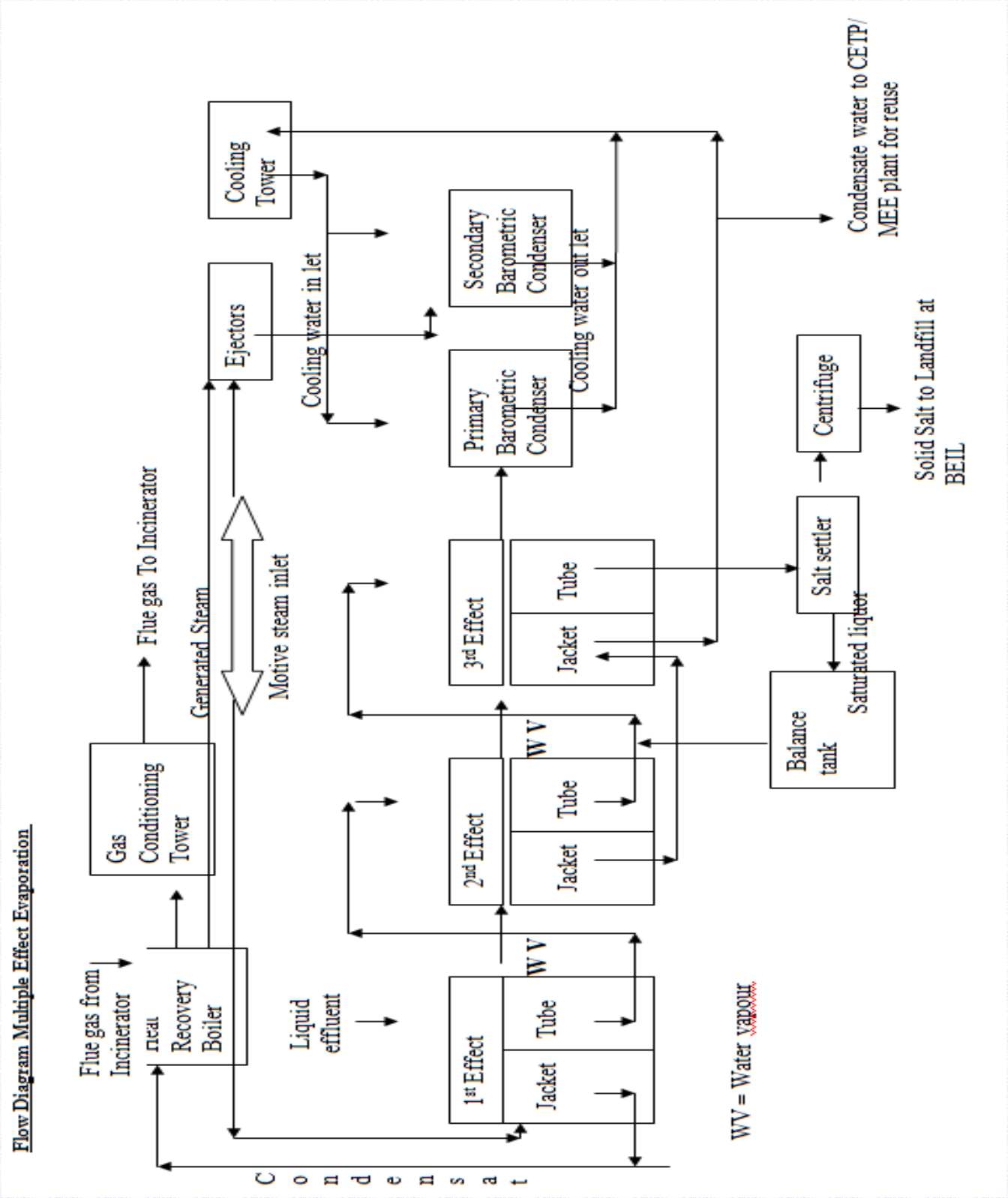
In Calandria C1 preheated effluent shall be recirculated in tubes with high velocity. To enhance the evaporation process under vacuum and steam is supplied on jacket side of Calandria C1 . Evaporation process will take place in vapour separator. Liquid will continuously recalculated through the tubes of Calandria, where sensible heat transfer will take place between steam and effluent flowing through the tubes. Effluent is allowed to flash in the vapour separator under vacuum. This flash vapour will be utilized for evaporation in second effect. Concentrated liquor shall send to suction of recirculation pump 02 by gravity from overflow of vapour separator-1.

The Vapour shall giveaway the heat to the concentrated mother liquor flowing in tube of Calandria C2. The forced circulation Calandria C1& C2 will concentrate the feed effluent below the saturation limit so that crystallization does not take place.

The water vapour generated from Vapour separator 03 is finally condensed in direct contact type primary condenser. The concentrated salt slurry shall be transferred to salt settler where salt are settled at bottom and overflow of saturated liquid will transfer to evaporator through Balance Tank and resend to Calandria 02 and 03. Salt slurry will transfer through gravity to centrifuge from where solids are filtered out and saturated liquor send back to evaporator. Only solid from Centrifuge come out from the plant and will be sent to the Secure landfill of BEIL.

The motive steam supplies in Calandria 01. The steam shall condense in Calandria 01 and the water vapour generated in Vapour separator 01, 02 & 03 shall condense in Calandria 2 & 3 jacket shall be collected in condensate Pot.

The clear water generated by Multiple Effect Evaporation Plant shall be reused in Common Facility for De-contamination & De-toxification of Packing Material/Tanker.



[D] SPRAY DRYING PLANT:

PROCESS DESCRIPTION

1) Air is passed through a direct fired air heating system using FO/CNG and hot air is sent to drying section for drying purpose.

2) Feed is sent to atomization system for uniform atomization. Feeding is done at controlled rate.

3) The feed material and hot air come in contact with each other and drying takes place. The moisture removed from the product is carried out away by the exhaust air.

4) The exhaust gas is then passed through cyclone separator for fines recovery. The product is separated and collected at the bottom.

5) Exhaust air is further passed through an adjustable throat venture scrubber with secondary spray with droplet and swirller flusher arrangement.

6) Clean air is then exhausted to the atmosphere.

7) The entire operation of the plant is controlled through a local operating panel.

[D] MAP+ASP/ RO PLANT:

INTRODUCTION & PROCESS DESCRIPTION

Bharuch Enviro Infrastructure Limited (BEIL) Dahej have installed Common Triple Effect Evaporator (MEE) with Spray Dryer to provide facility for treatment for high COD/High TDS effluent generated by member industries, which are not being treated by conventional treatment. During operation we observed that MEE condensate contains organic impurities and cannot be used for in house industrial application. Hence after study we propose the scheme of condensate treatment by biological treatment followed by Reverse Osmosis. The treated water will be used for floor washing, Drum/Tankers washing, Toilet flush water and Gardening.

The Condensate is collected at site in 600 m3 RCC tank having four days residence time to equalise the load. Since condensate water contain high Ammoniacal Nitrogen, Magnesium Ammonium Phosphate (MAP) treatment is planned before secondary treatment.

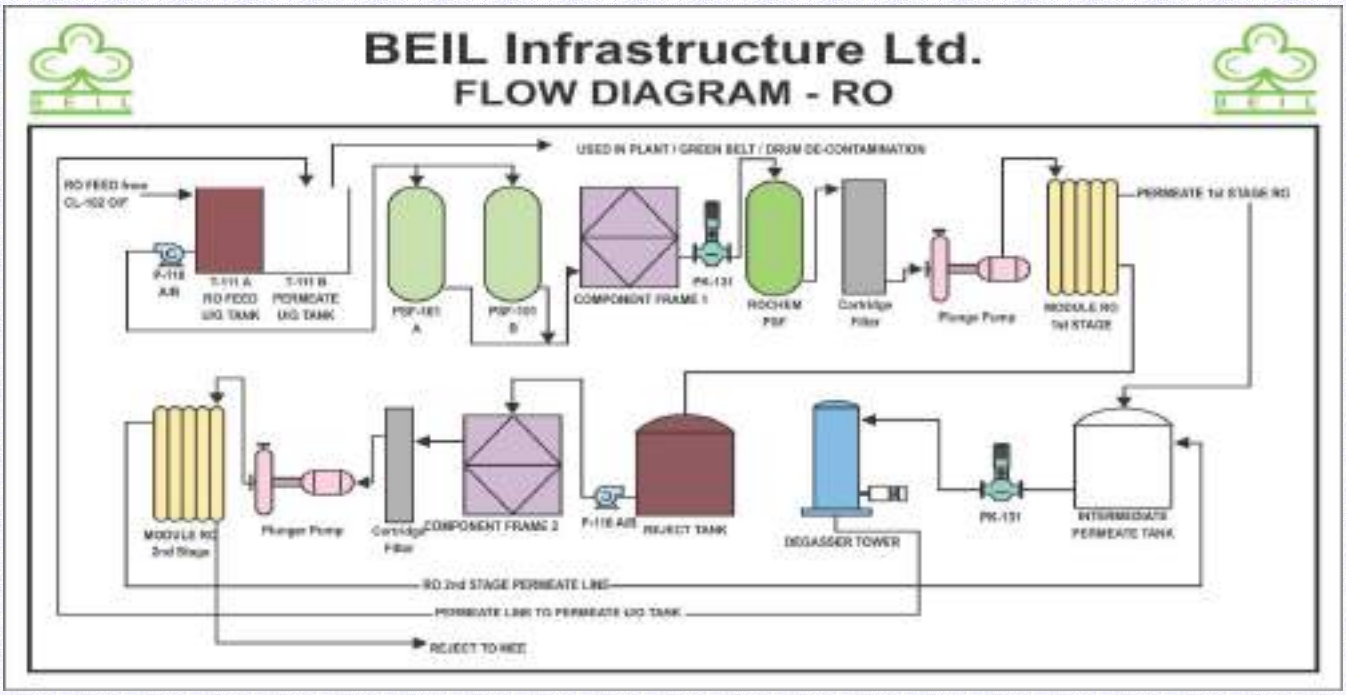
After MAP, two stage activated sludge process is proposed. Overflow from ASP-I will go to secondary clarifier-I and overflow from secondary clarifier-1 will go to ASP -2 and overflow from ASP-2 will go to secondary clarifier-2 The underflow from secondary clarifier -1 and clarifier-2 will be recycled back to ASP-1, ASP-2 and part of this will be disposed to secured land filled site after dewatering. Overflow from Sec-2 will go to collection tank for further treatment with pressure sand filter, activated carbon filter and RO.

The treatment plant has following treatment units:

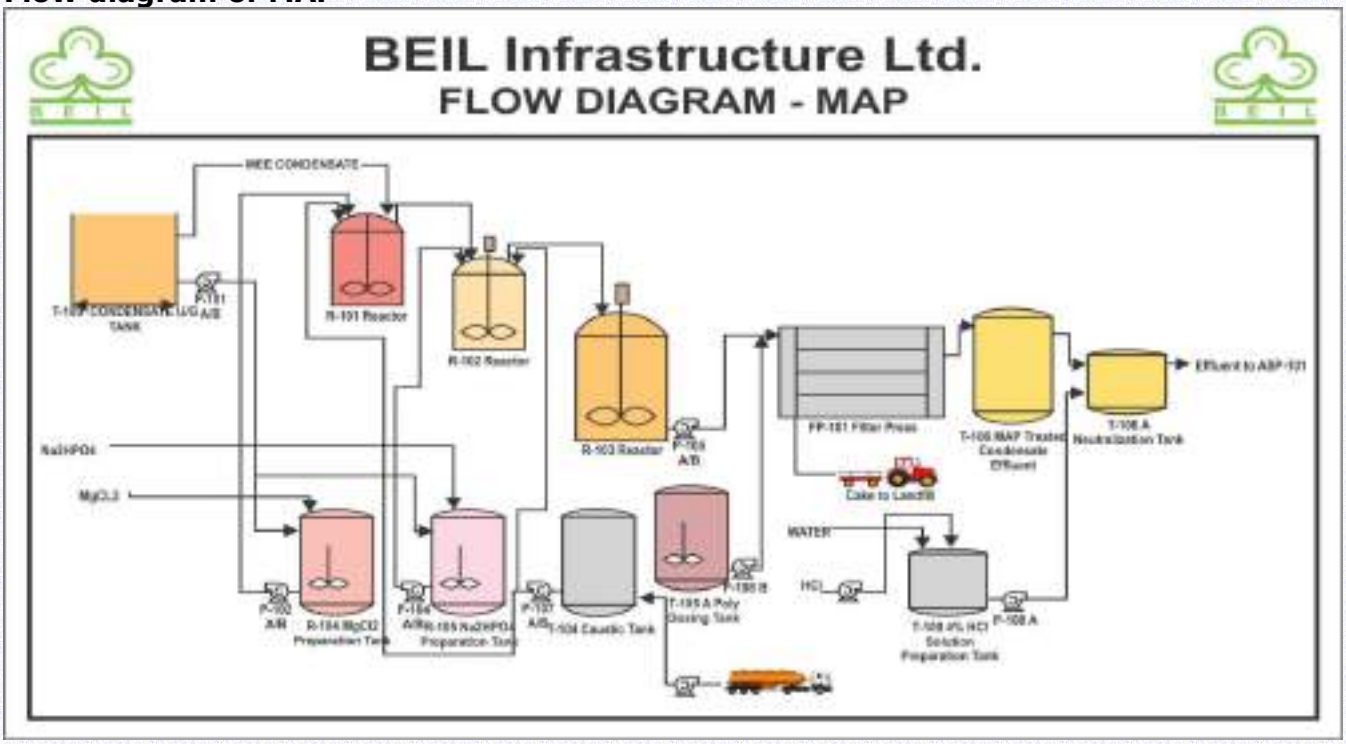
1. RCC hold tank for condensate
2. MAP treatment Plant.
3. ASP-I
4. ASP-II
5. Secondary clarifier-I
6. Secondary clarifier-II
7. Pressure sand filter

8. Treated effluent sump
9. Nutrient dosing tanks
10. Sludge dewatering system
11. RO

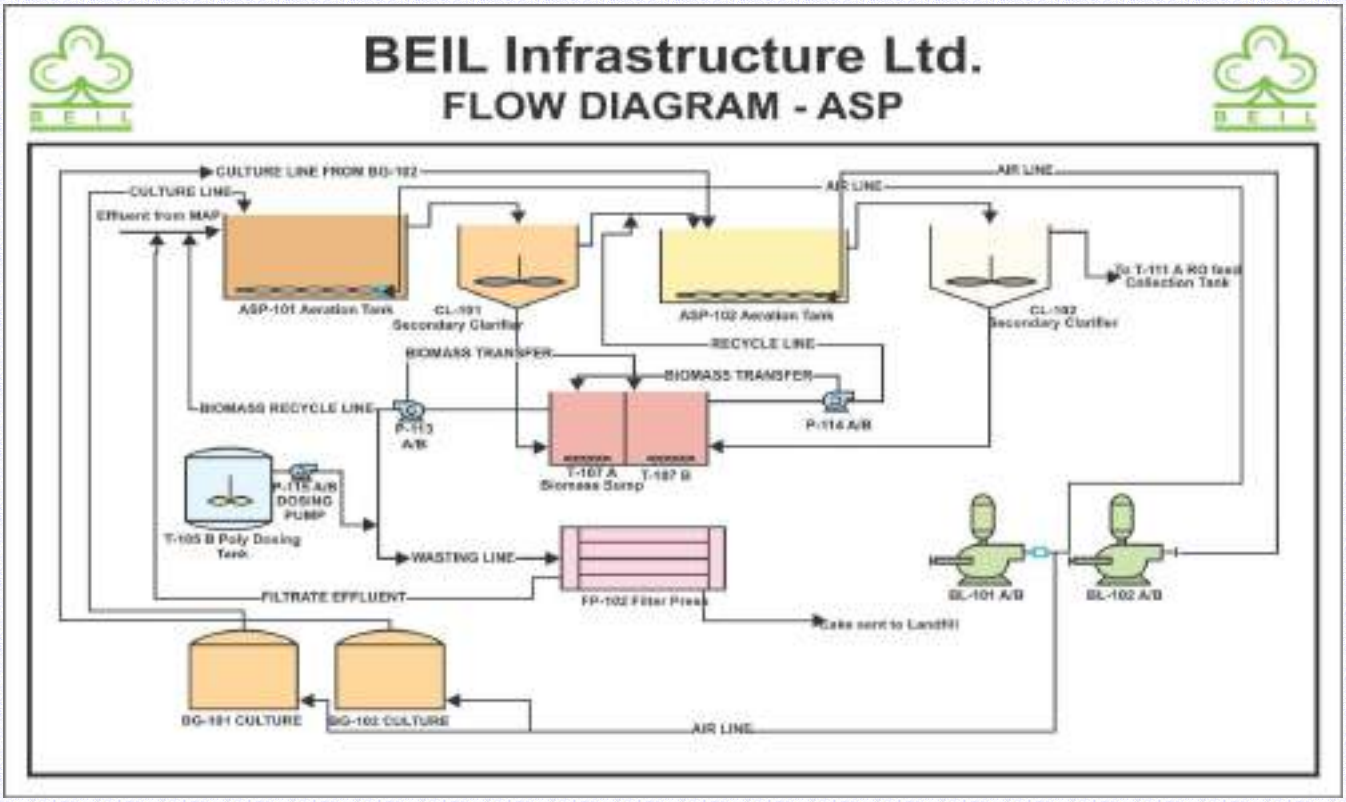
Flow diagram of RO PLANT



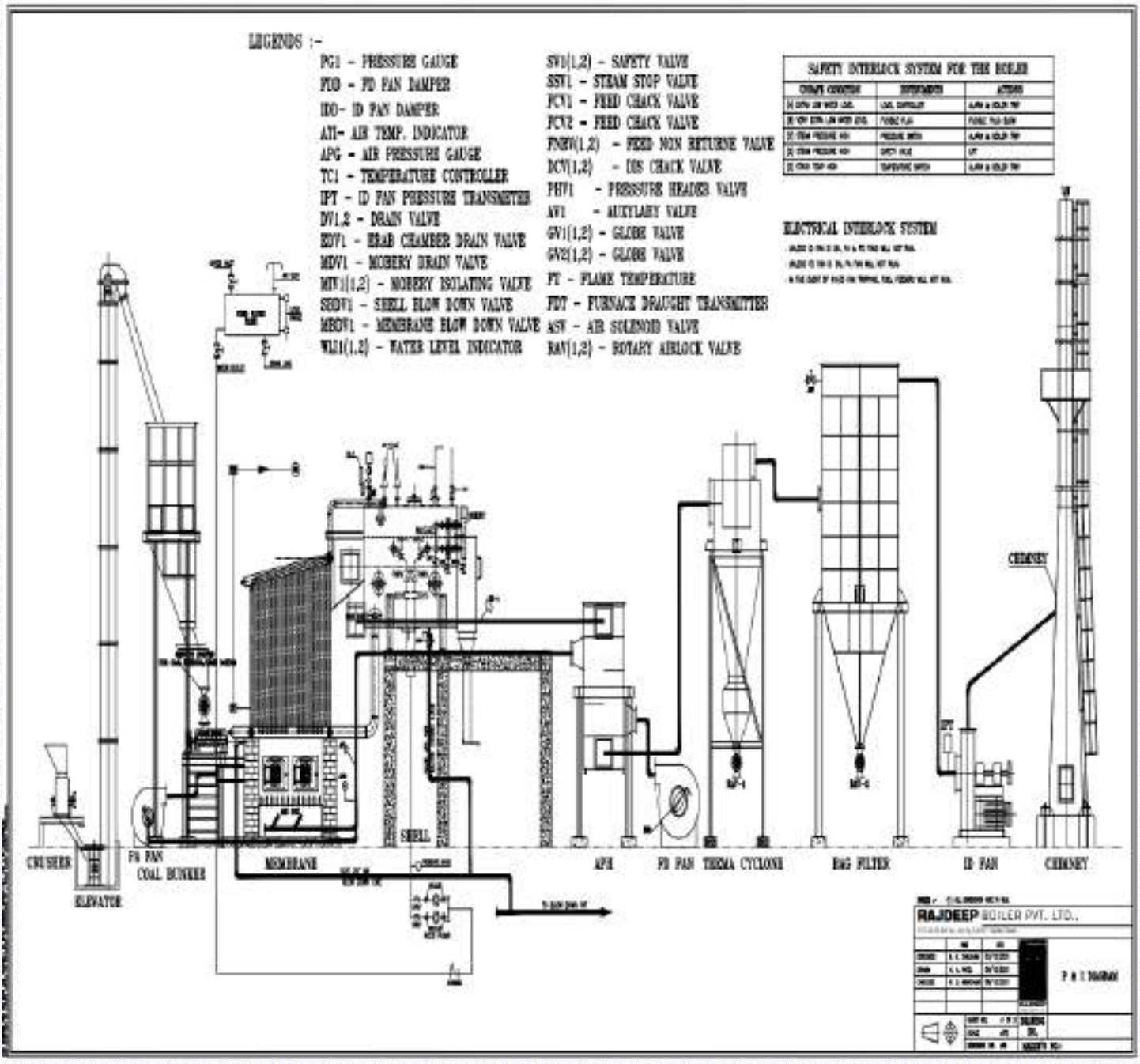
Flow diagram of MAP



Flow diagram of ASP



Coal fired boiler diagram



a) Blending Procedure of Mix liquid waste / Solid waste for co-processing for Cement Industries:

BEIL is Treatment storage and disposal facility of Hazardous waste. TSDF is receiving the waste generated from the member Industries for Secured landfill disposal, incineration and Evaporation.

The waste received for Incineration is first analyzed by our Laboratory and on the base of the analysis the storage is being decided. BEIL has storage facility for Incinerable waste as per CPCB guideline. The waste is segregated on the Physical state, chemical characteristics, Calorific value, Reactivity and P^H.

Considering the fact that incineration of the hazardous waste in the Common incinerator facility provides an environment friendly solution but not the best option. In the current scenario of energy crisis, co- processing of the combustible waste in a cement plant is one of the better option from Energy recovery point of view as well as better option to help reduced the CO2 emission

Accordingly, BEIL collects the waste liquid and solid from various waste streams / waste generators, blend the liquid / solid waste, which is suitable for co processing and send it to Ambuja Cements limited in compliance with CPCB / GPCB guidelines.

As per the "Guideline on Co-Processing in cement/power/steel Industries" published by central pollution control Board (Ministry of Environment & Forest, Govt. of India, New Delhi), February – 2010, Trial Run for co-processing of waste mix liquid and Solid of BEIL, Ankleshwar was carried out at Ambuja Cement.

Pollution Control Board has been granted permission for co-processing of mix liquid & solid waste of Bharuch Enviro Infrastructure Limited at m/s Ambuja cement.

BEIL has developed facility for preparation of Mixing / blending of the waste.

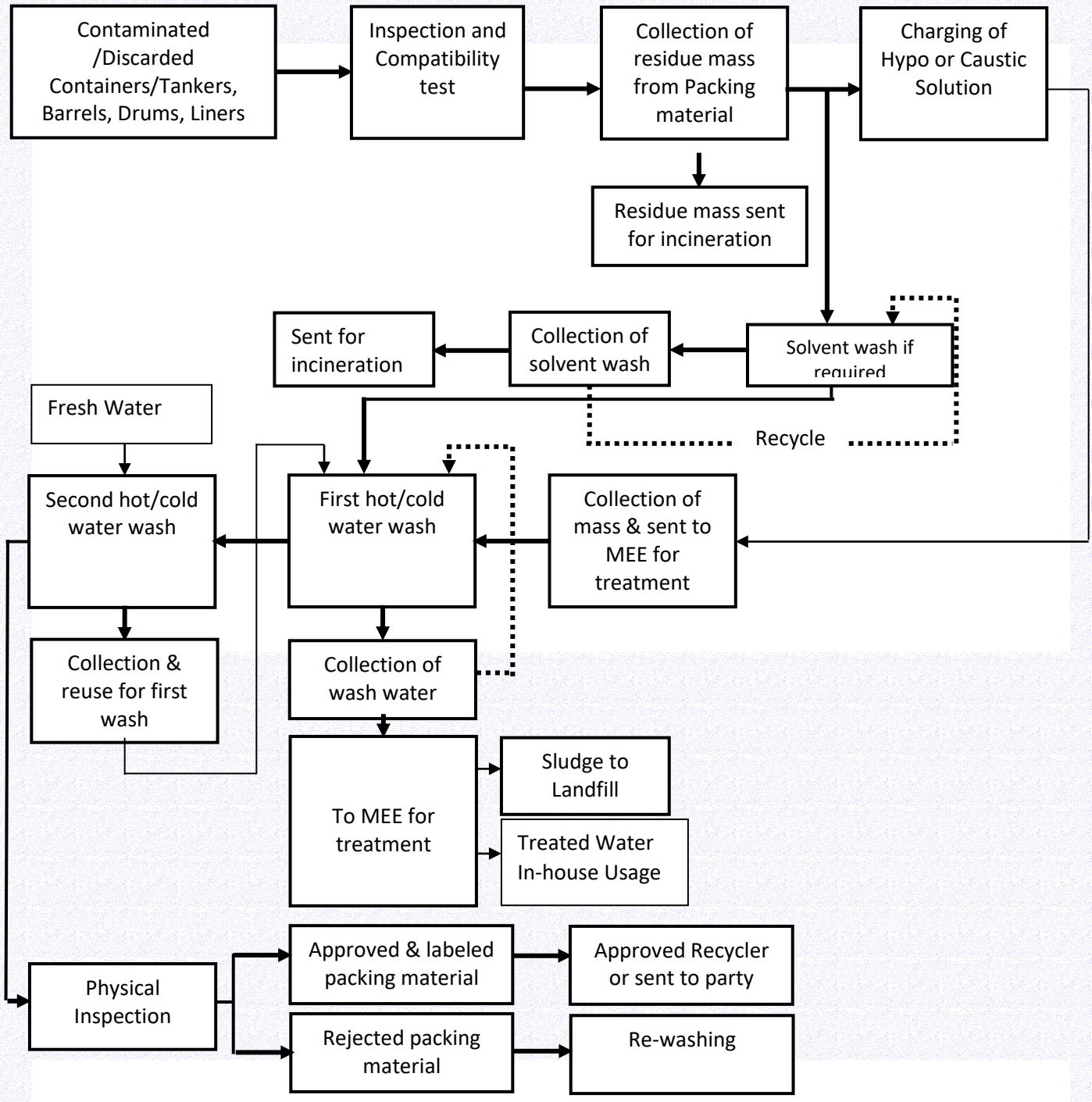
To send the liquid waste for co-processing first waste menu will be decided on the base of chemical properties, Compatibility, reactivity, flammability and corrosively. The selected waste liquid will be transferred to the charging tanks from drums. Then the liquid waste is taken to the storage tank, which is having humanizer for proper mixing of the liquid waste. Pumps are provided at the tank for loading of the tankers to send it to cement industries for co-processing. This is a complete close system and Fire hydrant system is provided around the area.

(b) **Common Facility for De-contamination & De-toxification of Packing Material (drum, Carboy, liners etc.) & Tanker**

b) Received Contaminated packing material is first inspected; damaged packing material is sorted out. Compatibility test is carried out to decide washing media & avoid unexpected events. Residue mass from the packing material is collected separately & sent for incineration at BEIL Ankleshwar. Hypo or caustic solution is charged into packing material; packing material is rolled for proper washing. Wash water is collected & sent to MEE plant for treatment. Then Packing material is rinsed with hot/cold water, wash water is re-circulated till the pH is neutral, then it is collected & sent to MEE plant for treatment. Second hot/cold water wash is given; wash water is collected & reused for first water wash. After completion of above process, in-house & third party physical inspection is carried out. Passed packing material is approved & labeled. Rejected packing material is sent for re-washing.

c) Solvent wash is given if it is required. Solvent wash water is collected in a separate tank/sump & reused/sent at BEIL Ankleshwar for incineration. After solvent wash; same procedure is followed as stated above.

Flow diagram of Common Facility for De-contamination & De-toxification of Packing Material (drum, Carboy, liners etc.)



Same procedure is followed for the De-contamination & De-toxification of Tanker as stated above.

4. OTHER HAZARDS & CONTROLS

Pls. refer Annexure – 7

5. TRADE WASTE DISPOSAL

BEIL generates incineration ash from incinerator plant & Salt from MEE plant and dispose it in landfill site – BEIL.

Waste water generates from incineration plant, drum washing facility, & laboratory and treat in MEE plant. MEE plant condensate water send to ASP/RO plant.

Pls. refer Annexure – 8

6. RECORD OF PAST INCIDENTS

No any incident has been occurred.

Pls. refer Annexure – 9

7. RISK ASSESSMENT

1. The following maximum credible accident scenarios may occur in a hazardous waste landfill (TSDF).

1. Slop Failure of landfill
2. Water accumulation at landfill due to heavy rain

1. Slop failure of Landfill

Precaution is always better than cure. To mitigate the slope failure during designing and operation of BEIL landfill the Stability analysis criteria are considered and are as follow.

Stability Analysis of Slope:

Fc = c/(yd*HSn)

The Fc shall be more than 1.5.

In each case for BEIL Landfill the Fc is @ 4

Settlement of landfill base on soft soil.

Settlement = (CcH/(1+eo))*log10(Po+ΔP)/Po)

For, ΔP 24.98 the settlement is 216mm and for ΔP 22.90 the settlement is 205mm

Geomembrane Stability: Tensile Stress under self-weight

Design Ratio shall be more than 10

For BEIL it is 11.72

Geomembrane Stability: Tensile Stress under waste down – drag during filling.

Design ratio shall be more than 10

For Landfill for BEIL it is 963.70

Stability of soil over Geomembrane.

A. Sliding of soil over Geomembrane F.O.S. shall be more than 1.5 for landfill of BEIL it is 1.513

B. Tensile Force in Geomembrane: design Ratio shall be more than 2.2 for BEIL landfill it is 2.2

Vehicle or Ramp or Slop:

(Static) F.O.S. is 5.29 (Shall be more than 3)

(Dynamic F.O.S. is 4.93 (shall be more than 3)

Wheel loading

Design Ratio is 5 (shall be more than 3)

M/s. KCT Consultancy Services as per CPCB criteria carried out the stability analysis for Landfill Facility.

The capping activity is also carried out immediate once the waste filling is completed in particular cell.

After completion of capping of landfill site there should not be chances of increase moisture content of filled waste, so there should not be any chances of failure of top slop.

Phase I was competed in all respect with capping in Dec 2008 till date we have not observed any toe failure or slop failure in closed landfill site.

Phase II we have completed cell capping. Phase III has been started for landfilling.

Only present active cells are under operation so failure of slop is also minimized.

To prevent the failure of slop during the operation we are compacting it with dozer and roller. We are also making temporary bund wall to prevent any sliding of waste during operation.

Following steps to be carried out in case of slope failure:

- Implementation of onsite emergency plan
- Incoming waste to be stopped
- Slop failure may increase exposure risk to personnel and public so necessary PPEs to be provided. Relocation and covering of waste to be performed quickly and safely
- Perform mitigating activity to limit further contamination or damage
- Work to be done round the clock
- Primary report to be prepared and reviewed at regular intervals regarding the activities of waste shifting.

II. Water accumulation in landfill due to heavy rain.

We are keeping four nos of Diesel pump of 40 m^3/hr capacity and 5 Electric pump of 80 m^3/hr capacity to pump out the accumulated water due to heavy rain. In the event of a landfill instability such as a slop failure the first concern is always safety, safety of site personnel, safety of site entrants, and safety of general public. The situation will need to be assessed concisely and necessary emergency procedures and precautions implemented as quickly as possible.

Following steps to be carried out in case of water accumulation in landfill due to heavy rain:

- Implementation of onsite emergency plan
- Start pumps to pump out the water accumulated.
- Check the water quality, if contaminated send for treatment.
- Necessary PPEs like helmet, gum boot, hand gloves, rain coat to be provided. If required, relocation and covering of waste to be performed quickly and safely
- Perform mitigating activity to limit further contamination or damage
- Work to be done round the clock
- Primary report to be prepared and reviewed at regular intervals regarding the activities of waste shifting.

2. The following maximum credible accident scenarios may occur in a hazardous waste Incineration unit

1. **MCA-1 Release of Acetone from Drum storage warehouse**
2. **MCA-2 Release of SO2 during fire in waste storage shed**

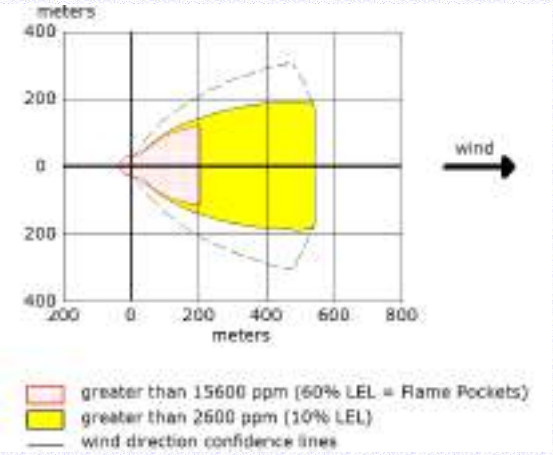
3. **MCA-3 Release of HCL vapour during Fire in waste storage shed**
4. **MCA-4 Release of NO2 during fire in waste storage shed**
5. **MCA-5 Jet fire from NG gas line leakage**

Dispersion Calculations

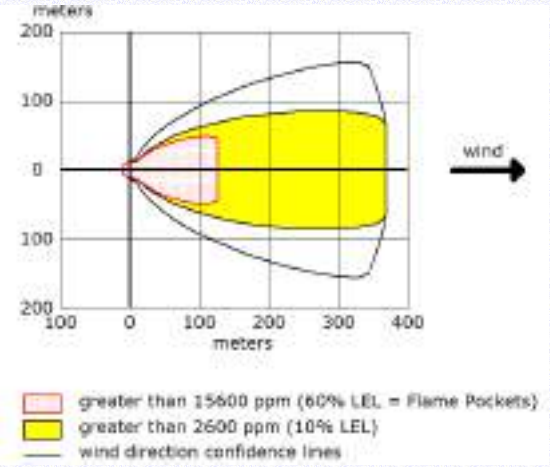
MCA-1- Release of Acetone from Drum storage warehouse

The properties of Hazardous waste are very difficult to determine the flammable characteristics, so the highly flammable solvents like Acetone is assumed for consequence modeling Storage stock arrangement of hazardous waste stored in HDPE or MS container arranged in three number of rows in each block with adequate separation distance between the blocks and each block contains 100 MT of hazardous waste either solid or semi solid waste. Solvent vapours can get released due to radiation heat from nearby storage block. It can form flammable mixture cloud.

For consequence, modeling the inventory of 100 MT Acetone vapour is considered as most of the industries are using Acetone.

1. ACETONE, 2 m/s-wind velocity and F- Weather class	
SITE DATA: Location: ANKLESHWAR, INDIA Building Air Exchanges Per Hour: 0.54 (unsheltered single storied) Time: April 25, 2017 1051 hours ST (using computer's clock) **CHEMICAL DATA:** Chemical Name: ACETONECAS Number: 67-64-1 Molecular Weight: 58.08 g/mol AEGL-1 (60 min): 200 ppm AEGL-2 (60 min): 3200 ppm AEGL-3 (60 min): 5700 ppm LEL: 26000 ppm UEL: 130000 ppm Ambient Boiling Point: 56.3° C Vapor Pressure at Ambient Temperature: 0.41 atm Ambient Saturation Concentration: 406,612 ppm or	**SCENARIO:** Flammable cloud in organic waste drum storage shed.  **THREAT ZONE:** Threat Modeled: Flammable Area of Vapor Cloud

40.7% **ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)** Wind: 2 meters/second from SW at 3 meters Ground Roughness: open country Cloud Cover: 5 tenths Air Temperature: 32° C Stability Class: F (user override) No Inversion Height Relative Humidity: 50% **SOURCE STRENGTH:** Direct Source: 100000 kilograms/hr Source Height: 3 feet Release Duration: 30 minutes Release Rate: 1,670 kilograms/min Total Amount Released: 50,000 kilograms	Model Run: Heavy Gas Red : 203 meters --- (15600 ppm = 60% LEL = Flame Pockets) Yellow: 540 meters --- (2600 ppm = 10% LEL)

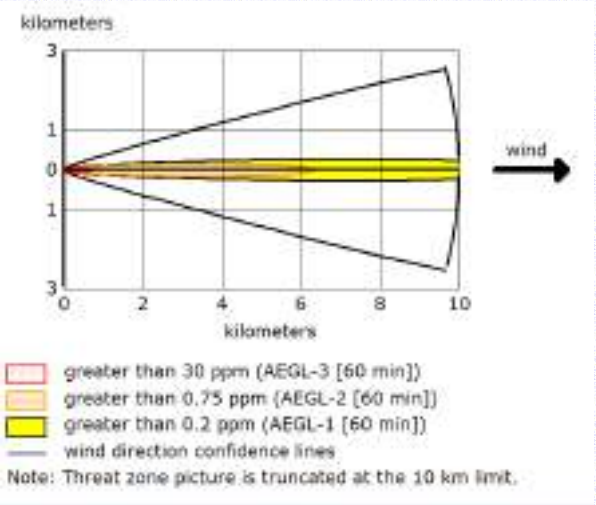
1. ACETONE, 3 m/s - wind velocity, D- Weather class	
SITE DATA: Location: ANKLESHWAR, INDIA Building Air Exchanges Per Hour: 0.72 (unsheltered single storied) Time: April 25, 2017 1056 hours ST (using computer's clock) **CHEMICAL DATA:** Chemical Name: ACETONE CAS Number: 67-64-1 Molecular Weight: 58.08 g/mol AEGL-1 (60 min): 200 ppm AEGL-2 (60 min): 3200 ppm AEGL-3 (60 min): 5700 ppm	**SCENARIO:** Flammable cloud in organic waste drum storage shed. 

LEL: 26000 ppm UEL: 130000 ppm Ambient Boiling Point: 56.3° C Vapor Pressure at Ambient Temperature: 0.41 atm Ambient Saturation Concentration: 406,612 ppm or 40.7% **ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)** Wind: 3 meters/second from SW at 3 meters Ground Roughness: open country Cloud Cover: 5 tenths Air Temperature: 32° C Stability Class: D (user override) No Inversion Height Relative Humidity: 50% **SOURCE STRENGTH:** Direct Source: 100000 kilograms/hr Source Height: 3 feet Release Duration: 30 minutes Release Rate: 1,670 kilograms/min Total Amount Released: 50,000 kilograms	**THREAT ZONE:** Threat Modeled: Flammable Area of Vapor Cloud Model Run: Heavy Gas Red : 126 meters --- (15600 ppm = 60% LEL = Flame Pockets) Yellow: 369 meters --- (2600 ppm = 10% LEL)

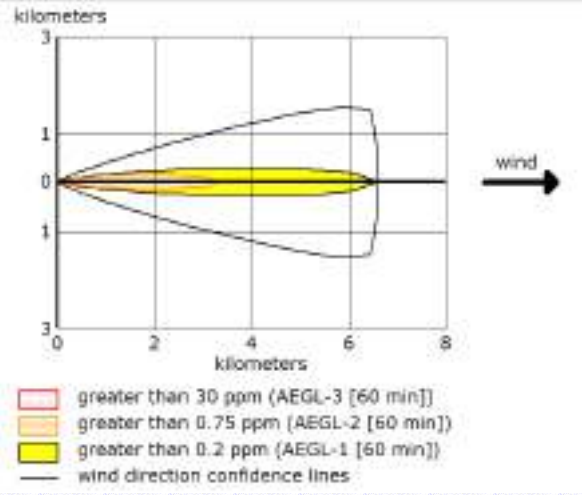
MCA-2 - Release of SO2 during fire in waste storage shed

The properties of Hazardous waste are very difficult to determine the toxic characteristics so assuming the toxic vapors like SO2, HCL and NO2 are considered for consequence modeling

Storage stock arrangement of hazardous waste stored in HDPE or MS container arranged three number of stages in each block with adequate separation distance between the blocks and each block contains 300 MT of hazardous waste either solid or semi solid waste. For consequence modeling, the inventory of 1 MT SO2 toxic gas or vapor plume is considered.

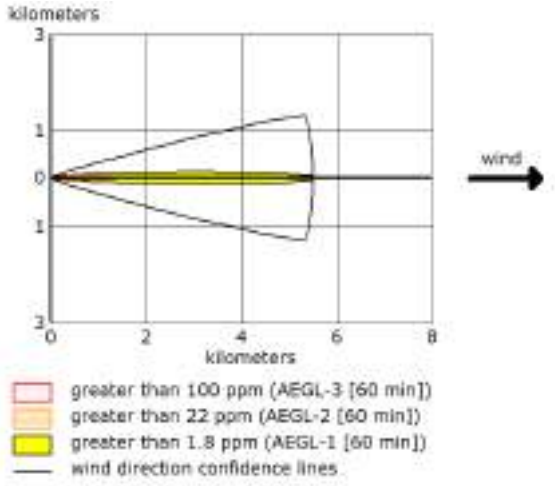
2. Sulphur Dioxide, 2 m/s-wind velocity and F- Weather class - 1MT	
SITE DATA: Location: ANKLESHWAR, INDIA Building Air Exchanges Per Hour: 0.54 (unsheltered single storied) Time: April 25, 2017 1134 hours ST (using computer's clock) **CHEMICAL DATA:** Chemical Name: SULFUR DIOXIDE CAS Number: 7446-9-5 Molecular Weight: 64.06 g/mol AEGL-1 (60 min): 0.2 ppm AEGL-2 (60 min): 0.75 ppm AEGL-3 (60 min): 30 ppm IDLH: 100 ppm Ambient Boiling Point: -10.0° C Vapor Pressure at Ambient Temperature: greater than 1 atm Ambient Saturation Concentration: 1,000,000 ppm or 100.0% **ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)** Wind: 2 meters/second from SW at 3 meters Ground Roughness: open country Cloud Cover: 5 tenths Air Temperature: 32° C	**Scenario :** Toxic vapor release during the fire incident in300MT organic waste storage shed. Approximately 1 MT SO2 is considered.  **THREAT ZONE:** Model Run: Heavy Gas Red : 729 meters --- (30 ppm = AEGL-3 [60 min]) Orange: 6.4 kilometers --- (0.75 ppm = AEGL-2 [60 min]) Yellow: greater than 10 kilometers --- (0.2 ppm = AEGL-1 [60 min])

Stability Class: F (user override) No Inversion Height Relative Humidity: 50% **SOURCE STRENGTH:** Direct Source: 1000 kilograms/hr Source Height: 3 meters Release Duration: 30 minutes Release Rate: 16.7 kilograms/min Total Amount Released: 500 kilograms Note: This chemical may flash boil and/or result in two phase flow.	

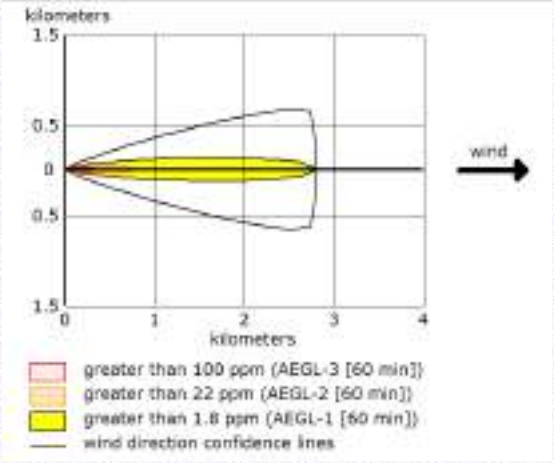
2.Sulphur Dioxide, 3 m/s - wind velocity, D- Weather class - 1MT	
SITE DATA: Location: ANKLESHWAR, INDIA Building Air Exchanges Per Hour: 0.72 (unsheltered single storied) Time: April 25, 2017 1056 hours ST (using computer's clock) **CHEMICAL DATA**: Chemical Name: SULFUR DIOXIDE CAS Number: 7446-9-5 Molecular Weight: 64.06 g/mol AEGL-1 (60 min): 0.2 ppm AEGL-2 (60 min): 0.75 ppm AEGL-3 (60 min): 30 ppm IDLH: 100 ppm Ambient Boiling Point: -10.0° C Vapor Pressure at Ambient Temperature: greater than 1 atm Ambient Saturation Concentration: 1,000,000 ppm or 100.0% **ATMOSPHERIC DATA: (MANUAL INPUT OF**	**Scenario :** Toxic vapor release during the fire incident in300MT organic waste storage shed. Approximately 1 MT SO2 is considered.  **THREAT ZONE:** Model Run: Heavy Gas Red : 473 meters --- (30 ppm = AEGL-3 [60

DATA) Wind: 3 meters/second from SW at 3 meters Ground Roughness: open country Cloud Cover: 5 tenths Air Temperature: 32° C Stability Class: D (user override) No Inversion Height Relative Humidity: 50% **SOURCE STRENGTH:** Direct Source: 1000 kilograms/hr Source Height: 3 meters Release Duration: 30 minutes Release Rate: 16.7 kilograms/min Total Amount Released: 500 kilograms Note: This chemical may flash boil and/or result in two phase flow.	min]) Orange: 3.3 kilometers --- (0.75 ppm = AEGL-2 [60 min]) Yellow: 6.6 kilometers --- (0.2 ppm = AEGL-1 [60 min])

MCA-3 Release of HCL vapour during Fire in waste storage shed

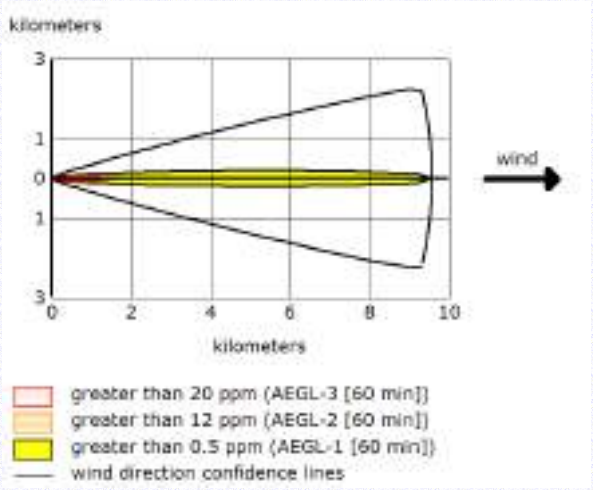
3. HYDROGEN CHLORIDE, 2 m/s-wind velocity and F- Weather class - 1MT	
SITE DATA: Location: ANKLESHWAR, INDIA Building Air Exchanges Per Hour: 0.54 (unsheltered single storied) Time: April 25, 2017 1143 hours ST (using computer's clock) **CHEMICAL DATA:** Warning: HYDROGEN CHLORIDE can react with water and/or water vapor. This can affect the evaporation rate and downwind dispersion. ALOHA cannot accurately predict the air hazard if this substance comes in contact with water. Chemical Name: HYDROGEN CHLORIDE CAS Number: 7647-1-0 Molecular Weight: 36.46 g/mol AEGL-1 (60 min): 1.8 ppm AEGL-2 (60 min): 22 ppm AEGL-3 (60 min): 100 ppm IDLH: 50 ppm Ambient Boiling Point: -85.0° C Vapor Pressure at Ambient Temperature: greater than 1 atm Ambient Saturation Concentration: 1,000,000 ppm or 100.0% **ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)** Wind: 2 meters/second from SW at 3 meters Ground Roughness: open country Cloud Cover: 5 tenths Air Temperature: 32° C Stability Class: F (user override) No Inversion Height	**Scenario :** Toxic vapor release during the fire incident in300MT organic waste storage shed. Approximately 1 MT HCL is considered  **THREAT ZONE**: Model Run: Heavy Gas Red : 577 meters --- (100 ppm = AEGL-3 [60 min]) Orange: 1.4 kilometers --- (22 ppm = AEGL-2 [60 min]) Yellow: 5.5 kilometers --- (1.8 ppm = AEGL-1 [60 min])

Relative Humidity: 50% **SOURCE STRENGTH:** Direct Source: 1000 kilograms/hr Source Height: 3 meters Release Duration: 30 minutes Release Rate: 16.7 kilograms/min Total Amount Released: 500 kilograms Note: This chemical may flash boil and/or result in two phase flow.	

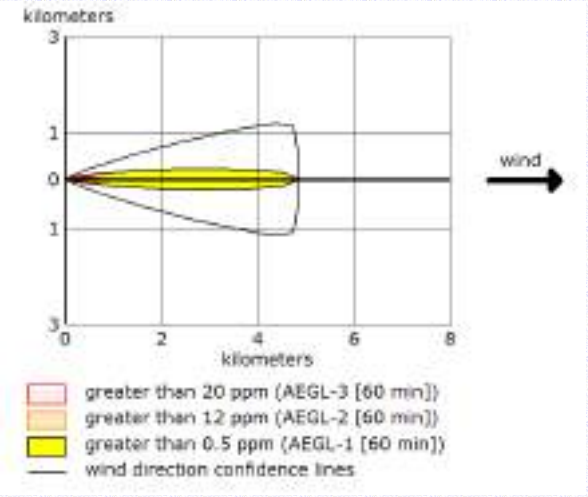
3. HYDROGEN CHLORIDE - 3 m/s - wind velocity, D- Weather class - 1MT	
SITE DATA: Location: ANKLESHWAR, INDIA Building Air Exchanges Per Hour: 0.72 (unsheltered single storied) Time: April 25, 2017 1145 hours ST (using computer's clock) **CHEMICAL DATA:** Warning: HYDROGEN CHLORIDE can react with water and/or water vapor. This can affect the evaporation rate and downwind dispersion. ALOHA cannot accurately predict the air hazard if this substance comes in contact with water. Chemical Name: HYDROGEN CHLORIDE CAS Number: 7647-1-0 Molecular Weight: 36.46 g/mol AEGL-1 (60 min): 1.8 ppm AEGL-2 (60 min): 22 ppm AEGL-3 (60 min): 100 ppm IDLH: 50 ppm Ambient Boiling Point: -85.0° C Vapor Pressure at Ambient Temperature: greater than 1 atm Ambient Saturation Concentration: 1,000,000	**Scenario :** Toxic vapor release during the fire incident in300MT organic waste storage shed. Approximately 1 MT SO2 is considered.  **THREAT ZONE:** Model Run: Heavy Gas Red : 340 meters --- (100 ppm = AEGL-3 [60 min])

ppm or 100.0% **ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)** Wind: 3 meters/second from SW at 3 meters Ground Roughness: open country Cloud Cover: 5 tenths Air Temperature: 32° C Stability Class: D (user override) No Inversion Height Relative Humidity: 50% **SOURCE STRENGTH:** Direct Source: 1000 kilograms/hr Source Height: 3 meters Release Duration: 30 minutes Release Rate: 16.7 kilograms/min Total Amount Released: 500 kilograms Note: This chemical may flash boil and/or result in two phase flow.	Orange: 757 meters --- (22 ppm = AEGL-2 [60 min]) Yellow: 2.8 kilometers --- (1.8 ppm = AEGL-1 [60 min])

MCA-4 Release of NO2 during fire in waste storage shed

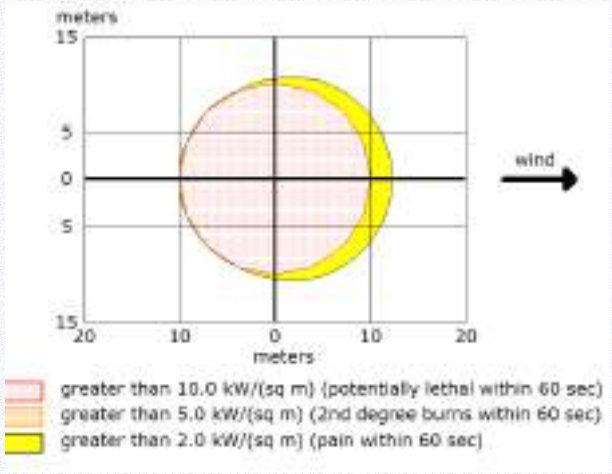
4. NITROGEN DIOXIDE, 2 m/s-wind velocity and F- Weather class - 1MT	
SITE DATA: Location: ANKLESHWAR, INDIA Building Air Exchanges Per Hour: 0.54 (unsheltered single storied) Time: April 25, 2017 1134 hours ST (using computer's clock) **CHEMICAL DATA:** Chemical Name: NITROGEN DIOXIDE CAS Number: 10102-44-0 Molecular Weight: 46.01 g/mol AEGL-1 (60 min): 0.5 ppm AEGL-2 (60 min): 12 ppm AEGL-3 (60 min): 20 ppm IDLH: 20 ppm Ambient Boiling Point: 21.0° C Vapor Pressure at Ambient Temperature: greater than 1 atm Ambient Saturation Concentration: 1,000,000 ppm or 100.0% **ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)** Wind: 2 meters/second from SW at 3 meters Ground Roughness: open country Cloud Cover: 5 tenths Air Temperature: 32° C Stability Class: F (user override) No Inversion Height Relative Humidity: 50% **SOURCE STRENGTH:** Direct Source: 1000 kilograms/hr Source	**Scenario :** Toxic vapor release during the fire incident in300MT organic waste storage shed. Approximately 1 MT NO2 is considered.  **THREAT ZONE**: Model Run: Heavy Gas Red : 1.3 kilometers --- (20 ppm = AEGL-3 [60 min]) Orange: 1.7 kilometers --- (12 ppm = AEGL-2 [60 min]) Yellow: 9.6 kilometers --- (0.5 ppm = AEGL-1 [60 min])

Height: 3 meters Release Duration: 30 minutes Release Rate: 16.7 kilograms/min Total Amount Released: 500 kilograms Note: This chemical may flash boil and/or result in two phase flow.	

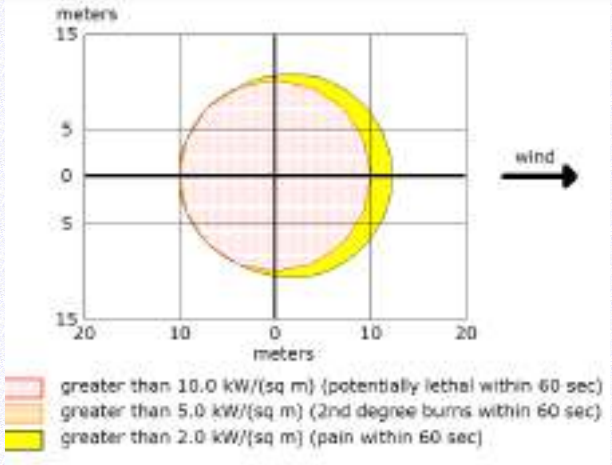
4.NITROGEN DIOXIDE, 3 m/s - wind velocity, D- Weather class - 1MT	
SITE DATA: Location: ANKLESHWAR, INDIA Building Air Exchanges Per Hour: 0.72 (unsheltered single storied) Time: April 25, 2017 1138 hours ST (using computer's clock) **CHEMICAL DATA:** Chemical Name: NITROGEN DIOXIDE CAS Number: 10102-44-0 Molecular Weight: 46.01 g/mol AEGL-1 (60 min): 0.5 ppm AEGL-2 (60 min): 12 ppm AEGL-3 (60 min): 20 ppm IDLH: 20 ppm Ambient Boiling Point: 21.0° C Vapor Pressure at Ambient Temperature: greater than 1 atm Ambient Saturation Concentration: 1,000,000 ppm or 100.0% **ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)** Wind: 3 meters/second from SW at 3 meters Ground Roughness: open country Cloud Cover: 5 tenths Air Temperature: 32° C Stability Class: D (user override) No Inversion Height Relative	**Scenario :** Toxic vapor release during the fire incident in1 MT organic waste drum storage shed.  **THREAT ZONE:** Model Run: Heavy Gas Red : 702 meters --- (20 ppm = AEGL-3 [60 min]) Orange: 920 meters --- (12 ppm = AEGL-2 [60 min]) Yellow: 4.9 kilometers --- (0.5 ppm = AEGL-1 [60 min])

Humidity: 50% **SOURCE STRENGTH:** Direct Source: 1000 kilograms/hr Source Height: 3 meters Release Duration: 30 minutes Release Rate: 16.7 kilograms/min Total Amount Released: 500 kilograms Note: This chemical may flash boil and/or result in two phase flow.	

MCA-5 Jet fire from NG gas line leakage

5. NG Gas, 2 m/s-wind velocity and F- Weather class	
SITE DATA: Location: ANKLESHWAR, INDIA Building Air Exchanges Per Hour: 0.54 (unsheltered single storied) Time: May 8, 2017 1205 hours ST (using computer's clock) **CHEMICAL DATA:** Chemical Name: METHANE CAS Number: 74-82-8 Molecular Weight: 16.04 g/mol PAC-1: 65000 ppm PAC-2: 230000 ppm PAC-3: 400000 ppm LEL: 50000 ppm UEL: 150000 ppm Ambient Boiling Point: -161.5° C Vapor Pressure at Ambient Temperature: greater than 1 atm Ambient Saturation Concentration: 1,000,000 ppm or 100.0% **ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)** Wind: 2 meters/second from SW at 3 meters Ground Roughness: open country Cloud Cover: 5 tenths Air Temperature: 32° C Stability Class: F (user override) No Inversion Height Relative Humidity: 50% SOURCE STRENGTH:	**Scenario:** Jet fire from NG gas line leakage, 3 inch pipe size  **THREAT ZONE:** Threat Modeled: Thermal radiation from jet fire Red : 10 meters --- (10.0 kW/(sq m) = potentially lethal within 60 sec) Orange: 10 meters --- (5.0 kW/(sq m) = 2nd degree burns within 60 sec) Yellow: 12 meters --- (2.0 kW/(sq m) = pain within 60 sec)

Flammable gas is burning as it escapes from pipe Pipe Diameter: 3 inches Pipe Length: 200 meters Unbroken end of the pipe is connected to an infinite source Pipe Roughness: smooth Hole Area: 7.07 sq in Pipe Press: 2 atmospheres Pipe Temperature: 32° C Max Flame Length: 6 meters Burn Duration: ALOHA limited the duration to 1 hour Max Burn Rate: 46.5 kilograms/min Total Amount Burned: 964 kilograms	

5.NG Gas, 3 m/s - wind velocity, D- Weather class	
SITE DATA: Location: ANKLESHWAR, INDIA Building Air Exchanges Per Hour: 0.72 (unsheltered single storied) Time: May 8, 2017 1206 hours ST (using computer's clock) **CHEMICAL DATA:** Chemical Name: METHANE CAS Number: 74-82-8 Molecular Weight: 16.04 g/mol PAC-1: 65000 ppm PAC-2: 230000 ppm PAC-3: 400000 ppm LEL: 50000 ppm UEL: 150000 ppm Ambient Boiling Point: -161.5° C Vapor Pressure at Ambient Temperature: greater than 1 atm. Ambient Saturation Concentration: 1,000,000	**Scenario:** Jet fire from NG gas line leakage, 3 inch pipe size  **THREAT ZONE:** Threat Modeled: Thermal radiation from jet fire Red : 10 meters --- (10.0 kW/(sq m) = potentially lethal within 60 sec) Orange: 10 meters --- (5.0 kW/(sq m) = 2nd

ppm or 100.0% **ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)** Wind: 3 meters/second from SW at 3 meters Ground Roughness: open country Cloud Cover: 5 tenths Air Temperature: 32° C Stability Class: D (user override) No Inversion Height Relative Humidity: 50% **SOURCE STRENGTH:** Flammable gas is burning as it escapes from pipe Pipe Diameter: 3 inches Pipe Length: 200 meters Unbroken end of the pipe is connected to an infinite source Pipe Roughness: smooth Hole Area: 7.07 sq in Pipe Press: 2 atmospheres Pipe Temperature: 32° C Max Flame Length: 6 meters Burn Duration: ALOHA limited the duration to 1 hour Max Burn Rate: 46.5 kilograms/min Total Amount Burned: 964 kilograms	degree burns within 60 sec) Yellow: 12 meters --- (2.0 kW/(sq m) = pain within 60 sec)

Pls. refer Annexure – 10 & 11

8. ENVIRONMENTAL IMPACT ASSESSMENT

The project data/activities has been analyzed & linked with the existing baseline environmental conditions in order to list out the affected environmental parameters and assess the likely impacts on such parameters. Pls. refer Annexure – 12 & 13 on page no. & 112 & 113 respectively.

CHAPTER-III

EMERGENCY ORGANISATION

This chapter is device to suggest the organization for emergency preparedness. No plan will succeed without emergency organization. Key personnel to combat emergency are nominated with specific responsibilities according to the set procedures (rehearsed) and making the best use of resources available and to avoid confusion). Such key personnel include incident controller, Site main controller, other key personnel and essential workers. Assembly points for non-essential workers, emergency control centre, ambulance van, fire and toxicity control arrangements, medical arrangements, transport and evacuation arrangements, pollution control arrangements, other arrangements and persons to manage them are also an important part of the emergency organization.

1. INCIDENT CONTROLLER:

His primary duty is to take charge at the scene of the incident. In the initial stages he may be require to take decisions involving the operation of the other plants or to stop or to continue any process and to take technical decision to control the incident. Therefore, he should be fully knowledgeable for these purposes. He might be the shift or plant manager. Appoint such person for each shift including holidays. Any one incident controller must be available at any time. Their duties are fixed that way. The deputy is appointed to take charge of Incident Controller, if he is not available due to some any reason. He is also equally competent.

Responsibilities / Duties of Incident Controller

1. Assess the scale of the emergency and decide if a major emergency exists or is likely. On his decision, he will activate the on-site emergency plan and if necessary the off-site emergency plan.
2. Assume the duties of the Site Main Controller pending the latter's arrival For this purpose, he will depute his deputy on the scene and he will go to the control center. Particularly he will-
    a. Direct the shutting down and evacuation of the plant and areas likely to be affected by the emergency.
    b. Ensure that the outside emergency services, including mutual aid, have been called in.

c. Ensure that key personnel have been called in.

3. Direct all operations within the affected area with the following priorities:

   a. Secure the safety of the personnel.

   b. Minimize damage to plant, property and the environment.

   c. Minimize loss of material.

4. Direct rescue and fire-fighting operations until the arrival of the outside Fire Brigade, when he will relinquish control to the Fire Brigade.

5. Search for casualties.

6. Evacuate non-essential workers to the assembly points.

7. Set up a communications point and establish radio/telephone/messenger contact as appropriate with the Emergency Control Centre.

8. Give advice and information as requested to the Head of the Fire Brigade and other Emergency Services.

9. Brief the site main controller and keep informed of developments.

10. Preserve evidences that will be necessary for subsequent inquiry in to the cause of the emergency and concluding preventive measures.

Pls. refer Annexure – 14

Deputy Incident controller is appointed to deal with the emergency in absence of Incident Controller.

Pls. refer Annexure – 15

2. SITE MAIN CONTROLLER:

He has overall responsibility for directing operations and calling outside help from emergency control center. He is required to take decisions by collaboration between the senior managers at the site (works) and the senior officers of the outside services.

Responsibilities / Duties of Incident Controller

Immediately being aware of the emergency, he will go to the emergency control center. On arrival, he will –

1. Relieve the incident controller of responsibility for overall main control.

2. On consultation with the incident controller decide whether major emergency exist and on declaration of a major emergency, ensure that the outside emergency services and mutual help are called, the off-site plan activated and if necessary, nearby factories and population are informed.

3. Ensure that the key personnel are called in.
4. Exercise direct operational control of those parts of the works outside the affected area.
5. Continually review and assess possible developments to determine the most probable course of events.
6. Direct the safe close down and evacuation of plants in consultation with the incident controller and key personnel. If necessary, arrange for evacuation of neighboring population.
7. Ensure that casualties are receiving adequate attention. Arrange for hospitalization of victims and additional help, if required. Ensure that the relatives are advised.
8. Inform and communicate with the chief officers of the fire and police service. District emergency authority and with the factory inspectorate and experts on health and safety. Provide advice on possible effects on areas outside the factory.
9. In case of prolonged emergencies involving risk to outside areas by wind-blown materials. Contact the local meteorological office to receive early notification of impending changes in weather conditions.
10. Ensure the accounting for personnel and rescue of missing persons.
11. Control traffic movement within the factory.
12. Arrange for a chronological record of the emergency to be maintained.
13. Where the emergency is prolonged, arrange for the relief of personnel and the provision of catering facilities.
14. Issue authorized statements to the news media. Where necessary, inform head office.
15. Ensure that proper consideration is given to the preservation of evidence. Arrange for photographs/videos.
16. Control rehabilitation of affected areas and victims on cessation of the emergency. Do not restart the plant unless it is ensured safe to start and cleared by authorities.

Pls. refer Annexure – 16

3. OTHER KEY PERSONNEL:

Other key personnel are required to provide advice to and implement the decisions made by the site main controller in the light of information received on the developing situation at the emergency.

Such key personnel include the senior managers responsible for safety, security, fire, gas, and spill control, pollution control, communication system including telephone, wireless, messenger etc. medical services, transport, engineering, production, technical

services (including utilities, laboratories), stores and personnel (including welfare, canteen, etc.).

As necessary, they will decide the actions needed to shut down plants, evacuate personnel, carry out emergency engineering work, arrange for supplies of equipment, utilities (fuel, water, power, etc.) carry out atmospheric tests, provide catering facilities, liaise with police, fire brigade, emergency planning authority, factory inspectorate, hospitals, neighboring industries find population, assembly points, outside shelters, mutual aid centers, relatives of casualties, press and so on, under the direction of the site main controller.

At the declaration of a major emergency, all key personnel and others called in to assist shall report to the emergency control center. They shall be available at any time on duty or on call on off-duty or holiday.

Pls. refer Annexure – 17

4. ESSENTIAL WORKERS:

A taskforce of essential trained workers (expert's teams) must be available to get the work done by the incident controller and the site main controller, such work will include:

1. Firefighting, gas leak and spill control till a fire brigade takes the charge.
2. To help to the fire brigade and mutual aid teams, if it is so required.
3. Shutting down plant and making it safe.
4. Emergency engineering work e.g. isolating equipment, materials, process, providing temporary by-pass lines, safe transfer of material, urgent repairing or replacement, electrical work etc.
5. Provision of emergency power, water, lighting, instruments, equipments, material etc.
6. Movement of equipment, special vehicle and transport to or from the site of the incident.
7. Search evacuation, rescue, and welfare.
8. First-aid and medical help.
9. Moving tankers or other vehicles from areas of risk.
10. Carrying out atmospheric test and pollution control.
11. Managing of assembly points to record the arrival of evacuated personnel. Managing for outside shelters and welfare of evacuated persons there.
12. Assistance at casualties' reception areas to record details of casualties.

13. Assistance at communication centers to handle outgoing and incoming calls and to act as messengers if necessary.
14. Manning of works entrances in liaison with the police to direct emergency vehicles entering the work, to control traffic leaving the works and to turn away or make alternative safe arrangements for visitors, contractors and other traffic arriving at the works.
15. Informing surrounding factories and the public as directed by the site main controller.
16. Any special help required.

Pls. refer Annexure – 18

5. ASSEMBLY POINTS:

In affected and vulnerable plants, all non-essential workers (who are not assigned any emergency duty) shall evacuate the area and report to a specified assembly point. The need to evacuate non-essential workers from non-affected area will be determined by the size of works and the foreseeable rate at which the incident may escalate.

Each assembly point is clearly marked by a conspicuous notice and provided with an identification number e.g. ASSEMBLY POINT NO.1 mark such points permanently for the notice of people.

Total three assembly points are provided:

(1) To ensure that employees do not have to approach the affected area to reach the point

(2) In case any assembly point lies in the path of windblown harmful materials e.g. toxic gas, burning brands, thrown (exploded) materials, etc. in case the factory is big having more plants and wide area.

Each assembly point is managed by a nominated person(s) to record the names and departments of those reporting there. He has a means of communication with the site main controller in case it is necessary to establish the whereabouts of people and to receive further instructions concerning the deployment of the evacuated personnel.

Before reaching an assembly point or subsequently, if it is required to pass through an affected area or the release of toxic substance, suitable personal protective equipments (PPE) including respirator, helmets, etc. should be available to the people.

Pls. refer Annexure – 19

6. EMERGENCY CONTROL CENTRE:

The emergency control center (or room) is the place from which the operations to handle the emergency are directed and coordinated. It will be attended by the site main controller, key personnel and senior officers of the fire, police, factory inspectorate, district authorities and emergency services. The center is equipped to receive and transmit information and directions from and to the incident controller and areas of the works as well as outside. It also has equipment for logging the development of the incident to assist the controllers to determine any necessary action.

In addition to the means of communication, the center is equipped with relevant data and equipment which will assist those manning the center to be conversant with the developing situation and enable them to plan accordingly.

It is sited in an area of minimum risk and close to a road to allow for ready access by a radio-equipped vehicle for use if other systems fail or extra communication facilities are needed.

The center therefore contains:

1. An adequate number of external telephones.
2. An adequate number of internal telephones.
3. Mobile phones and walkie-talkie.
4. Plans of the factory.
5. Additional plans which may be marked up during the emergency to show:

    a) Areas affected or endangered within the factory.

    b) Surrounding areas, population and other environment likely to be affected due to toxic release, wind speed recorders and ready computer models (risk counters) based on prevailing wind direction, velocity, weather conditions and other parameters, will be much useful for quick judgment and evacuation of those areas.

    c) Areas where particular problems arise.

    d) Area evacuated and safe routes for escape.

    e) Deployment of emergency vehicles and personnel.

    f) Other relevant information.

6. Nominal roll of employees, work permits, gate entries and documents for head count or access to this information. Employee’s blood group information and addresses will also be useful.

7. Note pads, pens, pencils, rubber and stationery to record all messages received and sent by whatsoever means.

8. Note copies of this on-site emergency plan i.e. updated full text including all annexure. From this, some vehicles and messengers (runners) should be kept ready at the center.

9. A tape-recorder and video to record the incident and evidences of the cause and effect and actions to control the emergency.

10. Torches, umbrella, rain coats and some extra sets of gas detectors, explosive meters and personal protective equipments.

Pls. refer Annexure – 20

7. FIRE AND TOXIC CONTROL ARRANGEMENTS:

BEIL has its own TAC approved wet fire hydrant system:

1. Total 125 numbers of Fire Extinguishers are available in plant, utility, QC, tank farm and storage area to handle any class of Fire. The portable fire extinguishers provided in the all area are mainly of ABC/ Dry Chemical, Carbon Dioxide & M. Foam type. The Electrical installations are provided with Carbon dioxide type of fire extinguishers. Apart from above, trolley mounted Carbon Dioxide & M. Foam type fire extinguisher is located near Electrical Control Panel & storage area respectively.

2. Wet fire hydrant system has been provided in the factory area with jockey pump and main fire pumps, which come on line automatically when there is a pressure drop in the fire hydrant system. The main Hydrant Pump connected to the Fire Hydrant System is electrical driven. The standby can be Diesel Engine Driven Pump or Electrical Motor driven connecting to alternate source of energy from DG in case of failure of main electrical supply.

a) Fire Fighting Water Storage Details

Sr. No.	Description	Capacity
1	Raw water storage	250 KL
2	Fire water storage	1100 KL
	Total Water Storage	1350 KL

b) Jockey Pump

Capacity : 03 M3/Hr. at 70-M head

RPM : 2900

Motor HP : 10

c) Diesel Driven Pump

Capacity : 273 M3/hr. at 70-M head

RPM : 1880

Motor HP : 133

d) Electrical Power-Driven Pump

Capacity : 273 M3/Hr. at 70-M head

RPM : 2970

Motor HP : 120

e) Electrical Power-Driven Pump

Capacity : 173 M3/Hr. at 70-M head

RPM : 2935

Motor HP : 60

f) Fire Hydrant Point Details

Sr. No.	Description	Quantity
1	Single hydrant	56 Nos.
2	Water monitor	16 Nos.
3	Hose pipe	48 Nos.
4	Hose box	48 Nos.

g) Sand Buckets

Sr. No.	Description	Quantity
1	DG room	01 Nos.
2	HT yard	03 Nos.
3	Shed No. 1	05 Nos.
4	Shed No. 2	05 Nos.
5	Shed No. 3	05 Nos.
	Total	19 Nos.

h) External Fire Fighting Service

For additional help in firefighting, the fire brigade can be called from DPMC Ankleshwar, Panoli, ONGC & Bharuch Nagarpalika. The response time to get external help from above fire station and the distances are as below:

Sr. No.	Fire Brigade Station	Distance	Response Time
1	GACL, fire department	10KM	10 Min.
2	Reliance Industries Ltd.	5 KM	8 Min.
3	Birla Copper,	7 KM	10 Min.
4	GCPTCL Fire station	7 KM	10 Min.
5	Upl , Unit-13	7 KM	10 Min.

1. Emergency Handling Arrangement

1. Emergency Control Center : 01 Nos. (Main Gate)

It is sited in Office Building, which is readily accessible & with minimum risks equipped with telephone facilities and announcements if extra communications facility needed. It has enough means to receive and transmit information and directions from Emergency Controller to incident controller and other areas.

In emergency control center due to its safer location and advantage of easier accessibility, all necessary personnel protective equipment, and fire fighting extinguishers are stocked in sufficient quantity.

2. SCBA : 04 Nos.

- MEE control room : 01 Nos.

- Safety Office : 01 Nos
- Charging Area : 01 Nos
- Incinerator Plant Building : 01 Nos

3. Assembly Points : 02 Nos.
4. Siren : 02 Nos. (Plant-1 + Adm. Building)
5. Wind Indicator : 03 Nos. (Drum decontamination Plant + Adm. Building+ spray dryer adsorption plant

2. Other PPE's available at ECC.

Sr. No.	Name of PPE	Qty.	Sr. No.	Name of PPE	Qty.
1	Safety Helmet	06 Nos.	5	Face Shield	03 Nos.
2	Disposable Hand Gloves	02 Pkts.	6	PVC Apron	02 Nos.
3	PVC Hand Gloves	06 Pkts.	7	Safety Belt	02 Nos.
4	Safety Goggles	06 Nos.	8	Air Bubble Hood	02 Nos.

Pls. refer Annexure – 21

8. MEDICAL ARRANGEMENTS:

Occupational health centre is available for medical treatment of the workers in normal working and also at the time of emergency. It is fully equipped with necessary instruments, arrangements, medicines including antidotes, and staff. It has sufficient space, capacity and sited in a safe place (avoiding normal downwind direction). There are sufficient first aid boxes and first aiders properly trained. The staff is available round the clock.

An emergency vehicle is available for the purpose of transportation of serious cases of accidents or sickness.

First Aiders

1. First Aid trained staff available round the clock in each plant. The First Aiders are arranged/selected such that in each shift, minimum one first aider is available in all plant.
2. External Faculty gives First Aid Training to all First Aiders.

First Aid Box

First-aid boxes with emergency medicines are available at following locations:

- ✓ Electrical panel room
- ✓ Safety office
- ✓ Safety office (mobile)
- ✓ MEE Control room
- ✓ Incinerator control room
- ✓ Laboratory
- ✓ Security office
- ✓ Ambulance Van
- ✓ OHC (Mobile first aid box)

Routine checking of First Aid Box by HSE department.

Emergency Vehicle

Ambulance is available round the clock in factory premises to carry injured person into nearby hospital.

Hospital

Amex hospital Jolva & Apex Hospital Bharuch Hospital has all the facilities for treatment of serious cases and is well equipped with following. The hospitals are 10 km and 65 km away respectively BEIL Infrastructure Ltd, Dahej.

- ➢ X-Ray facilities, Pathological Laboratory.
- ➢ Well-equipped operation theatre and facilities to carry emergency surgery.
- ➢ Blood grouping facilities and Blood Bank.

The hospital has all the necessary specialists and medical staff with different wards and hospitalization.

Pls. refer Annexure – 22

9. TRANSPORT AND EVACUATION ARRANGEMENTS:

Transport & Evacuation Arrangements are available in the factory round the clock.

Pls. refer Annexure – 23

10. POLLUTION CONTROL ARRANGEMENTS:

Adequate pollution control arrangements for water, air & soil are provided.

Pls. refer Annexure – 24

11. OTHER ARRANGEMENTS:

Heavy vehicles like JCB, forklifts are available round the clock. Transporters for material are also available round the clock. Two DG sets are provided for alternate power supply in case of electricity failure.

Special equipment's like oxygen meter, LEL meter, VOC meter are easily available.

Weather monitoring system is installed to monitor following parameters:

- Ambient temperature
- Wind direction
- Wind speed
- Humidity
- Rain flow
- UV radiation
- Barometric pressure

Apart from these, BEIL has formed an Emergency Response Team to deal with any kind of emergency.

Pls. refer Annexure – 25

CHAPTER-IV

COMMUNICATION SYSTEM

The communication system beginning with raising the alarm, declaring the major emergency and procedure to make it known to others is explained below in brief.

1. RAISING THE ALARM:

In BEIL plant there are 02 Nos. of alarm/sirens. In case of an emergency, any person can press the button so that alarm/alarm can be heard. Alarm is audible all over the factory.

Siren Code

Sr. No.	Siren Type	Description
1	Fire or Other emergency	10 sec. ON & 5 sec. OFF three times
2	Gas leak	15 Sec. ON & 15 Sec. OFF four times
3	All clear	1 min. continue
4	Testing	1 Min. Continuous on every Wednesday

Pl. refer Annexure-26

Security personnel who will initiate appropriate action to call on/pass on information to all required persons. Complete list of internal phone nos. & external phone nos. is available with security personnel. Availability of emergency vehicle is always ensured.

Pl. refer Annexure-27 & 28 respectively for the list of internal phone nos. & external phone nos.

As standard procedure any person can raise the alarm to control the situation at earliest possible and avoid the development of major emergency, where appropriate early notification to outside agency is also needed.

2. DECLARING THE MAJOR EMERGENCY:

The declaration of major emergency puts many agencies on action and the running system may be disturbed which may be very costly at times or the consequences may be serious, therefore such declaration should not be decided on whims or immature judgment or without proper thought.

In BEIL plant only Site Main Controller (SMC) does declaration of major emergency. In absence of SMC, persons are nominated for declaration of emergency.

Pl. refer Annexure-29

3. TELEPHONE MESSAGES:

After hearing the emergency alarm and emergency declaration or even while just receiving the emergency message on phone, a telephone operator will immediately contact SMC and on his advice call the local fire brigade. In case internal/external telephone system becomes inoperative, he shall inform the Officer-HRD through a messenger/runner. In case fire is discovered but no alarm is sounding, he shall receive information about location from the person discovering the fire and thereafter immediately consult the Emergency Controller and inform on telephone to the staff, location of the Incident and to evacuate to their assembly points. His such duties are described in the emergency instruction booklet given as the last annexure.

Pl. refer Annexure-30

4. COMMUNICATION OF EMERGENCY:

The telephone operator or ECC receives message regarding emergency and informs relevant authorities.

1. Inside the Factory to the Employees

Through the internal plant Announcement System.

2. To Key Personnel Outside Normal Working Hours

The detail of key personnel availability after working hours is made available at security gate as well as plants. Availability of emergency vehicle is ensured to fetch the key personnel residing outside.

3. To The Outside Emergency Services & The Authorities

Facilities such as phones, emergency vehicle, and security personnel are available to help in calling outside emergency services and authorities.

The emergency will be immediately communicated to the government officers and other authorities such as fire brigade, police, district emergency authority, factory inspectorate, hospital etc.

4. To Neighboring Firms & The General Public

In case of emergency public will be cautioned regarding the same. Co-ordination of police will be sought for speedy action.

Pl. refer Annexure-31

CHAPTER-V

ACTION ON SITE

1. CO-RELATED ACTIVITIES:

Following three stage co-related activities provide better points for emergency preparedness, emergency actions and subsequent follow up.

(a) Pre-emergency activities

- Internal safety survey with regard to identification of hazards, availability of protective equipment, checking for proper installation of safety devices is carried out periodically.
- Periodic pressure testing of equipment.
- Periodic non-destructive testing of lines.
- Periodic safety/relief valves testing.
- Periodic fire hydrant system testing.
- Mutual aid scheme with the neighboring organizations for getting / extending help to each other in emergency.
- Mock drill to check up level of confidence, extent of preparedness of personnel to face emergency is being contemplated.
- Regular training to all personnel to create awareness.
- Adequate safety equipments are made available.
- Internal/ external communication system is maintained in good working order.
- 5 kms. Range siren system is installed which can be operated in case of emergency.
- Wind-cocks/wind recorders are installed inside the plan areas as prominent locations to indicate wind direction and velocity.
- Periodic checkup of emergency lights.

- Emergency Control Center is identified
- Safe assembly points are identified.
- Storage of adequate first aids treatment facilities.
- Statutory information is imparted to workers

(b) Emergency Time activities

During emergency, all personnel will work with specific objective in consultation with Incident Controller to tackle the situation.

(c) Post Emergency Time activities

Post emergency activities comprise of steps taken after the emergency is over so as to establish the reasons of the emergency and preventive measures.

The steps involved are-

- ✓ Collection of records
- ✓ Conducting enquiries and concluding preventive measures
- ✓ Making insurance claims
- ✓ Preparation of inquiry reports and suggestion scheme.
- ✓ Implementation of inquiry report's recommendations.
- ✓ Rehabilitate the affected persons within the plant and outside the plant.
- ✓ To restart the plant.

2. CONTROLLING EMERGENCY:

MODE OF EMERGENCY

Man made	**Natural Calamities**	**Extraneous**
Fire	Flood	Riots/Civil Disorder /Mob attack
Toxic Release	Earthquake	Terrorism
Spillage / Leakage of solid / liquid material during transportation	Cyclone	Bomb Threat
Unsafe act / condition		War
In-adequate maintenance		Food / water poisoning

Some hazardous events and their control procedures are explained below in brief:

(A) Fire

- ✓ Inform Incident Controller at once when the fire is noticed.
- ✓ Put off electrical mains for the plant where in fire is observed, connected MCC's for the plant should be put off.
- ✓ Fire lighting crew to be directed for immediate actions in the area for extinguishing the fire by use of fire extinguishers and water from fire hydrant posts.
- ✓ Simultaneously put off the source of gas emission.
- ✓ Steps to be taken to evacuate non-essential persons.
- ✓ Use of portable fire extinguishers like foam type, ABC type to be made to contain the solvent fire.
- ✓ Use of water to be made to extinguish the fire and cooling off the equipment and storage surface till the fire extinguished and equipment are cooled.
- ✓ In case of Carbon dioxide do not allow the persons to enter into the area till the time, the carbon dioxide is dispersed and diluted to avoid any suffocation.
- ✓ To put off the fire due to solvents make use of excessive foam/DCP/ABC type fire extinguishers & water fog. Make use of excessive water to cool the surface area of equipment.
- ✓ Provide gas masks, Goggles, Aprons, Helmets and safety wears to the firefighting team.
- ✓ Keep people away from the danger area.
- ✓ Do not permit any naked flame and smoking in the area.
- ✓ Stop leakages and flush the leaky liquid, do not allow flow the leaky liquid in the drain.
- ✓ Give the first aid to the injured persons.
- ✓ If necessary induce vomiting, give artificial respiration and the effected person should be sent to the nearest doctor/clinic.
- ✓ Inform neighboring industries and population.
- ✓ Contact fire brigade, Police, Doctor/Hospital and other authorities.
- ✓ Contact statutory authorities and give information.
- ✓ Cordoned off whole area to restrict the entry by posting security personnel.

Action after Fire is Extinguished

The Incident Controller shall…

a. Prepare immediate abnormal occurrence report as soon as possible and submit it to safety department/administration department.

b. The affected department head shall carry out an investigation and prepare a detailed report mentioning any further requirement of facilities for tackling such type of emergencies.

c. Before the plant is re-commissioned the mechanical/ electrical / instrumentation shall assess the danger to ensure equipment is safe for continued services.

d. Make a note of the fire extinguisher used and need replacement

(B) Toxic Release

- Inform Incident Controller when vapors/gas leakage is noticed.
- Try to close the necessary valves to stop the gas leakage.
- Call the firefighting crew to take the immediate action to curtail the gas emission and spread up by use of water or appropriate medium (water in the form of fog will reduce the concentration of acidic vapors in the surrounding).
- Start putting water on the source of leakage to minimize gas emission.
- During above operation use longer duration sets of breathing apparatus and full body protective suits apart from plastic or rubber gloves, boots and goggles.
- Keep people away from the danger area.
- Do not permit naked flame or smoking in the area.
- After stopping the leakages flush the area with ample water if the leaked material does not react with water. For the material, which reacts with water, absorb in sawdust & incinerate.
- Give the first aid to the injured persons.
- Bring the patient to the fresh air, give the victim sufficient water and milk and transport to health care facility.
- In the event of a fire, the emergency plan must be executed on a timely basis.

In case of release of liquid/vapors in high concentration the Site Main Controller will co-ordinate the activities with incident controller. Under his direction, plant will be shut down. Non-essential workers will be sent to assembly points.

(C) Spillage of solid waste during transportation:

- On Noticing spillage, intimate safety officer and Plant Manager through Intercom/telephone system and clearly inform about
    1) The Location
    2) Manifest No.
    3) Characteristics of material
- Evacuate & barricade the Area
- Use following PPEs
    - Boiler suit
    - Hand Gloves
    - Apron
    - Face Mask or Safety goggles
    - Helmet
    - Multi gas cartridge mask
    - Gum Boot
- Check Wind Direction & monitor the surrounding environment.
- Reach to the place through the opposite way to wind direction
- Cover the spilled are by using dry soil or fly ash as absorbing inert media.
- Collect the material in plastic bags / drums and clean the floor.
- Send the material for proper disposal.

(D) Leakage of liquid material during transportation:

- On Noticing leakage, intimate safety officer and Plant Manager through Intercom/telephone system and clearly inform about
    4) The Location
    5) Manifest No.
    6) Characteristics of material
- Evacuate & barricade the Area
- Use following PPEs
    - Boiler suit
    - Hand Gloves

- Apron
- Face Mask or Safety goggles
- Helmet
- Multi gas cartridge mask
- Gum Boot

- Check Wind Direction & monitor the surrounding environment.
- Reach to the place through the opposite way to wind direction
- Roll the drum and take down from the palate
- Put on other palates as such the leaky position of drum or container comes on upside, so the leakage of liquid can be stopped immediately.
- Cover the leaky part by applying liner or plastic bag and tight by using plastic string
- Use dry soil or fly ash as absorbing inert media and spray over the spilled liquid.
- After solidification collect the material in a plastic bag and clean the floor
- Send the material for proper disposal
- Send the leaky container or drum to Incinerable waste treatment area

(E) Landfill slope failure:

- Inform Incident Controller when slope failure is noticed
- Implementation of onsite emergency plan
- Incoming waste to be stopped
- Slop failure may increase exposure risk to personnel and public so necessary PPEs to be provided. Relocation and covering of waste to be performed quickly and safely
- Perform mitigating activity to limit further contamination or damage
- Work to be done round the clock
- Primary report to be prepared and reviewed at regular intervals regarding the activities of waste shifting.

(F) Water accumulation in landfill due to heavy rain:

We are keeping four nos of Diesel pump of 40 m^3/hr capacity and 5 Electric pump of 80 m^3/hr capacity to pump out the accumulated water due to heavy rain. In the event of a landfill instability such as a slop failure the first concern is always safety, safety of site personnel, safety of site entrants, and safety of general public. The situation will need to be assessed concisely and necessary emergency procedures and precautions implemented as quickly as possible.

- Inform Incident Controller when water accumulation is noticed
- Implementation of onsite emergency plan
- Start pumps to pump out the water accumulated.
- Check the water quality, if contaminated send for treatment.
- Necessary PPEs like helmet, gum boot, hand gloves, rain coat to be provided. If required, relocation and covering of waste to be performed quickly and safely
- Perform mitigating activity to limit further contamination or damage
- Work to be done round the clock
- Primary report to be prepared and reviewed at regular intervals regarding the activities of waste shifting.

(G) Electric Shock:

- Electric shock results in irreversible damage to brain cells followed by deterioration of other organs.
- Rescue and first aid –
- Do first thing first, quickly and without fuss or panic.
- Switch off the supply if this can be done at once. If not possible, use a dry stick, dry cloth or other nonconductor to separate the victim of electrical contact. The rescuer must avoid receiving shock himself by wearing gloves or using a jacket to pull the victim. Always keep in mind that delay in rescue and resuscitation may be fatal. Every second counts.
- Artificial respiration

o Give artificial respiration, if breathing has stopped. There are several methods of artificial respiration. If the victim is not injured over the face, try mouth to mouth. If the victim is injured over the face, use Silverster Brosch method.

(H) Snake Bite:

- Reassure the patient
- Do not allow the person to run or walk
- Apply a ligature above the wound (in between the heart and the wound) if the bite is in the leg or hand.
- Wash the wound with potassium permanganate solution or with soap and water.
- Allow free bleeding.
- Never suck the blood from the wound.
- Treat for shock.
- Arrange immediate hospitalization, by transporting the patient in a lying down position.

3. EVACUATION & TRANSPORT:

In case of emergency, evacuation and transportation of non-essential workers is carried out immediately after hearing Siren. The effected personnel will be transported for medical aid. Availability of transportation is always essential.

4. SAFE CLOSE DOWN:

During emergency, plant shut down will be carried out if you hear siren or instruction from SMC or Incident Controller.

5. USE OF MEDICAL AID:

The help from outside i.e. mutual aid will be taken if required by Site Main Controller.

6. USE OF EXTERNAL AUTHORITIES:

As and when necessary, statutory authorities, police, pollution control personnel, medical aid/center, ambulance etc. will be contacted.

7. MEDICAL TREATMENT:

The effected personnel will be brought to safer place immediately to give them first aid. Immediate medical attention will be sought.

8. ACCOUNTING FOR PERSONNEL:

Proper accounting for personnel as laid down in all the shifts. The number of persons present inside the plant premises, their duty etc. will be available with the security staff. This record will be regularly updated and will be made available.

9. ACCESS TO RECORD:

The relatives of affected personnel will be informed. The details regarding all employees are made available at Administration building.

10. PUBLIC RELATIONS:

A senior manager is appointed as the sole authoritative source of information to the news media. All other employees are instructed not to divulge information themselves which may, in the event, be misleading or inaccurate.

11. REHABILITATION:

The affected area will be cleared from emergency activities only after positive ascertaining of the system in all respects. The entry to affected area will have to be restricted until statutory authorities visit and inspect the spot of incident. Nothing should be disturbed from the area till their clearance. The Site Main Controller will be incharge of the activities to be undertaken.

The plan will cover emergencies, which can be brought under control by the works with the help of emergency team/fire services. Emergency Control Plan for gas leak & fire has been prepared for entire factory.

LEVEL OF EMERGACY

Level of emergency can be classified in three categories:

Level 1

The emergency, which is containable within the plant premises. Emergency may be due to

A. Small spot fire in the Incinerator plant or Landfill

B. Low quantity toxic gas leakage for short duration / small organic liquid leakage

C. Collapsing of small equipment's / line failure.

D. Electrical Shock

E. Snake bite

Level 2

The emergency, which is containable within the factory premises. Emergency may due to

A. Big fire in factory premises/Fall of structure/failure of line, vessel etc...

B. Medium scale explosion.

C. Heave leakage of toxic / flammable gas for short duration

D. Leakage from drum containing toxic hazardous liquid waste

E. Collapsing of heap of soil during construction of landfill

Level 3

1. Incinerator

Likelihood of cloud formation of toxic and / or flammable gases & drifting of such cloud affecting the general public and/or surrounding industries. The emergency may be due to

A. Explosion in high-pressure vessel containing toxic / flammable material.

B. Heavy leakage of toxic material or corrosive fumes for a long duration, from pipeline or storage tanks.

C. Fire/Explosion in storage areas causing heave radiation/fire balls etc.

2. Landfill

A. Slop failure of landfill

B. Flood hazards

- Water accumulation due to heavy rain
- Resulting from Dam and / or reservoir failure*
- Resulting from seismic sea waves*

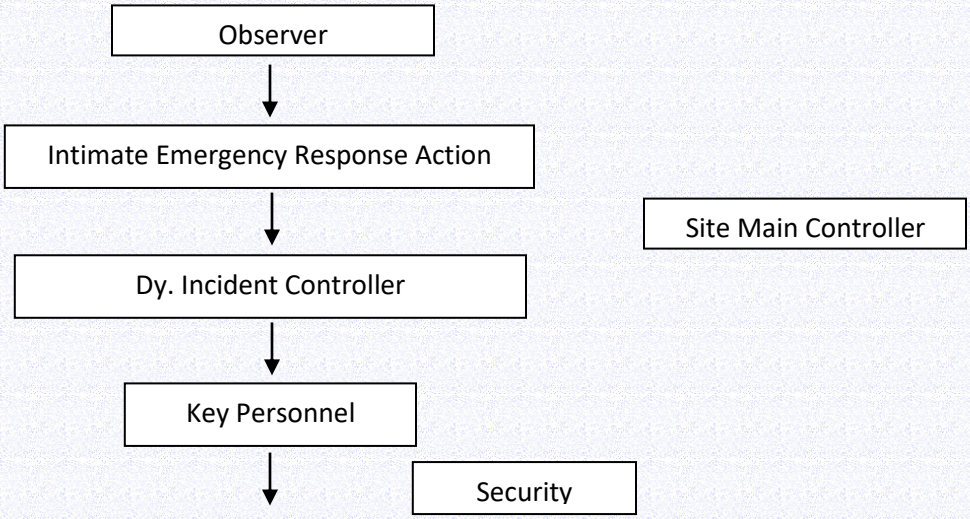
*BEIL is facility at Ankleshwar GIDC, Dist. Bharuch. Neither a dam nor reservoir near to the Facility, which failure can affect the TSDF. The Sea Mean level is below 32.78 Meter and highest flood level height is below 12.77 Meter from BEIL

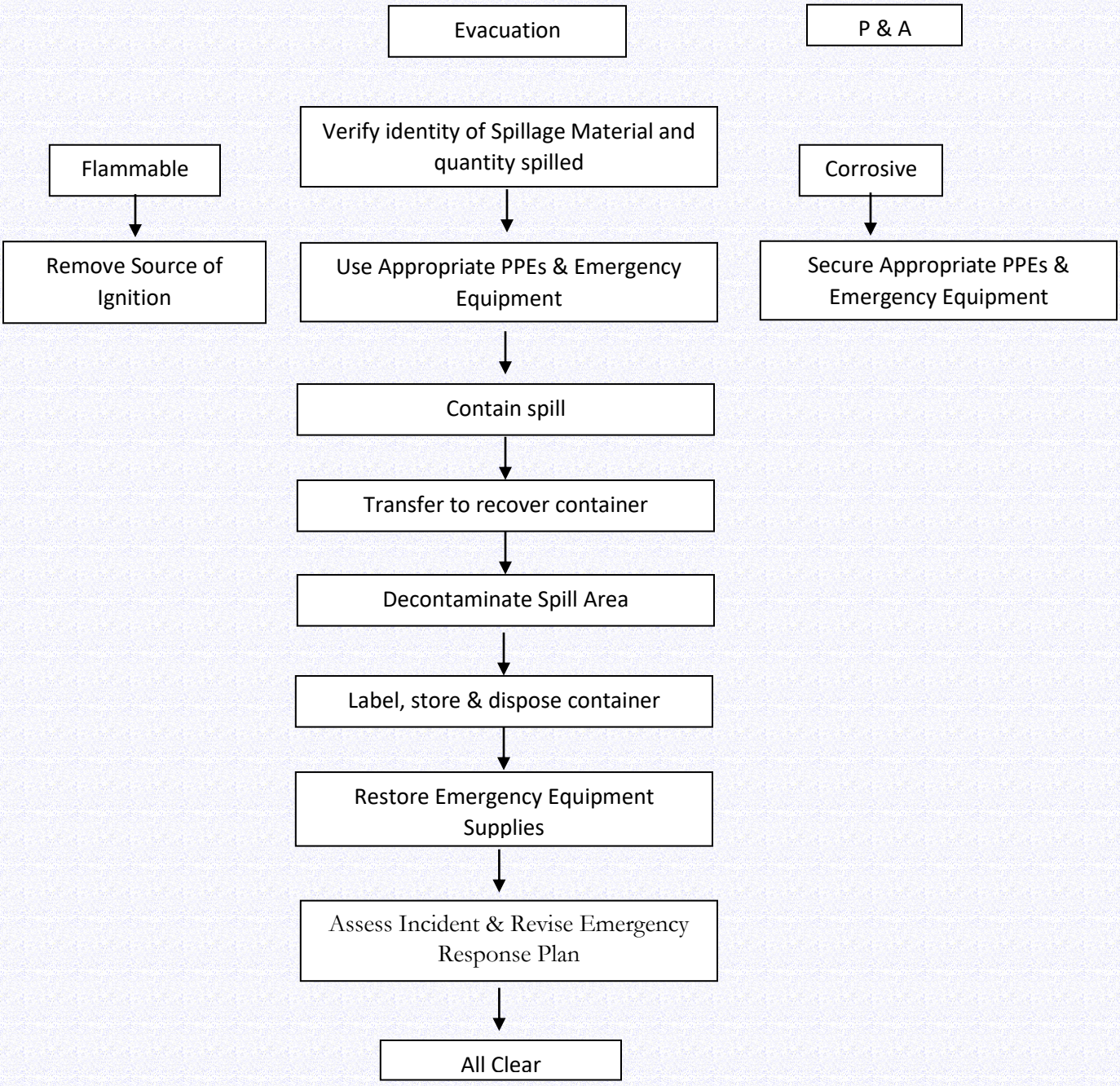
ON HEARING EMERGANCY SIREN

*Non-essential personnel shall follow safe route for evacuation.

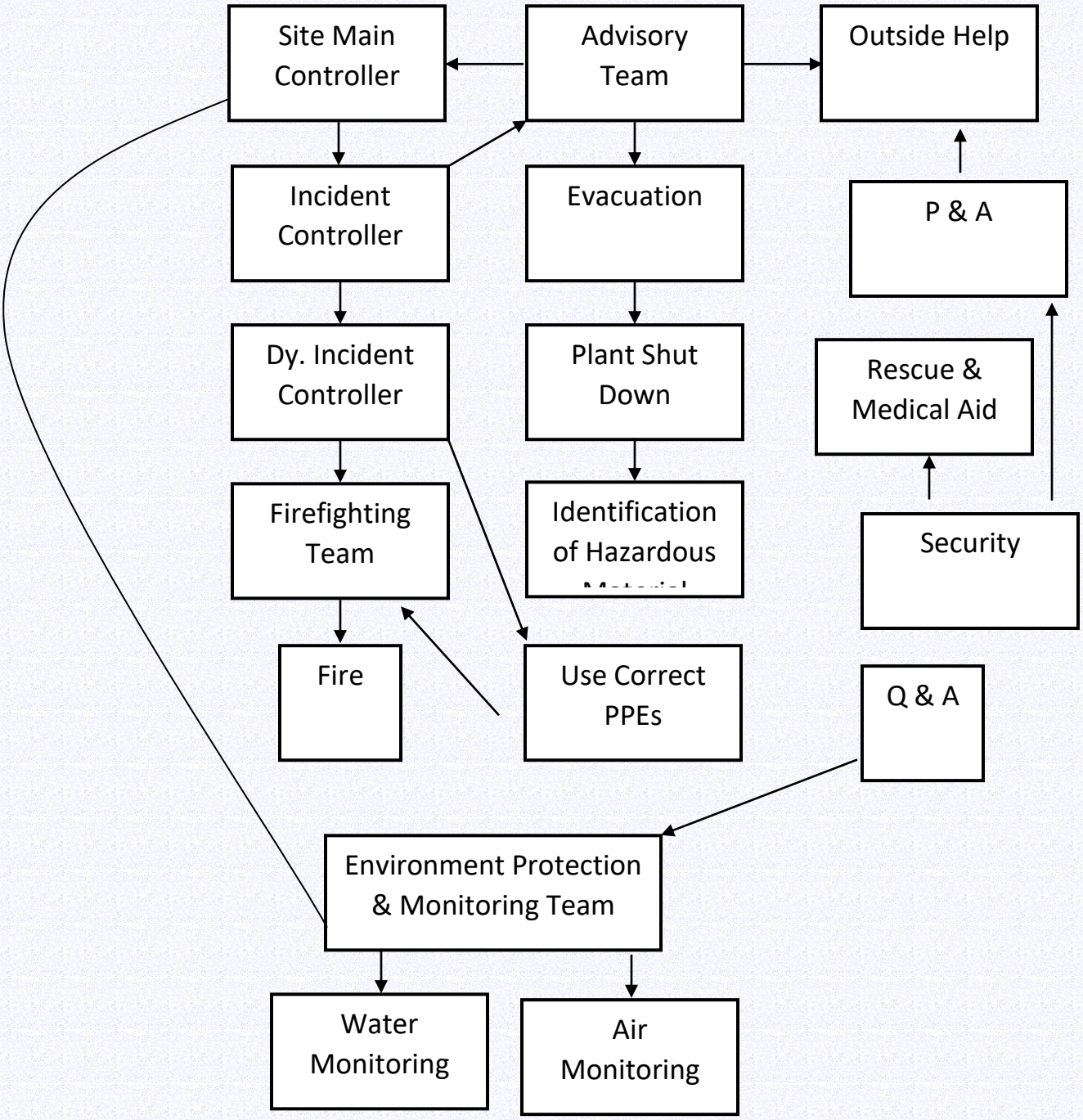
Non-essential personnel will not rush towards incident site.

Emergency Response Flow Chart for Major Spills




Evacuation
P & A
Verify identity of Spillage Material and quantity spilled
Flammable
Corrosive
Remove Source of Ignition
Use Appropriate PPEs & Emergency Equipment
Secure Appropriate PPEs & Emergency Equipment
Contain spill
Transfer to recover container
Decontaminate Spill Area
Label, store & dispose container
Restore Emergency Equipment Supplies
Assess Incident & Revise Emergency Response Plan
All Clear

Emergency Response Flow Chart for Major Fire



CHAPTER-VI

OFF-SITE EMERGENCY PLAN

1. NEED OF THE EMERGENCY PLAN:

Depending on the wind direction and velocity the effects of accident in factory may spread to outside its premises. To avoid major disaster, it is essential to seek guidance/assistance of statutory authorities, police, and health department. The movement of traffic may have to be restricted.
Required information will be given to the authority and consultation will be sought for remedial measures.

Purposes of the off-site emergency plan are:

a) To provide the local/district authorities, police, fire brigade, doctors, surrounding industries and public the basic information of risk and environmental impact assessment and appraise them of the consequences and the protection/ prevention measures and to seek their help to communicate with public in case of major emergency.

b) To assist district authorities for preparing the off-site emergency plan for district or particular area and to organize rehearsals from time to time and initiate corrective actions on experience.

2. STRUCTURE OF THE OFF-SITE EMERGENCY PLAN:

3. ROLE OF THE FACTORY MANAGEMENT:

The Emergency Controller will provide a copy of action plan to the statutory authorities in order to facilitate preparedness of district/area off-site emergency plan.

4. ROLE OF THE EMERGENCY CO-ORDINATION OFFICE (ECO):

He will be a senior police or fire officer co-ordinating with Emergency Controller. He will utilize emergency control center.

5. ROLE OF THE LOCAL AUTHORITY:

Preparation of off-site plan lies with local authorities. An emergency planning officer (EPO) works to obtain relevant information for preparing basis for the plan & ensures that all that organization involved in offsite emergency and to know their role and responsibilities.

Separation distances in respect of chemicals in BEIL is given in Annexure 32

Pls. refer Annexure 32

6. ROLE OF THE FIRE AUTHORITY:

The fire authorities will take over the site responsibility from incident controller after arrival. They will be familiarized with site of flammable materials water and foam applies points, firefighting equipment.

7. ROLE OF THE POLICE AND EVACUATION AUTHORITY:

Senior Police Officer designed as emergency coordinating officer shall take overall control of an emergency. The duties include protection of life, property and control of traffic movement.

Their functions include controlling standards, evacuating public, and identifying dead and dealing with casualties and informing relatives of dead or injured.

There may be separate authorities / agencies to carry out evaluation and transportation work.

Evacuation depends upon the nature of accident, in case of fire only neighboring localities shall be alerted. Whole areas have to be evacuated in case of toxic release.

8. ROLE OF THE HEALTH AUTHORITY:

After assessing the extent of effect caused to a person the health authorities will treat them

9. ROLE OF THE MUTUAL AID AGENCIES:

Various types of mutual aid available from the surrounding factories and other agencies will be utilized.

10. ROLE OF THE FACTORY INSPECTORATE:

In the event of an accident, the Factory Inspector will assist the District Emergency Authority for information and helping in getting Neighboring Industries / mutual aid from surrounding factories.

In the aftermath, Factory Inspector may wish to ensure that the affected areas are rehabilitated safely.

CHAPTER-VII

TRAINING, REHEARSHAL AND RECORDS

1. NEED OF REHEARSAL & TRAINING:

Regular training and rehearsal program of emergency procedures shall be conducted with elaborate discussions and testing of action plan with mock drill. If necessary, the co-operation / guidance of outside agencies will be sought.

2. SOME CHECK POINTS:

Following check points are help-full in assessing the adequacy of the emergency plan, At the time of training these can be checked:

- The extent of realistic nature of incidents.
- Adequate assessment of consequences of various incidents.
- Availability of sufficient resources such as water, firefighting aids, personnel.
- The assessment of time scales.
- Logical sequences of actions.
- The involvement of key personnel in the preparation of plan.
- At least 24 hours cover to take account of absences due to sickness and holiday, minimum shift manning.
- Satisfactory co-operation with local emergency services and district or regional emergency planning offices.
- Adequacy of site.

3. RECORDS AND UPDATING THE PLAN:

All records of various on-site and off-site emergency plans of factory will be useful alone with those of the factors by which statutory authorities draw a detailed plan for the whole area/district. The records of the activity is being updated regularly.

4. EMERGENCY BOOKLET:

The duties/functions of particular role are mentioned in the last annexure given as Emergency Instruction Booklet.

Pls. refer Annexure 33

ANNEXURE-1

IDENTIFICATION OF FACTORY

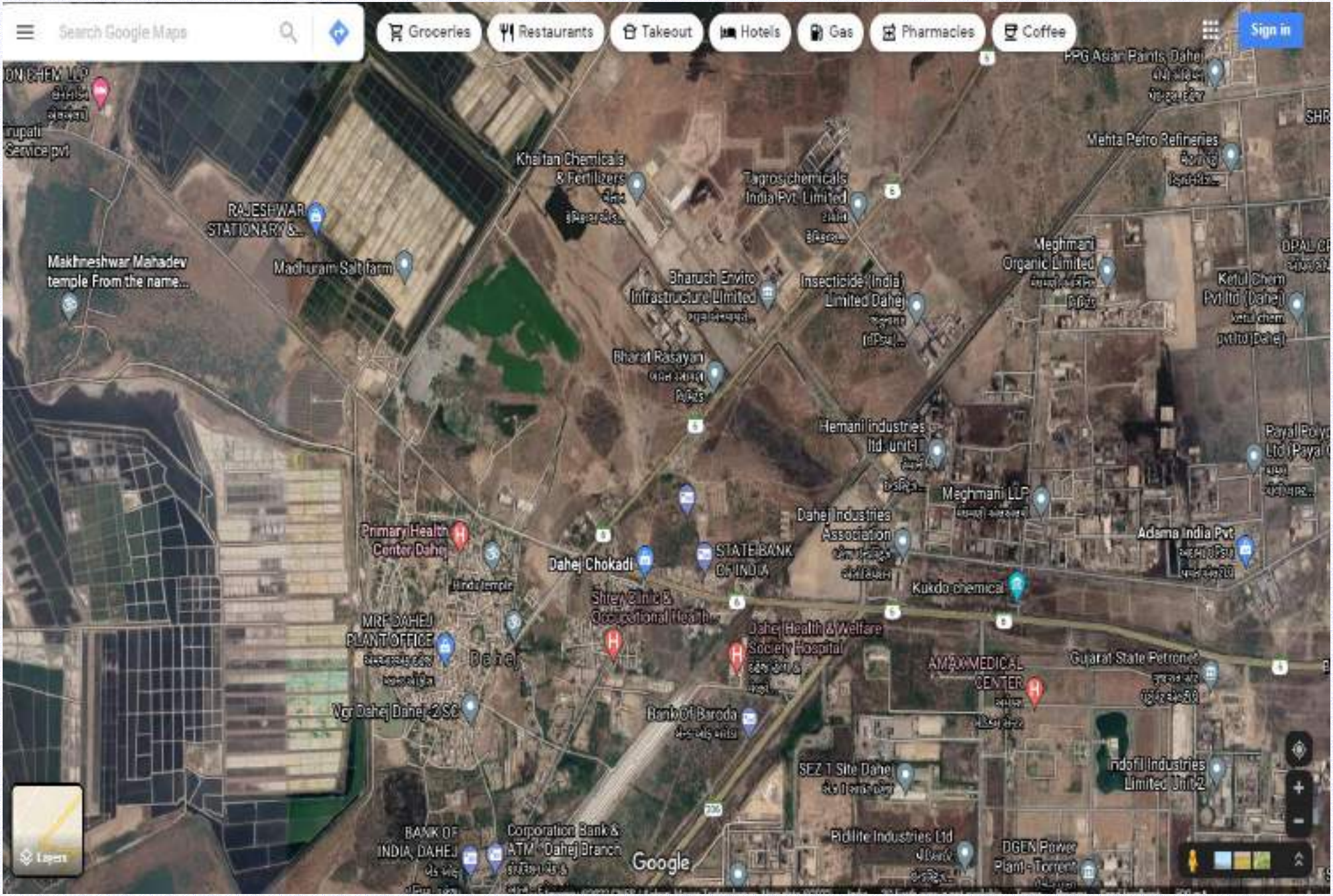
1.	Name of the Factory	:
2.	Address	:
3.	Telephone No.	:
4.	Fax No.	:
5.	E-mail I.D.	:
6.	Full Name & Address of the Factory Occupier	:
	Telephone No.	:
7.	Full Name & Address of the Factory Manager	:
8.	Manufacturing process	:
9.	Shift details:	:

Name of the Shift	
	Staff
General(G)	32
First (A)	03
Second (B)	02
Third	02
TOTAL	39

Name of the shift	Name & Designation	Place of Availability	Res.
General(G)	Mr. Rajesh Mistry(DGM)	Plant Office	9909994904
First (A)	Mr. Bhavesh Mistry(Sr. Manager)	Plant Office	9978996347
Second (B)	Mr. Abhay Kumar	Control Room	
Third I	Mr. Manish Shah(Officer)	Control Room	9727990047
On Holiday	Mr. Jay Degadwala	Control Room	8511043083

ANNEXURE-2

MAP OF THE AREA



ANNEXURE-3

FACTORY LAY OUT

ANNEXURE-4

STORAGE HAZARDS AND CONTROLS

Name of the hazardous substance	**Max. Storage Capacity**	**Place of its storage**	**State & operating pressure & Temperature**	**Type of Hazards possible (fire, explosion toxic release, spill, etc.)**	**Control Measures provided**
1	2	3	4	5	6
High CV liquid waste	75 KL	ST1031	Liquid State, stored under150 mm WC pressure & ambient temp.	➢ Causes irritation to skin & eyes. ➢ Inhalation causes dizziness, eye irritation & headache. ➢ Ingestion of liquid may become fatal to human life. ➢ Highly flammable fire & explosion hazard	➢ Mechanical seal for transferring pump. ➢ Personal protective equipments are being used ➢ Provision of Safety shower ➢ Breather Valve and venting line provided and line is connected with scrubbing system. ➢ Inter locking system provided. ➢ Provision of Fire Hydrant System & Extinguishers. ➢ Grounding of storage vessel to earth pit. ➢ Declared as No Hot Work Zone. ➢ Tanks are provided with dip pipe. ➢ Proper Earthing & bonding before Loading/Unloading operations. ➢ N2 blanketing system. ➢ Automatic sprinkler system provided.
High CV liquid waste	75 KL	ST1032			
High CV liquid waste	75 KL	ST 1033			
High CV liquid waste	75 KL	ST1021			
High CV Liquid waste	75KL	ST-1022	Liquid State, stored under 150 mm wc pressure & ambient temp.	➢ Causes irritation to skin & eyes. ➢ Inhalation causes dizziness, eye irritation & headache.	
High CV Liquid	75 KL	ST-1023			

waste				➢ Ingestion of liquid may become fatal to human life.	
Aqueous waste	75KL	ST-2001	Liquid State, stored under 150 mm WC pressure & ambient temp.	➢ Causes irritation to skin & eyes. ➢ Inhalation causes dizziness, eye irritation & headache. ➢ Ingestion of liquid may become fatal to human life. ➢ Highly flammable fire & explosion hazard	➢ Mechanical seal for transferring pump. ➢ Personal protective equipments are being used ➢ Provision of Safety shower ➢ Breather Valve and venting line provided and line is connected with scrubbing system. ➢ Inter locking system provided. ➢ Provision of Fire Hydrant System & Extinguishers. ➢ Grounding of storage vessel to earth pit. ➢ Declared as No Hot Work Zone. ➢ Tanks are provided with dip pipe. ➢ Proper Earthing & bonding before Loading/Unloading operations. ➢ N2 blanketing system. ➢ Automatic sprinkler system provided.
Aqueous waste	75 KL	ST-2002	Liquid State, stored under ambient pressure & temp.	➢ Causes irritation to skin & eyes. ➢ Inhalation causes dizziness, eye irritation & headache. ➢ Ingestion of liquid may become fatal to human life.	
Aqueous waste	75 KL	ST-2003			
Aqueous waste	75 KL	ST-2004			
Aqueous waste	75 KL	ST-2005			
Aqueous waste	75 KL	ST-2006			
Caustic Lye	30 MT	T-3030A	Liquid State, stored under ambient pressure & temp.	➢ Skin irritation due to material contact. ➢ Damage to eye due to direct contact. ➢ Ingestion may become fatal to human life.	➢ Mechanical seal for transferring pump. ➢ Personal protective equipments are being used ➢ Provision of Safety shower
Bleed Water	50 KL	T-3055 &3056	Liquid State, stored under ambient	➢ Causes irritation to skin & eyes.	➢ Mechanical seal for transferring pump.

			pressure & temp.	➢ Inhalation causes dizziness, eye irritation & headache. ➢ Ingestion of liquid may become fatal to human life.	➢ Personal protective equipments are being used ➢ Provision of Safety shower
Co-processing reactor	15 KL	R-1041	Liquid State, stored under N2 blanket with 150 mm WC pressure & ambient temp.	➢ May Cause irritation to skin & eyes. ➢ Inhalation causes dizziness, eye irritation & headache. ➢ Ingestion may become fatal to human life.	➢ Mechanical seal for transferring pump. ➢ Personal protective equipments are being used ➢ Provision of Safety shower ➢ Breather Valve and venting line provided and line is connected with RK Blower system. ➢ Grounding of storage vessel to earth pit. ➢ Declared as No Hot Work Zone. ➢ Tanks are provided with dip pipe. Proper Earthing & bonding before Loading/Unloading operations
Co-processing reactor	15 KL	R-1042			
Co-processing reactor	15 KL	R-1043			
Co-processing Tank	20 KL	ST-1051	Liquid State, stored under N2 blanket with 150 mm WC pressure & ambient temp.	➢ Causes irritation to skin & eyes. ➢ Inhalation causes dizziness, eye irritation & headache. ➢ Ingestion of liquid may become fatal to human life. ➢ Highly flammable fire & explosion hazard	
Co-processing Tank	20KL	ST-1052			
Co-processing Tank	20 KL	ST-1053			
Hydrated Lime	50 TON	Old Storage yard	Solid Powder State, stored under ambient pressure & temp.	➢ Dust May Cause irritation to skin & eyes.	➢ Stored in a segregated & approved area. ➢ Personal protective equipments are being used
Hydrated Lime	70 TON	New Storage yard	Solid Powder State, stored under ambient pressure & temp.	➢ Dust May Cause irritation to skin & eyes.	➢ Stored in a segregated & approved area. ➢ Personal protective equipments are being used
Activated carbon	02 TON	Storage yard	Solid Powder State, stored under	➢ In case of contact, may Cause irritation to skin &	➢ Store in a segregated, approved & ventilated area.

			ambient pressure & temp.	eyes. ➢ Flammable.	➢ Personal protective equipments are being used ➢ Fire extinguishers & Fire hydrant system provided
Incinerable hazardous waste	10529 MT	Storage sheds no. 1 to 03	Aqueous, Organic Liquid, Solid, Semi Solid & Tarry Waste stored under ambient pressure & temp	➢ May Cause irritation to skin & eyes. ➢ Inhalation causes dizziness, eye irritation & headache. ➢ Ingestion may become fatal to human life. ➢ Fire hazard	➢ Provision of Fire Hydrant System & Extinguishers. ➢ Provision of Water sprinkler system ➢ Provision of heat & smoke detectors. ➢ Provision of Safety Shower.
High TDS Effluent	150 KL	ST-01	Liquid State, stored under ambient pressure & temp.	➢ May Cause irritation to skin & eyes. ➢ Inhalation causes dizziness, eye irritation & headache. ➢ Ingestion may become fatal to human life.	➢ Mechanical seal for transferring pump. ➢ Personal protective equipments are being used ➢ Provision of Safety shower
	150 KL	ST-02			
	150 KL	ST-03			
Condensate water	450 KL	CS Tank	Liquid State, stored under ambient pressure & temp.	➢ May Cause slight irritation to skin & eyes. ➢ Ingestion may become fatal to human life.	➢ Mechanical seal for transferring pump. ➢ Personal protective equipments are being used
Coal	60.0MT	Storage yard	Solid Powder State, stored under ambient pressure & temp.	➢ Fire hazard	➢ Provision of Fire Hydrant System & Extinguishers

ANNEXURE-5

MATERIAL SAFETY DATA SHEET

INDEX

MSDS of commonly used Volatile Organic Compounds (Solvents)

Material Safety Data Sheet

Chlorine

Section 1. Chemical product and company identification

Product name	**:** Chlorine
Supplier	**:** AIRGAS INC., on behalf of its subsidiaries 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
Product use	**:** Synthetic/Analytical chemistry.
Synonym	**:** Cl2; Bertholite; Chloor; Chlor; Chlore; Chlorine mol.; Cloro; Molecular chlorine; UN 1017
MSDS #	**:** 001015
Date of	**: 4/26/2010.**
Preparation/Revision	**:** 1-866-734-3438
In case of emergency	
Section 2. Hazards identification	
Physical state	**:** Gas. [GREENISH-YELLOW GAS WITH SUFFOCATING ODOR]
Emergency overview	**:** DANGER! OXIDIZER. CAUSES SEVERE RESPIRATORY TRACT, EYE AND SKIN BURNS. HARMFUL IF INHALED. MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE. CONTENTS UNDER PRESSURE. Do not puncture or incinerate container. Do not breathe gas. Do not get on skin or clothing. May cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container closed. Do not get in eyes, on skin or on clothing. Avoid breathing gas. Wash thoroughly after handling. Store in tightly-closed container. Avoid contact with combustible materials.

	Contact with rapidly expanding gases can cause frostbite.
Target organs	**:** May cause damage to the following organs: lungs, upper respiratory tract, skin, eyes.
Routes of entry	**:** Inhalation Dermal Eyes
Potential acute health effects	
Eyes	**:** Severely corrosive to the eyes. Causes severe burns. Contact with rapidly expanding gas may cause burns or frostbite.
Skin	**:** Severely corrosive to the skin. Causes severe burns. Contact with rapidly expanding gas may cause burns or frostbite.
Inhalation	**:** Toxic by inhalation. Severely corrosive to the respiratory system.
Ingestion	**:** Ingestion is not a normal route of exposure for gases
Potential chronic health effects	**:** **CARCINOGENIC EFFECTS**: A4 (Not classifiable for humans or animals.) by ACGIH. **MUTAGENIC EFFECTS**: Not available. **TERATOGENIC EFFECTS**: Not available.
Medical conditions aggravated by over-exposure	**:** Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

Chlorine

Section 3. Composition, Information on Ingredients

Name	CAS number	% Volume	Exposure limits
Chlorine	7782-50-5	100	**ACGIH TLV (United States, 1/2009).** STEL: 2.9 mg/m³ 15 minute(s). STEL: 1 ppm 15 minute(s). TWA: 1.5 mg/m³ 8 hour(s). TWA: 0.5 ppm 8 hour(s). **NIOSH REL (United States, 6/2009).** CEIL: 1.45 mg/m³ 15 minute(s). CEIL: 0.5 ppm 15 minute(s). **OSHA PEL (United States, 11/2006).** CEIL: 3 mg/m³ CEIL: 1 ppm **OSHA PEL 1989 (United States, 3/1989).** STEL: 3 mg/m³ 15 minute(s). STEL: 1 ppm 15 minute(s). TWA: 1.5 mg/m³ 8 hour(s). TWA: 0.5 ppm 8 hour(s).

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training.If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact **:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Frostbit: Try to warm up the frozen tissues and seek medical attention.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: As this product is a gas, refer to the inhalation section.

Section 5. Fire-fighting measures

Flammability of the product: Non-flammable.

Products of combustion : Decomposition products may include the following materials: halogenated compounds

Fire hazards in the presence of various substances :Extremely flammable in the presence of the following materials or conditions: reducing materials, combustible materials, organic materials and alkalis.

Fire-fighting media and Instructions **:** Use an extinguishing agent suitable for the surrounding fire.

Apply water from a safe distance to cool container and protect surrounding area. If involved in fire, shut off flow immediately if it can be done without risk. Contains gas under pressure. Contact with combustible material may cause fire. This material increases the risk of fire and may aid combustion. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Special protective equipment for fire-fighters **:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions	**:** Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Eliminate all ignition sources if safe to do so. Do not touch or walk through spilled material. Shut off gas supply if this can be done safely. Isolate area until gas has dispersed.
Environmental precautions	**:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up	**:** Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Handling	**:** Use only with adequate ventilation. Wash thoroughly after handling. High pressure gas. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Do not get in eyes, on skin or on clothing. Keep container closed. Do not get on skin or clothing. Store in tightly-closed container. Avoid contact with combustible materials. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
Storage	**:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalis, reducing agents and combustibles. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Engineering controls	**:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Personal protection	
Eyes	**:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Skin	**:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory	**:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. The applicable standards are (US) 29 CFR 1910.134 and (Canada) Z94.4-93

Hands	**:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Personal protection in case of a large spill	**:** Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Full chemical-resistant suit and self-contained breathing apparatus should be worn only by trained and authorized persons.

Product name

Chlorine

ACGIH TLV (United States, 1/2009).
STEL: 2.9 mg/m³ 15 minute(s).
STEL: 1 ppm 15 minute(s).
TWA: 1.5 mg/m³ 8 hour(s).
TWA: 0.5 ppm 8 hour(s).
NIOSH REL (United States, 6/2009).
CEIL: 1.45 mg/m³ 15 minute(s).
CEIL: 0.5 ppm 15 minute(s).
OSHA PEL (United States, 11/2006).
CEIL: 3 mg/m³
CEIL: 1 ppm
OSHA PEL 1989 (United States, 3/1989).
STEL: 3 mg/m³ 15 minute(s).
STEL: 1 ppm 15 minute(s).
TWA: 1.5 mg/m³ 8 hour(s).
TWA: 0.5 ppm 8 hour(s).

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Molecular weight	70.9 g/mole
Molecular formula	Cl2
Boiling/condensation point	-33.9°C (-29°F)
Melting/freezing point	-101.1°C (-150°F)
Critical temperature	143.9°C (291°F)
Vapor pressure	85.3 (psig)
Vapor density	2.4 (Air = 1)
Specific Volume (ft^3/lb)	5.4054
Gas Density (lb/ft^3)	0.185

Section 10. Stability and reactivity

Stability and reactivity	The product is stable.
Incompatibility with various substances	Extremely reactive or incompatible with the following materials: reducing materials, combustible materials, organic materials and alkalis.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure
chlorine	LC50 Inhalation Gas.	Rat	293 ppm	1 hours
	LC50 Inhalation Gas.	Rat	293 ppm	1 hours
	LC50 Inhalation Gas.	Mouse	137 ppm	1 hours

IDLH	10 ppm
Chronic effects on humans	**CARCINOGENIC EFFECTS**: A4 (Not classifiable for humans or animals.) by ACGIH. May cause damage to the following organs: lungs, upper respiratory tract, skin, eyes.
Other toxic effects on humans	Hazardous by the following route of exposure: of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant).

Specific effects

Carcinogenic effects	No known significant effects or critical hazards.
Mutagenic effects	No known significant effects or critical hazards.
Reproduction toxicity	No known significant effects or critical hazards.

Section 12. Ecological information

Ecotoxicity data

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
chlorine	-	Acute LC50 0.75 mg/L Marine water	Crustaceans - Blue crab – Callinectes sapidus - Adult	48 hours
	-	Acute LC50 838 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus racovitzai	2 days
	-	Acute LC50 752 to 33400 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus racovitzai	2 days
	-	Acute LC50 380 to 3390 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus racovitzai	2 days
	-	Acute LC50 354 to 488 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus racovitzai	2 days
	-	Acute LC50 150 ug/L Fresh water	Daphnia – Water flea – Daphnia magna	48 hours
	-	Acute LC50 136 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus racovitzai	2 days
	-	Acute LC50 130 ug/L Fresh water	Daphnia – Water flea – Daphnia magna	48 hours
	-	Acute LC50 120 ug/L Fresh water	Daphnia – Water flea – Daphnia magna	48 hours
	-	Acute LC50 116 ug/L Fresh water	Daphnia – Water flea – Daphnia magna	48 hours
	-	Acute LC50 110 ug/L Fresh water	Daphnia – Water flea – Daphnia pulex	48 hours
	-	Acute LC50 107 to ug/L Fresh water 110110	Fish - Brook trout – Salvelinus fontinalis - Juvenile (Fledgling, Hatchling, Weanling) - 7.5 to 10 cm	96 hours
	-	Acute LC50 102 to 124 ug/L Fresh water	Fish - Brook trout – Salvelinus fontinalis - Juvenile	96 hours

			(Fledgling, Hatchling, Weanling) - 10 to 15 cm	
	-	Acute LC50 91 ug/L Fresh water	Daphnia – Water flea – Daphnia pulex	48 hours
	-	Acute LC50 90 ug/L Marine water	Fish - Spot - Leiostomus xanthurus	96 hours
	-	Acute LC50 85 to 5670 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus racovitzai	2 days
	-	Acute LC50 85 ug/L Fresh water	Daphnia – Water Fresh water magna	48 hours
	-	Acute LC50 75 ug/L Fresh water	Daphnia – Water flea – Daphnia pulex	48 hours
	-	Acute LC50 40 ug/L Fresh water	Daphnia – Water flea – Daphnia pulex	48 hours
	-	Acute LC50 37 ug/L Marine water	Fish – Atlantic silverside - Menidia menidia	96 hours
	-	Acute LC50 37 to 220 ug/L Marine water	Fish – Northern pipefish – Syngnathus fuscus	96 hours
	-	Acute LC50 30 ug/L Fresh water	Daphnia – Water flea – Daphnia pulex	48 hours
	-	Acute LC50 29 ug/L Fresh water	Fish – Rainbow trout,Donaldso trout – Oncorhynchus mykiss	96 hours
	-	Acute LC50 13.6 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus racovitzai	2 days
	-	Acute LC50 40 ug/L Fresh water	Daphnia – Water flea – Daphnia pulex	48 hours
	-	Acute LC50 37 ug/L Marine water	Fish – Atlantic silverside - Menidia menidia	96 hours
	-	Acute LC50 37 to 220 ug/L Marine water	Fish – Northern pipefish – Syngnathus fuscus	96 hours
	-	Acute LC50 30 ug/L Fresh water	Daphnia – Water flea – Daphnia pulex	48 hours
	-	Acute LC50 29 ug/L Fresh water	Fish – Rainbow trout,Donaldson Oncorhynchus	96 hours

			mykiss	
	-	Acute LC50 14 ug/L Fresh water	Fish – Rainbow trout,Donaldson trout Oncorhynchus mykiss	96 hours
	-	Acute LC50 13.6 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus racovitzai	2 days
	-	Acute LC50 2.03 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus racovitzai	2 days
	-	Acute LC50 4720 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus racovitzai	2 days

Environmental fate **:** Not available

Environmental hazards **:** Water polluting material. May be harmful to the environment if released in large

Toxicity to the environment: Not available

Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation.Return cylinders with residual product to Airgas, Inc.Do not dispose of locally.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group		Additional information
DOT Classification	UN1017	CHLORINE	2.3	Not applicable (gas).		Marine Pollutant **Reportable**

					  	**quantity** 10lbs(4.45kg) **Limited quantity** Yes **Packaging** Instruction **Passenger aircraft** Quantity Limitation: Forbidden: **Cargo aircraft** Quantity Limitation : Forbidden: **Special provision** 2,B9,B14,T50,TP19
TDG Classification	UN1017	CHLORINE	2.3	Not applicable	  	Marine Pollutant **Explosive limit and limited quantity index** 0 **ERP index** 500 **Passenger Carrying ship Index** Forbidden **Passenger carrying Road or Rail Index** Forbidden
Mexico Classification	UN 1017	Chlorine	2.3	Not applicable(gas)		-

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product.

Section 15. Regulatory information

United States

U.S. Federal regulations	TSCA 8(a) CAIR: chlorine **United States inventory (TSCA 8b):** This material is listed or exempted. **SARA 302/304/311/312 extremely hazardous substances**: chlorine **SARA 302/304 emergency planning and notification**: chlorine **SARA 302/304/311/312 hazardous chemicals**: chlorine **SARA 311/312 MSDS distribution - chemical inventory - hazard identification**: chlorine: Fire hazard, Sudden release of pressure, Immediate (acute) health hazard **Clean Water Act (CWA) 307**: No products were found. **Clean Water Act (CWA) 311**: chlorine **Clean Air Act (CAA) 112 accidental release prevention**: chlorine **Clean Air Act (CAA) 112 regulated flammable substances**: No products were found. **Clean Air Act (CAA) 112 regulated toxic substances**: chlorine

SARA 313

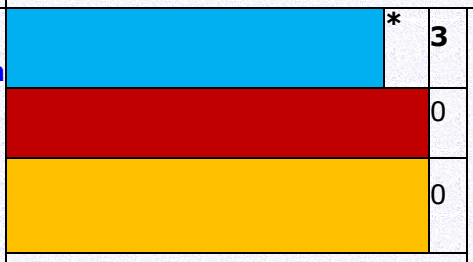
	Product name	CAS number	Concentration
Form R - Reporting requirements	Chlorine	7782-50-5	100
Supplier notification	Chlorine	7782-50-5	100

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations	**Connecticut Carcinogen Reporting:** This material is not listed. **Connecticut Hazardous Material Survey:** This material is not listed. **Florida substances:** This material is not listed. **Illinois Chemical Safety Act:** This material is not listed. **Illinois Toxic Substances Disclosure to Employee Act:** This material is not listed. **Louisiana Reporting:** This material is not listed. **Louisiana Spill:** This material is not listed. **Massachusetts Spill:** This material is not listed. **Massachusetts Substances:** This material is listed. **Michigan Critical Material:** This material is not listed. **Minnesota Hazardous Substances:** This material is not listed. **New Jersey Hazardous Substances:** This material is listed. **New Jersey Spill:** This material is not listed. **New Jersey Toxic Catastrophe Prevention Act:** This material is listed. **New York Acutely Hazardous Substances:** This material is listed. **New York Toxic Chemical Release Reporting:** This material is not listed. **Pennsylvania RTK Hazardous Substances:** This material is listed. **Rhode Island Hazardous Substances:** This material is not listed.
Canada	
WHMIS (Canada)	Class A: Compressed gas. Class D-1A: Material causing immediate and serious toxic effects (Very toxic). Class E: Corrosive material **CEPA Toxic substances:** This material is not listed. **Canadian ARET:** This material is not listed. **Canadian NPRI:** This material is listed. **Alberta Designated Substances:** This material is not listed. **Ontario Designated Substances:** This material is not listed. **Quebec Designated Substances:** This material is not listed.

Section 16. Other information

United States

Label requirements	OXIDIZER. CAUSES SEVERE RESPIRATORY TRACT, EYE AND SKIN BURNS. HARMFUL IF INHALED. MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE. CONTENTS UNDER PRESSURE.
Canada	
Label requirements	Class A: Compressed gas. Class D-1A: Material causing immediate and serious toxic effects (Very toxic). Class E: Corrosive material
Hazardous Material Information System (U.S.A.)	
National Fire Protection Association (U.S.A.)	

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Material Safety Data Sheet

Carbon Monoxide

Section 1. Chemical product and company identification

Product name	Carbon Monoxide
Supplier	AIRGAS INC., on behalf of its subsidiaries 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
Product use	Synthetic/Analytical chemistry.
Synonym	Carbon oxide (CO); CO; Exhaust Gas; Flue gas; Carbonic oxide; Carbon oxide; Carbone; Carbonio; Kohlenmonoxid; Kohlenoxyd; Koolmonoxyde; NA 9202; Oxyde de carbone; UN 1016; Wegla tlenek; Flue gasnide; Carbon monooxide
MSDS #	001014
Date of Preparation/Revision	**12/3/2012.**
In case of emergency	**:** 1-866-734-3438
Section 2. Hazards identification	
Physical state	Gas. [[COLORLESS GAS, MAY BE A LIQUID AT LOW TEMPERATURE OR HIGH PRESSURE.]]
Emergency overview	**:** WARNING! FLAMMABLE GAS. MAY CAUSE FLASH FIRE. MAY BE FATAL IF INHALED. MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CONTENTS UNDER PRESSURE. Keep away from heat, sparks and flame. Do not puncture or incinerate container. Avoid breathing gas. May cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container closed. Contact with rapidly expanding gases can cause frostbite.

Target organs	May cause damage to the following organs: blood, lungs, the nervous system, heart, cardiovascular system, central nervous system (CNS).
Routes of entry	**:** Inhalation
Potential acute health effects	
Eyes	Contact with rapidly expanding gas may cause burns or frostbite.
Skin	Contact with rapidly expanding gas may cause burns or frostbite.
Inhalation	Toxic by inhalation.
Ingestion	Ingestion is not a normal route of exposure for gases
Potential chronic health effects	
Chronic effects	May cause target organ damage, based on animal data.
Target organs	May cause damage to the following organs: blood, lungs, the nervous system, heart, cardiovascular system, central nervous system (CNS).
Medical conditions aggravated by over-exposure	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

Section 3. Composition, Information on Ingredients

Name	CAS number	% Volume	Exposure limits
Carbon Monoxide	630-08-0	100	**ACGIH TLV (United States, 2/2010).** TWA: 29 mg/m³ 8 hour(s). TWA: 25 ppm 8 hour(s). **NIOSH REL (United States, 6/2009).** CEIL: 229 mg/m³ CEIL: 200 ppm TWA: 40 mg/m³ 10 hour(s). TWA: 35 ppm 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 55 mg/m³ 8 hour(s). TWA: 50 ppm 8 hour(s). **OSHA PEL 1989 (United States, 3/1989).** CEIL: 229 mg/m³ CEIL: 200 ppm TWA: 40 mg/m³ 8 hour(s). TWA: 35 ppm 8 hour(s).

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training.If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion : As this product is a gas, refer to the inhalation section.

Section 5. Fire-fighting measures

Flammability of the product: Flammable.

Auto-ignition temperature : 605°C (1121°F)

Flammable limits : Lower: 12.5% Upper: 74.2%

Products of combustion : Decomposition products may include the following materials carbon dioxide carbon monoxide

Fire hazards in the presence of various substances Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and oxidizing materials.

Fire-fighting media and instructions : In case of fire, use water spray (fog), foam or dry chemical.

In case of fire, allow gas to burn if flow cannot be shut off immediately. Apply water from a safe distance to cool container and protect surrounding area. If involved in fire, shut off flow immediately if it can be done without risk.

Contains gas under pressure. Flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Shut off gas supply if this can be done safely. Isolate area until gas has dispersed.
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up	Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Handling	Use only with adequate ventilation. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. High pressure gas. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Keep container closed. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
Storage	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Segregate from oxidizing materials. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperature should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Personal protection **Eyes**	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. The applicable standards are (US) 29 CFR 1910.134 and (Canada) Z94.4-93

Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Personal protection in case of a large spill	Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Full chemical-resistant suit and self-contained breathing apparatus should be worn only by trained and authorized persons.

Product name

carbon monoxide

ACGIH TLV (United States, 2/2010).

TWA: 29 mg/m³ 8 hour(s).

TWA: 25 ppm 8 hour(s).

NIOSH REL (United States, 6/2009).

CEIL: 229 mg/m³

CEIL: 200 ppm

TWA: 40 mg/m³ 10 hour(s).

TWA: 35 ppm 10 hour(s).

OSHA PEL (United States, 6/2010).

TWA: 55 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

OSHA PEL 1989 (United States, 3/1989).

CEIL: 229 mg/m³

CEIL: 200 ppm

TWA: 40 mg/m³ 8 hour(s).

TWA: 35 ppm 8 hour(s).

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Molecular weight	28.01 g/mole
Molecular formula	C-O
Boiling/condensation point	-191°C (-311.8°F)
Melting/freezing point	-205°C (-337°F)
Critical temperature	-140.1°C (-220.2°F)
Vapor density	0.97 (Air = 1)
Specific Volume (ft^3/lb)	13.8889
Gas Density (lb/ft^3)	0.072

Section 10. Stability and reactivity

Stability and reactivity	The product is stable.
Incompatibility with various substances	Extremely reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure
carbon monoxide	TDLo Intraperitoneal	Rat	35 mL/kg	-
	LC50 Inhalation Vapor	Rat	13500 mg/m3	15 minutes
	LC50 Inhalation Vapor	Rat	1900 mg/m3	4 hours
	LC50 Inhalation Gas.	Rat	6600 ppm	30 minutes
	LC50 Inhalation Gas.	Rat	3760 ppm	1 hours
	LC50 Inhalation Gas.	Mouse	2444 ppm	4 hours

	LC50 Inhalation Gas.	Rat	1807 ppm	4 hours
IDLH	1200 ppm			
Chronic effects on humans	**TERATOGENIC EFFECTS**: Classified 1 by European Union. May cause damage to the following organs: blood, lungs, the nervous system, heart, cardiovascular system, central nervous system (CNS).			
Other toxic effects on humans	No specific information is available in our database regarding the other toxic effects of this material to humans.			
Specific effects				
Carcinogenic effects	No known significant effects or critical hazards.			
Mutagenic effects	No known significant effects or critical hazards.			
Reproduction toxicity	No known significant effects or critical hazards.			

Section 12. Ecological information

Aquatic ecotoxicity	
Not available.	
Products of degradation	**:** Products of degradation: carbon oxides (CO, CO2).
Environmental fate	**:** Not available.
Environmental hazards	**:** No known significant effects or critical hazards.
Toxicity to the environment	**:** Not available.

Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation.Return cylinders with residual product to Airgas, Inc.Do not dispose of locally.

Section 14. Transport information

Regulatory information	**UN number**	**Proper shipping name**	**Class**	**Packing group**	**Label**	**Additional information**
DOT Classification	UN1016	CARBON MONOXIDE, COMPRESSED	2.3	Not applicable (gas).	 	Inhalation hazard zone D **Limited quantity** Yes. **Packaging Instruction** **Passenger aircraft** Quantity limitation: Forbidden

						Cargo aircraft Quantity limitation: Forbidden **Special provision** **4**
TDG Classification	UN1016	CARBON MONOXIDE, COMPRESSED	2.3	Not applicable (gas).	 	**Explosive limit and Limited quantity Index** 0 **ERAP Index** 500 **Passenger carrying ship Index** Forbidden **Passenger carrying Road or Rail Index** Forbidden
Mexico Classification	UN1016	CARBON MONOXIDE, COMPRESSED	2.3	Not applicable (gas).	 	-

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Section 15. Regulatory information

United States	
U.S. Federal regulations	**TSCA 8(a) IUR**: Not determined **United States inventory (TSCA 8b)**: This material is listed or exempted. **SARA 302/304/311/312 extremely hazardous substances**: No products were found. **SARA 302/304 emergency planning and notification**: No products were found. **SARA 302/304/311/312 hazardous chemicals**: carbon monoxide **SARA 311/312 MSDS distribution - chemical inventory - hazard identification**: carbon monoxide: Fire hazard, Sudden release of pressure, Immediate (acute) health hazard, Delayed (chronic) health hazard
State regulations	**: Connecticut Carcinogen Reporting**: This material is not listed. **Connecticut Hazardous Material Survey**: This material is not listed. **Florida substances**: This material is not listed. **Illinois Chemical Safety Act**: This material is not listed. **Illinois Toxic Substances Disclosure to Employee Act**: This material is not listed. **Louisiana Reporting**: This material is not listed. **Louisiana Spill**: This material is not listed. **Massachusetts Spill**: This material is not listed. **Massachusetts Substances**: This material is listed. **Michigan Critical Material**: This material is not listed. **Minnesota Hazardous Substances**: This material is not listed. **New Jersey Hazardous Substances**: This material is listed. **New Jersey Spill**: This material is not listed. **New Jersey Toxic Catastrophe Prevention Act**: This material is listed. **New York Acutely Hazardous Substances**: This material is not listed. **New York Toxic Chemical Release Reporting**: This material is not listed. **Pennsylvania RTK Hazardous Substances**: This material is listed. **Rhode Island Hazardous Substances**: This material is not listed.

California Prop. 65	**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.			
Ingredient name	**Cancer**	**Reproductive**	**No significant risk level**	**Maximum acceptable dosage level**
Carbon Monoxide	No.	Yes.	No.	No.

Canada

WHMIS (Canada) **:** Class A: Compressed gas.

Class B-1: Flammable gas.

Class D-1A: Material causing immediate and serious toxic effects (Very toxic).

Class D-2A: Material causing other toxic effects (Very toxic).

CEPA Toxic substances: This material is not listed.

Canadian ARET: This material is not listed.

Canadian NPRI: This material is listed.

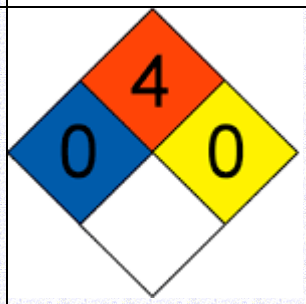
Alberta Designated Substances: This material is not listed.

Ontario Designated Substances: This material is not listed.

Quebec Designated Substances: This material is not listed.

Section 16. Other information

United States

Label requirements	**:** FLAMMABLE GAS. MAY CAUSE FLASH FIRE. MAY BE FATAL IF INHALED. MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CONTENTS UNDER PRESSURE.
Canada	
Label requirements	Class A: Compressed gas. Class B-1: Flammable gas. Class D-1A: Material causing immediate and serious toxic effects (Very toxic). Class D-2A: Material causing other toxic effects (Very toxic).
Hazardous Material Information System (U.S.A.)	**Health** * 2 **Flammability** 4 **Physical hazards** 0
National Fire Protection Association (U.S.A.)	

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Material Safety Data Sheet

Hydrogen Sulfide

Section 1. Chemical product and company identification

Product name	Hydrogen Sulfide
Supplier	AIRGAS INC., on behalf of its subsidiaries 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
Product use	Synthetic/Analytical chemistry.
Synonym	Dihydrogen monosulfide; Dihydrogen sulfide; Hydrosulfuric acid; Stink damp; Sulfur hydride; Sulfureted hydrogen; H2S; Sulfuretted hydrogen; Hydrogen-sulphide-; Hydrogen sulfide (H2S); Acide sulfhydrique; Hydrogene sulfure; Idrogeno solforato; Rcra waste number U135; Schwefelwasserstoff; Siarkowodor; UN 1053; Zwavelwaterstof; Hepatic gas; Hepatic acid; Hydrogen monosulfide; Sewer gas; Sour gas; Sulfur hydroxide
MSDS #	001029
Date of	**5/7/2013.**
Preparation/Revision In case of emergency	1-866-734-3438

Section 2. Hazards identification

Physical state : Gas. [COLORLESS LIQUEFIED COMPRESSED GAS WITH A ROTTEN EGG ODOR, BUT ODORLESS AT POISONOUS CONCENTRATIONS. [NOTE: SENSE OF SMELL BECOMES RAPIDLY FATIGUED AND CAN NOT BE RELIED UPON TO WARN OF THE CONTINUOUS PRESENCE OF H2S.]]

Emergency overview: DANGER!

FLAMMABLE GAS. MAY CAUSE FLASH FIRE. MAY BE FATAL IF INHALED. MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CONTENTS UNDER PRESSURE.

Keep away from heat, sparks and flame. Do not puncture or incinerate container. Do not breathe gas. Avoid contact with eyes, skin and clothing. May cause target organ damage, based on animal data. Use only with adequate ventilation. Wash thoroughly after handling. Keep container closed.

Contact with rapidly expanding gases can cause frostbite.

Target organs : May cause damage to the following organs: lungs, upper respiratory tract, eyes, central nervous system (CNS).

Routes of entry : Inhalation Dermal Eyes

Potential acute health effects

Eyes : Moderately irritating to eyes. Contact with rapidly expanding gas may cause burns or frostbite.

Skin : Moderately irritating to the skin. Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : Very toxic by inhalation.

Ingestion : Ingestion is not a normal route of exposure for gases

Potential chronic health effects

Chronic effects : Can cause target organ damage.

Target organs : May cause damage to the following organs: lungs, upper respiratory tract, eyes, central nervous system (CNS).

Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

Section 3. Composition, Information on Ingredients

Name	CAS number	% Volume	Exposure limits
Hydrogen Sulfide	7783-06-4	100	**ACGIH TLV (United States, 3/2012)** STEL: 5 ppm 15 minute(s). TWA: 1 ppm 8 hour(s). **NIOSH REL (United States, 1/2013).** CEIL: 15 mg/m³ 10 minute(s). CEIL: 10 ppm 10 minute(s). **OSHA PEL 1989 (United States, 3/1989).** STEL: 21 mg/m³ 15 minute(s). STEL: 15 ppm 15 minute(s). TWA: 14 mg/m³ 8 hour(s). TWA: 10 ppm 8 hour(s). **OSHA PEL Z2 (United States, 11/2006).** AMP: 50 ppm 10 minute(s). CEIL: 20 ppm

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training.If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Inhalation : Call medical doctor or poison control center immediately. Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion : As this product is a gas, refer to the inhalation section.

Section 5. Fire-fighting measures

Flammability of the product : Flammable.

Auto-ignition temperature : 259.85°C (499.7°F)

Flammable limits : Lower: 4% Upper: 44%

Products of combustion : Decomposition products may include the following materials:

sulfur oxides

Fire-fighting media and Instructions : In case of fire, use water spray (fog), foam or dry chemical.

In case of fire, allow gas to burn if flow cannot be shut off immediately. Apply water from a safe distance to cool container and protect surrounding area. If involved in fire, shut off flow immediately if it can be done without risk.

Contains gas under pressure. Flammable gas. In a fire or if heated, a pressure increase will occur, and the container may burst, with the risk of a subsequent explosion.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

Section 6. Accidental release measures

Personal precautions : Immediately contact emergency personnel. Keep unnecessary personnel away.

Use suitable protective equipment (section 8). Shut off gas supply if this can be done safely. Isolate area until gas has dispersed.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drain tools and explosion-proof equipment. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Handling	Use only with adequate ventilation. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling. High pressure gas. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Keep container closed. Avoid contact with skin and clothing. Avoid contact with eyes. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
Storage	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Segregate from oxidizing materials. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Personal protection **Eyes**	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. The applicable standards are (US) 29 CFR 1910.134 and (Canada) Z94.4-93
Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Personal protection in case **of a large spill**	Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Full chemical-resistant suit and self-contained breathing apparatus should be worn only by trained and authorized persons.

Product name	
hydrogen sulphide	**ACGIH TLV (United States, 3/2012).** STEL: 5 ppm 15 minute(s). TWA: 1 ppm 8 hour(s). **NIOSH REL (United States, 1/2013).** CEIL: 15 mg/m³ 10 minute(s). CEIL: 10 ppm 10 minute(s). **OSHA PEL 1989 (United States, 3/1989).** STEL: 21 mg/m³ 15 minute(s). STEL: 15 ppm 15 minute(s). TWA: 14 mg/m³ 8 hour(s). TWA: 10 ppm 8 hour(s). **OSHA PEL Z2 (United States, 11/2006).** AMP: 50 ppm 10 minute(s). CEIL: 20 ppm

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Molecular weight	34.08 g/mole
Molecular formula	H2-S
Boiling/condensation point	-60°C (-76°F)
Melting/freezing point	-82.8°C (-117°F)
Critical temperature	100.5°C (212.9°F)
Vapor pressure	252 (psig)
Vapor density	1.19 (Air = 1)
Specific Volume (ft^3/lb)	11.236
Gas Density (lb/ft^3)	0.089

Section 10. Stability and reactivity

Stability and reactivity	The product is stable.
Incompatibility with various substances	Extremely reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure
hydrogen sulphide	LD50 Intraperitoneal	Rat	2300 ug/kg	-
	LD50 Intravenous	Rat	270 ug/kg	-
	LC50 Inhalation	Rat	820 mg/m3	3 hours
	Vapor			
	LC50 Inhalation	Rat	700 mg/m3	4 hours
	Vapor			
	LC50 Inhalation	Rat	470 mg/m3	6 hours
	Vapor			
	LC50 Inhalation	Rat	712 ppm	1 hours
	Gas.			
	LC50 Inhalation	Mouse	634 ppm	1 hours
	Gas.			
	LC50 Inhalation	Rat	444 ppm	4 hours
	Gas.			

IDLH	100 ppm
Chronic effects on humans	May cause damage to the following organs: lungs, upper respiratory tract, eyes, central nervous system (CNS).
Other toxic effects on humans	No specific information is available in our database regarding the other toxic effects of this material to humans.

Specific effects

Carcinogenic effects	No known significant effects or critical hazards.
Mutagenic effects	No known significant effects or critical hazards.

Reproduction toxicity	No known significant effects or critical hazards.

Section 12. Ecological information

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
hydrogen sulphide	-	Acute EC50 770 ug/L Fresh water	Crustaceans - Amphipod - Crangonyx richmondensis ssp. lauren - 10 mm	48 hours
	-	Acute EC50 540 ug/L Fresh water	Crustaceans - Amphipod - Crangonyx richmondensis ssp. lauren - 10 mm	48 hours
	-	Acute EC50 95 ug/L Fresh water	Crustaceans - Scud - Gammarus pseudolimnaeus -11 mm	2 days
	-	Acute EC50 71 ug/L Fresh water	Crustaceans - Scud - Gammarus pseudolimnaeus -11 mm	2 days
	-	Acute EC50 62 ug/L Fresh water	Crustaceans - Scud - Gammarus pseudolimnaeus -11 mm	2 days

	-	Acute LC50 4 ug/L Fresh water	Fish - Lake whitefish - Coregonus clupeaformis - Yolk-sac fry	96 hours
	-	Acute LC50 3.2 ug/L Fresh water	Fish - Asian redtail catfish - Hemibagrus nemurus	96 hours
	-	Acute LC50 3 ug/L Fresh water	Fish - Lake whitefish - Coregonus clupeaformis - Yolk-sac fry	96 hours
	-	Acute LC50 2 ug/L Fresh water	Fish - Lake whitefish - Coregonus clupeaformis - Yolk-sac fry	96 hours
	-	Acute LC50 <2 ug/L Fresh water	Fish - Yellow perch - Perca flavescens - Yolk-sac fry	96 hours
Products of degradation				
Environmental fate	Not available.			
Environmental hazards	No known significant effects or critical hazards.			
Toxicity to the environment	Not available.			

Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation.Return cylinders with residual product to Airgas, Inc.Do not dispose of locally.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1053	HYDROGEN SULFIDE	2.3	Not applicable (gas).	 	**Reportable quantity** 100 lbs. (45.4 kg) **Limited quantity** Yes. **Packaging instruction** Passenger aircraft Quantity limitation: Forbidden. **Cargo aircraft** Quantity limitation: Forbidden: **Special provision** 2,B9,B14

TDG Classification	UN1053	HYDROGEN SULFIDE	2.3	Not applicable (gas).	 	**Explosive Limit and Limited Quantity Index** 0 **ERAP Index** 0 **Passenger Carrying Ship Index** Forbidden **Passenger Carrying Road or Rail Index** Forbidden
Mexico Classification	UN1053	HYDROGEN SULFIDE	2.3	Not applicable (gas).	 	-

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Section 15. Regulatory information

United States

U.S. Federal regulations : United States inventory (TSCA 8b): This material is listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: hydrogen sulphide

SARA 302/304 emergency planning and notification: hydrogen sulphide

SARA 302/304/311/312 hazardous chemicals: hydrogen sulphide

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: hydrogen sulphide: Fire hazard, Sudden release of pressure, Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: hydrogen sulphide

SARA 313			
	Product name	**CAS number**	**Concentration**
Form R - Reporting requirements	Hydrogen Sulfide	7783-06-4	100
Supplier notification	Hydrogen Sulfide	7783-06-4	100

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations	**Connecticut Carcinogen Reporting:** This material is not listed. **Connecticut Hazardous Material Survey:** This material is not listed. **Florida substances:** This material is not listed. **Illinois Chemical Safety Act:** This material is not listed. **Illinois Toxic Substances Disclosure to Employee Act:** This material is not listed. **Louisiana Reporting:** This material is not listed. **Louisiana Spill:** This material is not listed. **Massachusetts Spill:** This material is not listed. **Massachusetts Substances:** This material is listed. **Michigan Critical Material:** This material is not listed. **Minnesota Hazardous Substances:** This material is not listed. **New Jersey Hazardous Substances:** This material is listed. **New Jersey Spill:** This material is not listed. **New Jersey Toxic Catastrophe Prevention Act:** This material is listed. **New York Acutely Hazardous Substances:** This material is listed. **New York Toxic Chemical Release Reporting:** This material is not listed. **Pennsylvania RTK Hazardous Substances:** This material is listed. **Rhode Island Hazardous Substances:** This material is not listed.
Canada	
WHMIS (Canada)	Class A: Compressed gas. Class B-1: Flammable gas. Class D-1A: Material causing immediate and serious toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

CEPA Toxic substances: This material is not listed.

Canadian ARET: This material is not listed.

Canadian NPRI: This material is listed.

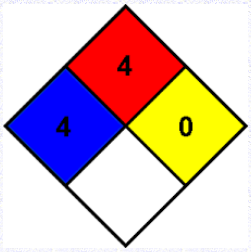
Alberta Designated Substances: This material is not listed.

Ontario Designated Substances: This material is not listed.

Quebec Designated Substances: This material is not listed.

Section 16. Other information

United States

Label requirements	FLAMMABLE GAS. MAY CAUSE FLASH FIRE. MAY BE FATAL IF INHALED. MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CONTENTS UNDER PRESSURE.
Canada	
Label requirements	Class A: Compressed gas. Class B-1: Flammable gas. Class D-1A: Material causing immediate and serious toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).
Hazardous Material Information System (U.S.A.)	**Health** * 4 **Flammability** 4 **Physical hazards** 0
National Fire Protection Association (U.S.A.)	

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PHOSGENE

1. Chemical Product and Company Identification

BOC Gases,
Division of
The BOC Group, Inc.
575 Mountain Avenue
Murray Hill, NJ 07974

TELEPHONE NUMBER: (908) 464-8100

BOC Gases
Division of
BOC Canada Limited
5975 Falbourne Street, Unit 2
Mississauga, Ontario L5R 3W6

TELEPHONE NUMBER: (905) 501-1700

24-HOUR EMERGENCY TELEPHONE NUMBER:
CHEMTREC (800) 424-9300

24-HOUR EMERGENCY TELEPHONE NUMBER:
(905) 501-0802

EMERGENCY RESPONSE PLAN NO: 20101

PRODUCT NAME: PHOSGENE

CHEMICAL NAME: Phosgene

COMMON NAMES/SYNONYMS: Carbon Oxychloride; Carbonyl Chloride; Carbonyl Dichloride; Diphosgene

TDG (Canada) CLASSIFICATION: 2.3 (8)

WHMIS CLASSIFICATION: A, E, F, D1A

PREPARED BY: Loss Control (908)464-8100/(905)501-1700

PREPARATION DATE: 6/1/95

REVIEW DATES: 6/7/96

2. Composition, Information on Ingredients

INGREDIENT	% VOLUME	PEL-OSHA[1]	TLV-ACGIH[2]	LD_{50} or LC_{50} Route/Species
Phosgene FORMULA: CCl_20 CAS: 75-44-5 RTECS #: SY5600000	100.0	0.1 ppm TWA	0.1 ppm TWA	LC_{50} 800 ppm (human)

As stated in 29 CFR 1910, Subpart Z (revised July 1, 1993)

As stated in the ACGIH 1994-95 Threshold Limit Values for Chemical Substances and Physical Agent

3. Hazards Identification+

EMERGENCY OVERVIEW

Corrosive to exposed tissues. Inhalation of vapors may result in pulmonary edema and chemical pneumonitis. Nonflammable. Reacts violently and decomposes to toxic compounds, including chlorine, on contact with moisture.

ROUTE OF ENTRY:				
Skin Contact	Skin Absorption	Eye Contact	Inhalation	Ingestion
Yes	No	Yes	Yes	No

HEALTH EFFECTS:		
Exposure Limits	Irritant	Sensitization
Yes	Yes	No
Teratogen	Reproductive Hazard	Mutagen
No	No	No
Synergistic Effects None Reported		
Carcinogenicity: -- NTP: No ARC: No OSHA: No		
EYE EFFECTS:		
None known.		
SKIN EFFECTS:		
None known.		
INGESTION EFFECTS:		
None known.		

INHALATION EFFECTS:

Immediate symptoms from inhalation are choking, coughing, tightness of the chest, catching of the breath, lacrimation, difficulty in and painful breathing and eventual cyanosis. Serious symptoms are pulmonary edema and asphyxiation which may not be manifested for several hours after overexposure. Long lasting (several months) symptoms may be coughing, bloody sputum and general malaise.

NFPA HAZARD CODES	HMIS HAZARD CODES	RATINGS SYSTEM
Health:4	Health:4	0 = No Hazard
Flammability: 0	Flammability: 0	1 = Slight Hazard
Reactivity:1	Reactivity:1	2 = Moderate Hazard
		3= Serious Hazard
		4= Severe Hazard

4. First Aid Measures

EYES:

None required.

SKIN:

None required.

INGESTION:

None required.

INHALATION:

Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Unconscious persons should be moved to an uncontaminated area, and given artificial resuscitation and supplemental oxygen. Keep the victim warm and quiet. Assure that mucous does not obstruct the airway by positional drainage. Delayed pulmonary edema may occur. Keep patient under medical observation for at least 48 hours. Treatment should be symptomatic and supportive.

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO PHOSGENE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS.

5. Fire Fighting Measures

Conditions of Flammability: Nonflammable			
Flash point:	Method:		Autoignition
None	Not Applicable		Temperature: None
LEL(%): None		UEL(%): None	
Hazardous combustion products: None			
Sensitivity to mechanical shock: None			
Sensitivity to static discharge: None			

FIRE AND EXPLOSION HAZARDS:

Nonflammable.

FIRE FIGHTING INSTRUCTIONS:

NONE. Material is not flammable. See spill and leaks information for protective equipment when fighting a spill.

6. Accidental Release Measures

Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with inert gas prior to attempting repairs. If leak is in container or container valve, contact the appropriate emergency telephone number listed in Section 1 or call your closest BOC location.

7. Handling and Storage

Moist phosgene is corrosive to most metals. Hastelloy A or B as well as tantalum, platinum and gold show good corrosive resistance to moist phosgene.

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130°F (54°C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time.

Use only in well-ventilated areas. Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to lower pressure (less than 75 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.

For additional storage and handling recommendations, consult Compressed Gas Association's Pamphlet P-1.

Never carry a compressed gas cylinder or a container of a gas in cryogenic liquid form in an enclosed space such as a car trunk, van or station wagon. A leak can result in a fire, explosion, asphyxiation or a toxic exposure.

8. Exposure Controls, Personal Protection

EXPOSURE LIMITS[1]:

INGREDIENT	**%VOLUME**	**PEL-OSHA[2]**	**TLV-ACGIH[3]**	**LD_{50} or LC_{50} Route/Species**
Phosgene FORMULA: CCl_20 CAS: 75-44-5 RTECS #: SY5600000	100.0	0.1 ppm TWA	0.1 ppm TWA	LC_{50} 800 ppm (human)

[1] Refer to individual state of provincial regulations, as applicable, for limits which may be more stringent than those listed here.

[2] As stated in 29 CFR 1910, Subpart Z (revised July 1, 1993)

[3] As stated in the ACGIH 1994-1995 Threshold Limit Values for Chemical Substances and Physical Agents.

IDLH: 2 ppm

ENGINEERING CONTROLS:

Use a laboratory hood with forced ventilation for handling small quantities. Use local exhaust to prevent accumulation above the exposure limits.

EYE/FACE PROTECTION:

Gas tight chemical goggles or full-face piece respirator.

SKIN PROTECTION:

Rubber or Teflon ®protective gloves.

RESPIRATORY PROTECTION:

Positive pressure air line with full-face mask and escape bottle or self-contained breathing apparatus should be available for emergency use and routine use when exposures are above set limits.

OTHER/GENERAL PROTECTION:

Safety shoes, safety shower, eyewash "fountain".

9. Physical and Chemical Properties

PARAMETER	VALUE	UNITS
Physical state (gas, liquid, solid)	Gas	
Vapor pressure	22.6	psia
Vapor density (Air = 1)	3.41	
Evaporation point	Not Available	
Boiling point	45.6	F
	7.55	C
Freezing point	-198	F
	-127	C
Ph	Not Available	
Specific gravity	Not Available	
Oil/water partition coefficient	Not Available	
Solubility (H20)	Decomposes	
Odor threshold	Not Available	
Odor and appearance	Colorless gas with sweet odor in low concentrations, becoming suffocating in high concentrations	

10. Stability and Reactivity

STABILITY:

Stable at temperatures below 572°F (300°C).

INCOMPATIBLE MATERIALS:

May react violently with water, ammonia, primary amines.

HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrochloric acid and carbon dioxide. Carbon monoxide, chlorine.

HAZARDOUS POLYMERIZATION:

Will not occur.

11. Toxicological Information

No chronic effects data unrelated to phosgene's corrosivity given in the Registry of Toxic Effects of Chemical Substances (RTECS) or Sax, Dangerous Properties of Industrial Materials, 7th ed.

12. Ecological Information

No data given.

13. Disposal Considerations

Do not attempt to dispose of residual waste or unused quantities. Return in the shipping container PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE to BOC Gases or authorized distributor for proper disposal.

14. Transport Information

PARAMETER	United States DOT	Canada TDG
PROPER SHIPPING NAME:	Phosgene	Phosgene
HAZARD CLASS:	2.3	2.3 (8)
IDENTIFICATION NUMBER:	UN 1076	UN 1076
SHIPPING LABEL:	POISON GAS, CORROSIVE	POISON GAS, CORROSIVE

Additional Marking Requirement: "Inhalation Hazard"

If net weight of product $\geq$ 10 pounds, the container must be also marked with the letters "RQ".

Additional Shipping Paper Description Requirement: "Poison Inhalation Hazard, Zone A"

If net weight of product $\geq$ 10 pounds, the shipping papers must be also marked with the letters "RQ".

15. Regulatory Information

Phosgene is listed under the accident prevention provisions of section 112(r) of the Clean Air Act (CAA) with a threshold quantity Q) of 500 pounds

SARA TITLE III NOTIFICATIONS AND INFORMATION

Phosgene is listed as an extremely hazardous substance (EHS) subject to state and local reporting under Section 304 of SARA Title III (EPCRA).

The presence of phosgene in quantities in excess of the threshold planning quantity (TPQ) of 10 pounds requires certain emergency planning activities to be conducted.

Releases of phosgene in quantities equal to or greater than the reportable quantity (RQ) of 10 pounds are subject to reporting to the National Response Center under CERCLA, Section 304 SARA Title III.

SARA TITLE III - HAZARD CLASSES:

Acute Health Hazard

Chronic Health Hazard

Sudden Release of Pressure Hazard

Reactivity Hazard

Fire Hazard

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

CAS NUMBER	INGREDIENT NAME	PERCENT BY VOLUME
75-44-5	PHOSGENE	~ 100.0

This information must be included on all MSDSs that are copied and distributed for this material.

16. Other Information

Compressed gas cylinders shall not be refilled without the express written permission of the owner. Shipment of a compressed gas cylinder which has not been filled by the owner or with his/her (written) consent is a violation of transportation regulations.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Aqueous waste

1. Identification of the substance / preparation and company undertaking

Name: Aqueous waste

Information: Toxic waste

Company Name: **Bharuch Enviro Infrastructure Limited**

Address: Plot No 9701-17, Industrial Estate,

GIDC, Ankleshwar

Gujarat, India

Phone No. 02646-253135, 225228

2. Composition / Information on Ingredients

Chemical Name: Aqueous waste

Waste Code: 1

Hazardous Ingredients / Components:--

CAS No.---NA

3. HAZARD IDENTIFICATION:

Potential Health effects: This section includes possible adverse effects, which could occur if this material is not handed in the recommended manner.

Eye	: Irritant to eye.
Ingestion	: Harmful if swallowed.
Skin	: Irritant to skin.
Inhalation	: Irritant to Respiratory System
Aquatic organism	: Toxic to aquatic organisms, may cause long- term adverse effects in the aquatic environment.
Fire	: Nonflammable material

4. FIRST AID MEASURES:

Eye:	Rinse immediately with plenty of water. Hold eye open and taking care to rinse under eyelids as well. Flush eye(s) with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 15 minutes, then continue rinsing eye. Get medical attention immediately.
Skin:	In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Remove all contaminated clothing and shoes while washing. Clean contaminated clothing and shoes before re-use. Launder contaminated clothing before re-use or discard if they cannot be thoroughly cleaned. If skin irritation develops, get medical attention.
Ingestion:	If vomiting occurs, keep head low so that stomach content doesn't get into lungs. Get medical attention immediately! Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Do not leave victim unattended. Never give anything by mouth to an unconscious person. Get medical attention. Call emergency doctor immediately.
Inhalation:	Remove victim from immediate source of exposure and move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Assure that the victim is breathing, if breathing is difficult, properly trained personnel may assist affected person by administering oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention

5. FIRE FIGHTING MEASURES:

Flash Point : No flash

Special Fire fighting procedures: Material is not flammable. In case of fire, Cool containers exposed to flame with water until the fire is out. Keep run-off water out of sewers and water sources. Dyke for water control.

Suitable Extinguishing Media: Dry chemical, foam, sand, water fog (or fine water spray).

Fire Fighting Instructions	When fighting fires involving significant quantities of this waste, wear safety boots, non-flammable overalls, gloves, hat goggles and self contained breathing apparatus. All skin areas should be covered. Ensure that no spillage enters drains or water courses.

6. ACCIDENTAL RELEASE MEASURES:

General and Disposal	Evacuation Procedures and Safety: Wear appropriate gear for the situation. Cleanup and Disposal of Spill: Wear necessary protective equipment. Absorb in vermiculite/bentonite, dry sand or earth and place into containers. Pump any free liquid into an appropriate closed container. Collect and reclaim or dispose in sealed containers in licensed waste. Clean up residual material as appropriate. Decontaminate tools and equipment following cleanup. Collect washings for disposal.
Land Spill or Leaks	DO NOT touch or walk through spilled material. Wear a face shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and boots. Stop leak when safe to do so. Dyke area and prevent entry into waterways, and drains. Do not contaminate water sources or sewer. Runoff or release to sewer, waterway or ground is forbidden. If spilled on the ground, the affected area should be removed to a depth of one or two inches and placed in an appropriate container for disposal. Absorb with material such as sand, soil or sawdust. Collect spilled waste and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Dyke the area of large spills.
Emergency procedures:	Wear protective equipment to prevent skin and eyes being affected. Evacuate unprotected and unnecessary personnel from area of spill. If material is spilling from container, attempt to retain as much as possible in the original package. Prevent Spillage entering drain or watercourse. Inform Authorities if large amounts are involved.

7. HANDLING AND STORAGE:

Handling Procedures	Keep out of the reach of children. Harmful if swallowed, inhaled, or absorbed through skin, Cause eye and skin irritation. Avoid contact with eye, skin and clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Do not ingest. Avoid direct or prolonged contact with skin and eyes. Do not breathe vapors and mists. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed.
	Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Avoid inhalation of vapours.
Storing Procedures	Store in tightly closed original containers in a cool , dry, well-ventilated area out of direct sunlight when not in use. Reduce stacking height where local conditions can affect packaging strength. Store in an area that is away from ignition sources. Store in an area away from food, feedstuffs, fertilizers and seed. Keep in original container.
Work/Hygienic Procedures	Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:
	Do not store, use, and/or consume foods, beverages, tobacco wastes, or cosmetics in areas where this material is stored.
	Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
	Wash exposed skin promptly to remove accidental splashes of contact with this material.
	KEEP OUT OF REACH OF CHILDREN.
Storage :	Store in the original container in a dry, cool, ventilated, LOCKED area. DO NOT store in prolonged sunlight. DO NOT store with food, seed or animal feed stuff.

8. EXPOSURE CONTROL / PERSONAL PROTECTION :

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

Exposure guidelines Exposure values at the TWA (Time Weighted Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working days for a 5 day working week.

Engineering Controls	In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. Where engineering controls are indicated by use conditions of a potential for excessive exposure exists, the traditional exposure control techniques may be used to effectively minimize employee exposures. Provide the general and /or local exhaust ventilation to control airborne levels below the exposure guidelines.
Eye/Face Protection	Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments. Use chemical goggles. If exposure causes eye discomfort, use a full-face respirator.
Skin Protection	Skin contact should be minimized through use of gloves and suitable long sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance. Selection of specific items such as face shield, boots, full-body suit or apron will depend on the task. Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur.
Respiratory Protection	When respirators are required use an approved air purifying respiration equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. The following should be effective types of air-purifying respirators: organic vapor cartridge with a particulate pre-filter; air-purifying (half-mask/full-face) respirator with cartridge/ canister approved for use against dusts, mists and fumes, pesticides. Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face

positive pressure air supplied respirator equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit.

General Protection	These recommendations provide general guidance for handling this waste. Avoid skin and eye contact and inhalation of vapour. Wear overalls, chemical goggles and impervious gloves. Use adequate ventilation. Eye washing and shower facilities available. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these

.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	: Brown Blackish, semi transparent Liquid
Odor	: No significant Odour
pH	: 4.5 to 7.0
Flash Point	: No flash
Specific gravity	: 1.0 to 1.2 at 27°C

10. STABILITY AND REACTIVITY:

Chemical stability	: Normally stable. Stable under normal handling and storage conditions. React with oxidizing agents.
Conditions to avoid	: High temperatures; Open flame; Static electricity.
Material to avoid	: Strong Acids, Base and oxidizing substances.

Hazardous decomposition

waste : Fire creates ; Toxic gases/vapours/fumes of : Carbon monoxide (CO), Carbon dioxide (CO_2), Sulfure Oxides , Nitrogen Oxides

11. TOXICOLOGICAL INFORMATION:

Potential health effects : This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

Skin and eye contact : Skin: Brief contact is essentially non-irritating to skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Eye: Mild-irritating to eyes

Inhalation : May harmful If Handled without respiratory Protection

12. ECOLOGICAL INFORMATION:

Environmental data : Do not contaminate streams, rivers or waterways with this waste of the used containers.

Aquatic toxicity : The active ingredient is very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS :

The waste is toxic chemical : In case of leakage or Spillage collect the liquid by absorption. Use sand, Fly ash or other inert absorbing media. The collected waste to be incinerated at pollution control board approved facility.

14. TRANSPORT INFORMATION :

The waste to be transported in the approved vehicles. The driver should have necessary PPEs, Emergency contact No and Knowledge about the Material is transported.

15. REGULATORY INFORMATION

Poison Schedule	: HARMFUL DANGEROUS
Risk Phrases	: Harmful by inhalation and if swallowed. May cause sensitization by skin contact. Toxic to aquatic organisms, any cause long-term adverse effects in the aquatic environment.
Safety Phrases	: Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. When using do not eat or drink/smoke. Don't breathe gas/fumes/vapor/ spray. Avoid contact with skin and eyes. Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point. Wear suitable gloves. If you feel unwell, contact a doctor of Poison Information Centre immediately. If swallowed seek medical advice immediately Use only in well ventilated areas. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. OTHER INFORMATION :

The data given here is based on current knowledge and experience. The purpose of this Safety data Sheet is to describe the waste in terms of their safety requirements. The data does not signify any warranty with regard to the waste's properties. The information contained herein is based on the present state of our knowledge as is intended to describe our wastes from the point of view of safety requirements. Bharuch Enviro Infrastructure Limited makes no warranty expressed or implied in respect of the adequacy of this document for any particular purpose.

Material Safety Data Sheet

Organic Hazardous waste

1. Identification of the substance / preparation and company undertaking Name: Organic Hazardous waste

Information: High Calorific Toxic waste

Company Name: Bharuch Enviro Infrastructure Limited

Address: Plot No 9701-17, Industrial Estate, GIDC, Ankleshwar

Gujarat, India

Phone No. 02646-253135, 225228

2. Composition / Information on Ingredients Chemical Name: Organic Hazardous waste Waste Code: 1

Hazardous Ingredients / Components:-- CAS No.---

3. HAZARD IDENTIFICATION:

Potential Health effects: This section includes possible adverse effects, which could occur if this material is not handed in the recommended manner.

Eye: Irritant to eye.

Ingestion: Harmful if swallowed.

Skin: Irritant to skin.

Inhalation: Irritant to Respiratory System

Aquatic organism: Toxic to aquatic organisms, may cause long- term adverse effects in the aquatic environment.

Fire: Flammable material

4. FIRST AID MEASURES:

Eye: Rinse immediately with plenty of water. Hold eye open and taking care to rinse under eyelids as well. Flush

eye(s) with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 15 minutes, then continue rinsing eye. Get medical attention immediately.

Skin: In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Remove all contaminated clothing and shoes while washing. Clean contaminated clothing and shoes before re-use. Launder contaminated clothing before re-use or discard if they cannot be thoroughly cleaned. If skin irritation develops, get medical attention.

Ingestion: DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS

PERSON VOMIT OR DRINKFLUIDS! If vomiting occurs, keep head low so that stomach content doesn't get into lungs. Get medical attention immediately! Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Do not leave victim unattended. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention. Call emergency doctor immediately.

Inhalation: Remove victim from immediate source of exposure and

move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Assure that the victim is breathing, if breathing is difficult, properly trained personnel may assist affected person by administering oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention

5. FIRE FIGHTING MEASURES:

Flash Point : > 60' C

Special Fire fighting procedures: Avoid breathing fire vapors. Cool

containers exposed to flame with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

Suitable Extinguishing

Media Dry chemical, foam, sand, dolomite and /or water fog (or unavailable fine water spray).

Fire Fighting Instructions When fighting fires involving significant quantities of

this waste, wear safety boots, non-flammable overalls, gloves, hat goggles and self contained breathing apparatus. All skin areas should be covered. Ensure that no spillage enters drains or water courses.

6. ACCIDENTAL RELEASE MEASURES:

General and Disposal Evacuation Procedures and Safety: Wear appropriate gear for the situation.

Cleanup and Disposal of Spill: Wear necessary protective equipment. Absorb in vermiculite/bentonite, dry sand or earth and place into containers. Pump any free liquid into an appropriate closed container.

Collect and reclaim or dispose in sealed containers in licensed waste. Clean up residual material as appropriate. Decontaminate tools and equipment following cleanup. Collect washings for disposal.

Land Spill or Leaks DO NOT touch or walk through spilled material. Wear a face shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and boots. Stop leak when safe to do so. Dike area and prevent entry into waterways, and drains. Do not contaminate water sources or sewer. Runoff or release to sewer, waterway or ground is forbidden.

If spilled on the ground, the affected area should be removed to a depth of one or two inches and placed in an appropriate container for disposal.

Absorb with material such as sand, soil or sawdust. Collect spilled waste and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Dike the area of large spills. Do not use water to clean up.

Emergency procedures: Wear protective equipment to prevent skin and eyes

being affected. Evacuate unprotected and unnecessary personnel from area of spill. If material is spilling from container, attempt to retain as much as possible in the original package. Prevent Spillage entering drain or watercourse. Inform Authorities if large amounts are involved.

7. HANDLING AND STORAGE:

Handling Procedures Keep out of the reach of children. Harmful if swallowed, inhaled, or absorbed through skin, Cause eye and skin irritation. Avoid contact with eye, skin and clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Do not ingest. Avoid direct or prolonged contact with skin and eyes. Do not breathe vapors and mists. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed.

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Avoid inhalation of vapours.

Storing Procedures Store in tightly closed original containers in a cool , dry, well-ventilated area out of direct sunlight when not in use. Reduce stacking height where local conditions can affect packaging strength. Store in an area that is away from ignition sources. Store in an area away from food, feedstuffs, fertilizers and seed. Keep in original container.

Work/Hygienic

Procedures Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

Do not store, use, and/or consume foods, beverages, tobacco wastes, or cosmetics in areas where this material is stored.

Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

Wash exposed skin promptly to remove accidental splashes of contact with this material.

KEEP OUT OF REACH OF CHILDREN.

Storage : Store in the original container in a dry, cool, ventilated, LOCKED area. DO NOT store in prolonged sunlight. DO NOT store with food, seed or animal feed stuff.

8. EXPOSURE CONTROL / PERSONAL PROTECTION :

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

Exposure guidelines Exposure values at the TWA (Time Weighted

Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working days for a 5 day working week.

Engineering Controls In industrial situations, concentration values below the

TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. Where engineering controls are indicated by use conditions of a potential for excessive exposure exists, the traditional exposure control techniques may be used to effectively minimize employee exposures.

Provide the general and /or local exhaust ventilation to control airborne levels below the exposure guidelines.

Eye/Face Protection Eye and face protection requirements will vary

dependent upon work environment conditions and material handling practices. It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments. Use chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

Skin Protection Skin contact should be minimized through use of gloves and suitable long sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance. Selection of specific items such as face shield, boots, full-body suit or apron will depend on the task. Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur.

Respiratory Protection When respirators are required use an approved air

purifying respiration equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. The following should be effective types of air-purifying respirators: organic vapor cartridge with a particulate pre-filter; air-purifying (half- mask/full-face) respirator with cartridge/ canister approved for use against dusts, mists and fumes, pesticides.

Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air supplied respirator equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit.

General Protection These recommendations provide general guidance for

handling this waste. Avoid skin and eye contact and inhalation of vapour. Wear overalls, chemical googles and impervious gloves. Use adequate ventilation. Eye washing and shower facilities available. Because specific work environments and material handling practices vary, safety procedures should be

developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Brown Blackish Liquid

Odor : No significant Odour

pH : >5

Flash Point : > 60 ° C.

Specific gravity : 0.84 ± 0.01 at 27°C

10. STABILITY AND REACTIVITY:

Chemical stability : Normally stable. Stable under normal handling and

storage conditions. React with oxidizing agents.

Conditions to avoid :High temperatures; Open flame; Spark, Static

electricity.

Material to avoid : Strong Acids, Base and oxidizing substances.

Hazardous decomposition

waste : Fire creates ; Toxic gases/vapours/fumes of : Carbon monoxide (CO), Carbon dioxide (CO2), Sulfure Oxides , Nitrogen Oxides

11. TOXICOLOGICAL INFORMATION:

Potential health effects : This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

Skin and eye contact : Skin: Brief contact is essentially non-irritating to skin.

Prolonged skin contact is unlikely to result in absorption of harmful amounts. The

: Eye: Mild-irritating to eyes

Inhalation : May harmful If Handled without respiratory Protection12. ECOLOGICAL INFORMATION:

Environmental data : Do not contaminate streams, rivers or waterways with this waste of the used containers.

Aquatic toxicity: The active ingredient is very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS :

The waste is toxic as well as Flammable Organic chemical; In case of leakage or Spillage collect

the liquid by absorption. Use sand, Fly ash or other inert absorbing media. The collected waste to be incinerated at pollution control board approved facility.

14. TRANSPORT INFORMATION :

The waste to be transported in the approved vehicles. The driver should have necessary PPEs , Emergency contact No and Knowledge about the Material is transported .

15. REGULATORY INFORMATION

Poison Schedule : HARMFUL DANGEROUS

Risk Phrases : Harmful by inhalation and if swallowed. May cause sensitization by skin contact.

Toxic to aquatic organisms, any cause long-term adverse effects in the aquatic environment.

Flammable Material

Safety Phrases : Keep out of the reach of children.

Keep away from food, drink and animal feeding stuffs. When using do not eat or drink/smoke. Don't breathe gas/fumes/vapor/ spray. Avoid contact with skin and eyes.

Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

Wear suitable gloves.

If you feel unwell, contact a doctor of Poison Information Centre immediately. If swallowed seek medical advice immediately Use only in well ventilated areas. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. OTHER INFORMATION :

The data given here is based on current knowledge and experience. The purpose of this Safety data Sheet is to describe the waste in terms of their safety requirements. The data does not signify any warranty with regard to the waste's properties. The information contained herein is based on the present state of our knowledge as is intended to describe our wastes from the point of view of safety requirements. Bharuch Enviro Infrastructure Limited makes no warranty expressed or implied in respect of the adequacy of this document for any particular purpose.

MSDS

COAL

SECTION 1 : Identification of the substance/mixture and of the supplier

Product name : **Charcoal, Activated Carbon**

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25246

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education
15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2 : Hazards identification

Classification of the substance or mixture:

Irritant
Eye irritation, category 2A
Specific target organ toxicity following single exposure, category 3

Flammable
Flammable solids, category 1

Eye Irrit. 2
STOT SE 3
Hazards Not Otherwise Classified - Combustible Dust
Flam. Sol. 2

Signal word :Danger

Hazard statements:
Flammable solid
Causes serious eye irritation
May cause respiratory irritation
Precautionary statements:
If medical advice is needed, have product container or label at hand
Keep out of reach of children
Read label before use
Keep away from heat/sparks/open flames/hot surfaces. No smoking
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/light/equipment
Avoid breathing dust/fume/gas/mist/vapours/spray
Wash skin thoroughly after handling
Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection
Do not eat, drink or smoke when using this product
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
In case of fire: Use agents recommended in section 5 for extinction
If eye irritation persists get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
Continue rinsing
Store locked up
Store in a well ventilated place. Keep container tightly closed
Dispose of contents and container to an approved waste disposal plant

Combustible Dust Hazard: :
May form combustible dust concentrations in air (during processing).

Other Non-GHS Classification:

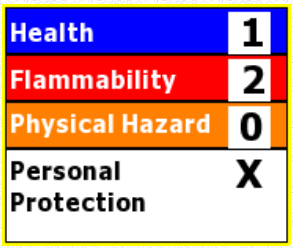
WHMIS

D2B 

B6 

NFPA/HMIS

NFPA SCALE (0-4)



HMIS RATINGS (0-4)

SECTION 3 : Composition/information on ingredients

Ingredients:		
CAS 7440-44-0	Carbon	100 %
		Percentages are by weight

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Loosen clothing as necessary and position individual in a comfortable position.Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen.Get medical assistance if cough or other symptoms appear.

After skin contact: Rinse/flush exposed skin gently using soap and water for 15-20 minutes.Seek medical advice if discomfort or irritation persists.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if

concerned.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea,Headache, Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.Physician should treat symptomatically.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents: None identified.

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors.Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.Use spark-proof tools and explosion-proof equipment.Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols.Avoid contact with skin, eyes, and clothing.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Use spark-proof tools and explosion-proof equipment.Ensure that air-handling systems are operational.Ensure adequate ventilation.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Should not be released into environment.

Methods and material for containment and cleaning up:

Keep in suitable closed containers for disposal.Wear protective eyeware, gloves, and clothing. Refer to Section 8.Always obey local regulations.Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect solids in powder form using vacuum with (HEPA filter). Evacuate personnel to safe areas.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Minimize dust generation and accumulation. Follow good hygiene procedures when handling chemical materials. Refer to Section 8.Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities:

Store away from incompatible materials.Protect from freezing and physical damage.Keep away from food and beverages.Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame.

Store in cool, dry conditions in well sealed containers. Store with like hazards

SECTION 8 : Exposure controls/personal protection



Control Parameters: , , OSHA PEL TWA (Total Dust) 15 mg/m3 (50 mppcf*)
, , ACGIH TLV TWA (inhalable particles) 10 mg/m3

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling.Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Respiratory protection: When necessary use NIOSH approved breathing equipment.

Protection of skin: Select glove material impermeable and resistant to the substance.Select glove material based on rates of diffusion and degradation.Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.Wear protective clothing.

Eye protection: Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).Safety glasses or goggles are appropriate eye protection.

General hygienic measures: Perform routine housekeeping.Wash hands before breaks and at the end of work.Avoid contact with skin, eyes, and clothing.Before wearing wash contaminated clothing.

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	Black solid	**Explosion limit lower:** **Explosion limit upper:**	Not Determined Not Determined
Odor:	Odorless	**Vapor pressure:**	1 mm Hg @ 3586C
Odor threshold:	Not Determined	**Vapor density:**	Not Determined
pH-value:	6.0 – 9.0	**Relative density:**	1.8 - 2.1
Melting/Freezing point:	3652 - 3697°C / 6606 - 6687°F	**Solubilities:**	Insoluble in water.
Boiling point/Boiling range:	Decomposes	**Partition coefficient (n-octanol/water):**	Not Determined
Flash point (closed cup):	Not Determined	**Auto/Self-ignition temperature:**	Not Determined
Evaporation rate:	Not Determined	**Decomposition temperature:**	1 mm Hg @ 3586C

Flammability (solid,gaseous):	Not Determined	**Viscosity:**	a. Kinematic:Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity

Reactivity: Nonreactive under normal conditions.
Chemical stability: Stable under normal conditions.
Possible hazardous reactions: None under normal processing
Conditions to avoid: Incompatible Materials.Ignition sources, dust generation, moisture, excess heat.
Incompatible materials: May react vigorously or violently when mixed with strong oxidizing agents such as chlorates, bromates and nitrates, especially when heated. Incompatible with chlorinated paraffins, Lead oxide, manganese oxide, iron oxide, liquid oxygen, oils, and moisture.
Hazardous decomposition products: Oxides of carbon.

SECTION 11 : Toxicological information

Acute Toxicity:		
Oral:	Effect level > 8000 mg/kg bw	LD50 rat
Inhalation:	Effect level > 4.6 mg/m³ air Exp. duration 4 h	rat
Chronic Toxicity: No additional information.		
Corrosion Irritation: No additional information.		
Sensitization:		No additional information.
Single Target Organ (STOT):		No additional information.
Numerical Measures:		No additional information.
Carcinogenicity:		No additional information.
Mutagenicity:		No additional information.
Reproductive Toxicity:		No additional information.

SECTION 12 : Ecological information

Ecotoxicity

Brachydanio rerio (new name: Danio rerio) Duration 96 h Endpoint LC0 : Effect conc. 1000 mg/L

Daphnia magna 24 h Endpoint EC100: Effect conc. 10000 mg/L

Persistence and degradability:
Bioaccumulative potential:
Mobility in soil:
Other adverse effects:

SECTION 13 : Disposal considerations

Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material.Dispose of empty containers as unused product.Product or containers must not be disposed with household garbage.It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11).Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

UN-Number

1362

UN proper shipping name

Carbon Activated

Transport hazard class(es)

Class:

4.2 Substances liable to spontaneous combustion

Packing group:III Environmental hazard: Transport in bulk:

Special precautions for user:

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings): Fire

SARA Section 313 (Specific toxic chemical listings): None of the ingredients is listed

RCRA (hazardous waste code): None of the ingredients is listed

TSCA (Toxic Substances Control Act): All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): None of the ingredients is listed

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed

Chemicals known to cause developmental toxicity: None of the ingredients is listed

None of the ingredients is listed

SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.Note:. The responsibility to provide a safe workplace remains with the user.The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.The information contained herein is, to the best of our knowledge and belief, accurate.However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material.It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:

Abbreviations and acronyms:
IMDG: International Maritime Code for Dangerous Goods
PNEC: Predicted No-Effect Concentration (REACH)
CFR: Code of Federal Regulations (USA)
SARA: Superfund Amendments and Reauthorization Act (USA)
RCRA: Resource Conservation and Recovery Act (USA)
TSCA: Toxic Substances Control Act (USA)
NPRI: National Pollutant Release Inventory (Canada)
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)

ANNEXURE-6

PROCESS & VESSEL HAZARDS & CONTROLS

Hazardous process & operation	**Materials in the process / operation**	**Name of the vessel & its location**	**Operating parameters**	**Type of hazards possible**	**Control measures**	**Incharge Person with designation**
1	2	3	4	5	6	7
Charging Area						
Charging & Mixing of Hazardous Liquid waste	Hazardous Liquid waste	R-1041 R-1042 at charging area R-1043 at charging area	Atmospheric temp. & pressure	➢ Pressure develop in case of material incompatibility	➢ Mechanical seal for transferring pump. ➢ Personal protective equipments are being used ➢ Provision of Safety shower ➢ Breather Valve and venting line provided. Vent line is connected with scrubbing system. ➢ Inter locking system provided. ➢ Provision of Fire Hydrant System & Extinguishers. ➢ Grounding of storage vessel to earth pit. ➢ Declared as No Hot Work Zone. ➢ Tanks are provided with dip pipe. ➢ N2 blanketing	Charging area Incharge

					system.	
Incinerator Plants						
Incineration of hazardous waste	-Natural Gas -Hazardous solid waste -Hazardous Liq. Waste	Rotary Kiln incinerator plant	Pressure⊗ -ve) 2 mm wc Temp.: 850 ± 50ºC	➢ Fire & explosion in case of positive pressure ➢ Toxic gas release	➢ Interlocking system is provided ➢ Auto control DCS system is provided ➢ Regular preventive maintenance	Incinerator plant In charge
Incineration of hazardous waste	-Natural Gas -Hazardous Lig. Waste	SCC incinerator plant	Pressure⊗ -ve)10 mm wc Temp.: 1100ºC to 1160ºC			
Incineration of hazardous waste	Hazardous solid waste -Hazardous Liq. Waste	SMP	Amt	➢ Fire & explosion in case of positive pressure Toxic gas release	➢ Interlocking system is provided ➢ Auto control DCS system is provided Regular preventive maintenance ABC power flooding system provided	Incinerator plant In charge
Absorption of hazardous gas in spray dyer	Fuel gas and hot hazardous gases	Spray dryer absorption chamber	Under vacuum	➢ Fire & explosion in case of positive pressure ➢ Toxic gas release	➢ Interlocking system is provided ➢ Auto control DCS system is provided Regular preventive maintenance ➢ Fire hydrant line provided in chamber	Incinerator plant In charge
Multi Effect Evaporator Plant						

Evaporation of Liquid waste	-Liquid waste -Steam	VLSs Calandrias	Pressure: (-ve) 660 to 710 mm/Hg Temp. 45°C to 95°C	➢ Fire & explosion in case of positive pressure ➢ Toxic gas release	➢ Auto control SCADA system is provided ➢ Pressure gauges are provided ➢ Regular preventive maintenance	MEE Plant In charge
Spray dryer	-Waste water slurry	Spray dryer	140 to 160C	➢ Fire in spray chamber	➢ Interlocking system is provided ➢ Auto control DCS system is provided Regular preventive maintenance ➢ Fire hydrant line provided in chamber	
	Slurry of High flow charged	Spray dryer	under ambient pressure & temp.	➢ Dust May Cause skin & eyes irritation.	Personal protective equipments are being used	
	Coal in Fluidized combustion furnace	Fluidized furnace at ground floor	Under vacuum	➢ Fire or explosion if high pressure ➢ Person got burn injury while handling ash	➢ Interlocking system is provided ➢ Trained persons involve ➢ Proper PPE'S provided	
Coal fire boiler	High pressure steam	Steam drum and boiler shell site	pressure	➢ Steam drum explosion	➢ Interlocking system is provided ➢ Trained persons involve ➢ Preventive maintenance	Maintenance In charge

ANNEXURE-7

OTHER HAZARDS AND CONTROLS

Sr. No.	Name of the possible hazard / emergency	Its source & reason	Its effect on persons, property & environment	Place of effect	Control measures provided	In charge person
1	2	3	4	5	6	7
Utilities						
A	**Electrical**					
i	Fire	➢ Loose connections ➢ Weak earthing ➢ Short circuit ➢ Improper Insulation	➢ Electrical power failure ➢ Production Hindrance ➢ Loss of transformer	➢ Transformer ➢ MCC panel	➢ Firefighting equipment's ➢ Gravel bed for oil spillage/soaking ➢ Isolated area for MCC panel & Transformer. ➢ Lightning arrester provided. ➢ Proper Earthling to Electrical Equipment. ➢ Alternate power source by D.G. Set ➢ Periodic checking of joints ➢ Proper insulation	Electrical Incharge
ii	Electrical Shock		➢ Electric shock can cause death ➢ Electric short circuit can cause damage to property	➢ Power points ➢ Live wires ➢ Electric Equipments	➢ Skilled manpower ➢ Proper insulation ➢ Proper earthing ➢ PPEs	
iii	Burning		➢ Serious injury or	➢ Power points	➢ Skilled manpower ➢ Proper insulation	

			death	➢ Live wires ➢ Electric Equipments	➢ Proper earthing ➢ PPEs	
B	**Compressed Air**					
i	Injury/Death Due to High Pressure	➢ Air Compressor	➢ Serious injury or death can be caused by quite a small pressure of air especially on delicate parts such as eyes, ear & nose	➢ Compressor house ➢ Service air point	➢ It is ensured that compressed air is not used for cleaning itself. ➢ Direct air is not being used through hose	Mechanical In charge
C	**Boiler**					
i	Explosion	➢ Boiler	➢ Potential damage to property ➢ Can cause severe injury/death to person.	➢ Boiler House	➢ Continuous monitoring of operating pressures. ➢ Provision of safety valves ➢ Provision of high pr. Alarms & trips for the boiler.	Mechanical In charge
D	**Structural Failure**					
i	Structural failure	➢ Structure	➢ Potential damage to property ➢ Can cause severe injury/death to person.	➢ Within the factory	➢ Regular cleaning & painting ➢ Periodic structure stability inspection by competent person	In charge of Civil Engineering Dept
E	**Natural Disasters**					
v	➢ Natural Disaster. ➢ Earthquakes	➢ Natural	➢ Production hindrance ➢ Trapping under	➢ Whole factory ➢ Population nearby	➢ Lightning arrester at highest point. ➢ Auto fire hydrant system. ➢ Respiratory protection	SMC

	➢ Lightning, storms, ➢ Man-made War. ➢ Sabotage & fire in neighboring industries		debris. ➢ Death due to toxic releases. ➢ Chemical burn.		equipment's. ➢ Siren, Evacuation, rescue & shelter/welfare facility	

ANNEXURE-8

TRADE-WASTE DISPOSALS

Sr. No.	Name of the trade waste	Its generation per day	Place of its generation	Place of its safe disposal	Treatment method of safe disposal	Monitoring & control measures provided	In charge person
1	2	3	4	5	6	7	8
1	Incineration ash	10 to 20 ton	Incinerator plants	Land filling site of BEIL	NR	➢ Immediate disposal to landfill ➢ Waste analyzed ➢ Ground water analysis	Incinerator plant Manager
2	MEE Salt	13 to 17 ton	MEE plant	Land filling site of BEIL	NR	➢ Immediate disposal to landfill ➢ Waste analyzed ➢ Ground water analysis	MEE plant manager
3	Leachate	70 to 80 KL	Landfill site	➢ MEE plant-BEIL	Treatment Plant	➢ Separate leachate collection & transferring arrangement is provided ➢ Waste analyzed ➢ Ground water	Landfill in Charge

						analysis	
4	Discarded Empty Decontaminated Containers	7 to 8 nos.	All Plant	Approved scrap vendor	NR	➢ GPCB approved Scrap Vendor ➢ On –Site Drum Cleaning Facility before selling to scrap vendor. ➢ AEPS inspection prior to disposal.	MEE plant In charge
5	Discarded Empty Contaminated Containers	2 to 3 MT	All plant	Approved scrap vendor	Treatment Plant	➢ GPCB approved Scrap Vendor ➢ Separate storage shed is provided	MEE plant In charge
6	Used oil	0.5 to 0.8 Ltr	All Plant	Used for lubrication/ Registered recycler	NR	Stored in packed drum	Mechanical In charge

ANNEXURE-9

RECORDS OF PAST INCIDENTS

Sr. No.	Type of incident (Major accident, emergency or disaster)	Date and time of Occurrence	It's place	Duration	Time required in controlling it	Nos. of workers working at that time	Persons affected		Persons died		Subsequent safety measures provided
							Inside factory	Outside factory	Inside factory	Outside factory	
1	2	3	4	5	6	7	8	9	10	11	12
Nil											

ANNEXURE-10

GAS DISPERSON CONCENTRATION

Assuming leak rate (Q) = 3 kg / sec. i.e. 3 x 106 mg/sec. And velocity (u) = 2 and 5 M/sec. Downwind concentrations of some gases at various distances are calculated and tabulated as follows:

Maximum concentration (PPM) IN DOWNWIND DIRECTION AT DISTANCE X. Wind velocity = 2 M/Sec. for most unstable after-noon weather Condition (A)

Product	100 M	200 M	300 M	400 M	500 M	700 M	1 KM	2 KM	3 KM	4 KM	5 KM
Chlorine	439	110	41	27	21	11	4.11	1.03	0.45	0.26	0.16
Phosgene	315	79	29	20	15	7	2.95	0.74	0.33	0.18	0.12
SO_3	389	97	36	24	19	11	3.65	0.91	0.41	0.23	0.15
Ammonia	1832	458	171	115	89	50	17.18	4.29	1.91	1.07	0.69
PCl_3	254	64	24	16	13	-	2.39	0.60	0.27	0.15	0.09
CSA	279	70	26	17	14	-	2.50	0.63	0.28	0.16	0.10

Note: For other weather condition respective curve should be chosen

Maximum concentration (PPM) IN DOWNWIND DIRECTION AT DISTANCE X. Wind velocity = 5 M/Sec. for most unstable after-noon weather Condition (B)

Product	100 M	200 M	300 M	400 M	500 M	700 M	1 KM	2 KM	3 KM	4 KM	5 KM
Chlorine	175	44	16	11	9	5	1.64	0.41	0.18	0.18	0.06
Phosgene	125	31	12	8	6	8	1.18	0.30	0.13	0.07	0.05
SO_3	156	39	15	10	8	4	1.46	0.36	0.16	0.09	0.09
Ammonia	132	183	69	46	36	20	6.87	1.72	0.76	0.43	0.24
PCl_3	111	28	10	7	5	3	0.96	0.24	0.11	0.06	0.04
CSA	112	28	10	7	5	3	1.00	0.25	0.11	0.06	0.04

Note: For other weather condition respective curve should be chosen

ANNEXURE-11

EVACUATION TABLE

EVACUALTIN TABLE BASED ON PREVAILING WIND OF 6 TO 12 mps (2.7 TO 5.4 m/s)			
Material	**Radius of immediate danger area (KM)**	**Dimension of evaluation area**	
		Downwind (Km)	**Crosswind (Km)**
Acrolein	0.69	8.05	4.83
Acrylonitrile	0.03	0.32	0.16
Ammonia	0.08	0.64	0.48
Carbon dislfide	0.04	0.32	0.16
Chlorine	0.31	3.22	2.41
Dimethylamine	0.14	1.13	1.29
Epichloronydrin	0.05	0.32	0.32
Etylene oxide	0.04	0.32	0.16
Fluorine	0.20	1.61	1.61
Hydrogen chloride	0.24	2.41	1.61
Hydrogen cyanide	0.12	1.13	0.44
Hydrogen fluoride	0.30	3.22	1.61
Hydrogen sulfide	0.15	1.61	0.81
Methyl mercaptan	0.09	1.29	0.48
Monomethylamine	0.14	1.13	1.29
Nitric acid	0.13	1.13	0.64
Nitrogen tetroxide	0.14	1.13	1.29
Oleum	0.35	3.22	1.61
Phosgene	0.75	8.05	4.83
Phosphorous trichloride	0.14	1.21	0.81
Sulfur dioxide	0.13	1.21	0.81
Sulfur trioxide	0.35	3.22	1.61
Sulfuric acid	0.35	3.22	1.61
Trim ethylamine	0.35	3.22	2.41
Source: Emergency Action Guide for selected Hazardous Materials, U.S. Dept. of Transportation, 1978			

ANNEXURE-12

ENVIORNMENTAL IMPACT ASSESSMENT

Sr. No	Distance (radius) from the factory	Population	Possible consequence & Assessment			Control measures Provided
			Type of risk & effect possible	Duration of risk	Risk assessment Frequency of the hazard (i.e. one such incident in what time)	
1	2	3	4	5	6	7
1	Upto 1000 Mt.	3000	Gas exposure due to fire	1 to 4 hrs.	Rarely	➢ All the storage sheds are covered with fire hydrant system, automatic sprinkler system is provided in all the sheds, Smoke & heat detectors are installed in all the sheds, Fire extinguishers are also provided. ➢ Mechanical seal for transferring pump. ➢ N2 blanketing system for high CV liquid storage tanks. ➢ Provision of Fire Hydrant System & Extinguishers. ➢ Proper Grounding of storage vessel to earth pit. ➢ Safety work permit system is in place. ➢ Tanks are provided with dip pipe. ➢ Proper Earthing & bonding before Loading/Unloading operations.
2	1.9 Km	3900	Gas exposure due to fire	1 to 4 hrs.	Rarely	
3	2.5 Km	3100	Gas exposure due to fire	1 to 4 hrs.	Rarely	
4	2.6 Km	12600	Gas exposure due to fire	1 to 4 hrs.	Rarely	
5	3.4 Km	700	Gas exposure due to fire	1 to 3 hrs.	Rarely	
6	3.6 Km	5400	Gas exposure due to fire	1 to 3 hrs.	Rarely	
7	4.2 Km	1100	Gas exposure due to fire	1 to 2 hrs.	Rarely	

ANNEXURE-13

WEATHER CONDITIONS

Sr. No.	Period of the year		Temp. °C		Wind Vel. KM/Hrs.	Wind Direction		Weather Conditions	Pasquill Classification A TO F
	Dates								
	From	To	Max.	Min.		Day	Night		
1	2	3	4	5	6	7	8	9	10
1	1st Jan.	31st Jan.	26.7	11.9	1.19	SE/NE	NE/NW	Cold & Stable	D
2	1st Feb.	28/29 Feb	31.0	14.5	1.19	SE/NE	W/NW	Dry & Stable	D
3	1st Mar.	31st Mar.	35.7	18.6	1.19	NE/NW	W/NW	Dry & Stable	D
4	1st Apr.	30th Apr.	39.0	23.6	1.19	NW/W	W/NW	Dry & Stable	D
5	1st May	31st May	44.0	26.0	1.19	NW/W	SW/W	Hot	D
6	1st Jun.	31st Jun.	43.0	27.0	1.19	SW/W	SW/W	Moist & Hot	D
7	1st July.	31st July	35.0	25.0	1.19	SW/W	SW/W	Hot & Rainy	D-F
8	1st Aug.	31st Aug.	31.0	24.0	1.19	SW/W	SW/W	Hot & Rainy	D-F
9	1st Sep.	30th Sep.	33.0	24.0	1.19	S/NW	SW/W	Hot & Rainy	D-F
10	1st Oct.	31st Oct.	35.0	21.0	1.19	NE/W	NE/NW	Moist	D
11	1st Nov,	30th Nov	33.0	16.0	1.19	NE/E	NE/E	Dry	D
12	1st Dec.	31st Dec.	29.0	12.0	1.19	NE/E	NE/NW	Cold &Stable	D

ANNEXURE-14

INCIDENT CONTROLLERS

Shift	Incident Controller's				
	Name	**Designation**	**Qualification**	**Place of availability**	**Res. Add.**
1	2	3	4	5	6
First & General	Incinerator plant shift in charge	Shift -in charge	B.E Chemical	Plant Office	Bharuch
	MEE plant Shift In charge	Shift -in charge	B.E Chemical	Control Room	Bharuch
Second	Incinerator plant shift in charge	Shift -in charge	B.E Chemical	Control Room	Bharuch
Third	Incinerator plant shift in charge	Shift -in charge	B.E Chemical	Control Room	Bharuch
Holiday	Day duty officer	officer	B.E Chemical	Inci Control Room	Bharuch

ANNEXURE-15

DEPUTY INCIDENT CONTROLLERS

Shift	**Deputy Incident Controller's**				
	Name	**Designation**	**Qualification**	**Place of availability**	**Res. Add.**
1	2	3	4	5	6
First & General	Incinerator plant shift in charge	Shift In charge	B.E Chemical	Inci Control Room	Bharuch
	MEE plant Shift In charge	Shift In charge	B.E Chemical	Inci. Control Room	Bharuch
Second	MEE plant Shift In charge	Shift In charge	B.E Chemical	Inci Control Room	Bharuch
Third	MEE plant Shift In charge	Shift In charge	B.E Chemical	MEE Plant	Bharuch
Holiday	Day duty officer	officer	B.E Chemical	Plant Office	Bharuch

ANNEXURE-16

SITE MAIN CONTROLLERS

Sr. No.	Name	Designation	Qualification	Place of availability	Res. Add.	Resi.
1	2	3	4	5	6	7
1	Mr.Rajesh Mistry	Unit Head	B.E. Civil	ADM	A-1, Pavanpuri 1 Bholav, Bharuch-392001	9099057365
2	Mr. Bhavesh Pancholi	Sr. Manager	B.Sc.	Plant Office	A2/52, Narayan Garden, Nr. Shravan School, Bharuch-392001	9909996023

ANNEXURE-17

KEY PERSSONEL

Sr. No.	Name/Designation	Residence address	Contact No.
1	Mr.Rajesh Mistry	A-1,Pavanpuri-1,Narmada Spinning Mill Compound, Bholav, Bharuch, Pin-392001	9099057365
2	Mr. Bhavesh Pancholi	A2/52, Narayan Garden, Nr. Shravan School, Bharuch-392001	9909996023
3	Mr Pathik Patel	11, Siddhivinayak Park, Bholav, Bharuch	9714784499
4	Mr.Varad Bhatt	1/28, Narayankunj Society, Bholav, Bharuch	7069004375
5	Mr. Sandeep Rana	A-16 Nipan nagar, Link road, Bharuch	9978374822
6	Mr. Mehul Prajapati	A-10, Ganeshpuri Society, Zadeshwar Road, Bharuch	9879680026
7	Mr. Jay Degadwala	282, Siddhnath nagar, GH board, Bharuch	7575043283

ANNEXURE-18

ESSENTIAL WORKERS

Sr. No.	Name	Contact No.
1	Mr. Jay Degadwala	7575043283
2	Mr. Het Patel	9601835644
3	Security In charge	9712529448
4	Mr. Pathik Patel	9714784499
5	Mr. Tarun Chauhan	8160807537
6	Mr. Shailesh Vasava	9586954708
7	Mr. Chirag Jadav	8460770478
8	Mr. Mehul Prajapati	9879680026
9	Mr. Shoaib Master	9974289157
10	Mr. Ashish Chaudhri	9978950089

ANNEXURE-19

ASSEMBLY POINTS

Sr. No.	Location	Accommodation Capacity	At the time of emergency Person incharge's		
			Name & Designation	Place of availability	Phone No.
1	2	3	4	5	6
1	Main Gate	200	MrPathik Patel	ADM	
2	New Land filling behind Phase III	200	Mr. Het Patel	ADM	

ANNEXURE-20

EMERGENCY CONTROL CENTRE

Location of Centre: Main Adm. **Telephone No. of the ECC:** 105			
Sr. No.	**Items kept in the center**	**Quantity**	**Notes**
1	2	3	4
1	SCBA set	01	
2	Cartridge mask	05	
3	Rubber hand gloves	10 Pairs	
4	PVC Hand Gloves	20 pairs	
5	Dust mask	100	
6	Gum Boot	05 pairs	
7	Safety Helmet	05	
8	Safety Goggles	10	
9	Onsite Emergency Plan	01	
10	List of Emergency Phone No.	01	
11	Plant Lay out copy	01	

ANNEXURE-21

FIRE AND TOXICITY CONTROL ARRANGEMENTS

- **TAC APPROVED FIRE HYDRANT SYSTEM**
- **WATER STORAGE CAPACITY : 1350 K L**
- **FIRE PUMPS**

Primary electricity driven pump : 273 M3/Hr

Diesel Driven pump : 273 M3/Hr

Secondary electricity driven pump : 173 M3/ Hr

Jockey pump : 03 M3/Hr

- **DETAIL OF FIRE HYDRANT POSTS & MONITORS**

SHP : 57 Nos.

Monitors : 26 Nos.

- **DETAIL OF FIRE EXTINGUISHERS**

List Of Fire Equipment		
Sr. No.	Name	Quantity
1	Fire Extinguisher	125
2	Fire Monitor	16
3	Foam Trolly	5
4	Sand bucket	30
5	Riser	3
6	Fire Hydrant	56

	Point	
7	Fire Hose Box	48
8	Fire Hose reel	9
9	Safety Shower	9

ANNEXURE-22

MEDICAL ARRANGEMENTS

Name of Hospital & Location	Telephone No.	Details of In-charge Person			Facilities	Antidotes	First Aiders	Accomodation	Ambulance van or alternate arrangement			
		Name	Residence						Place of availability	Capacity	Facilities in the van	Driver's name & address
			Phone	Address								
1	2	3	4	5	6	7	8	9	10	11	12	13
First Aid centre near main Security Gate		Safety Officer	7069004375	Bharuch	3 bad and oxygen facility	Anti snack	9	Yes in plant	near main Security Gate	5 people	----	9712529448 9737971510

Doctors (all nearby)			Mutual Aid Arrangements								
Name address & Phones	Residence		Name & address of the facto-tires & Hospitals	Approx. Dist.	Contact		Facilities available				
	Phone No.	Phone No.			Person	Phone No.	Accommodation	Doctors	Equipments	Anti-dotes	Ambulance van
1	2	3	4	5	6	7	8	9	10	11	12
Medical Superintendent	02642-2425201/244881	Bharuch Hospital (Patel Welfare Hospital), Jambusar Road, Nr. Bharuch	Reliance Industries (IPCL) Occupational Health Centre	5 Km	**Dr. R. Ranjan** MBBS, GM (MS) **Dr. V. N. Sheth** MBBS, Sr.Mgr.	02641-282032/33/3, 282000 (M) 9974078510 (M) 9998975822	---	Dr. R. Ranjan MBBS, GM (MS) Dr. V.N.Sheth MBBS, Sr.Mgr.(MS)	03 Ambulance 02 Stretchers, 10 Bed, 15 Oxygen cylinders and laboratory available	---	03

		tower			(MS)						
	0265- 2280300/ 2381301 / 2286666 / 2282155	Bhailal Amin general Hospital	Birla Copper First Aid Center	7 Km	Medical officer	02641- 256004/5/6, 251008/9	---	Dr. A. A. Rawal MS, Medical officer	03 Ambulance 06 Stretchers, Bed 13, Oxygen cylinders 02 and laboratory available	---	03

ANNEXURE-23

TRANSPORT & EVACUATION ARRANGEMENTS

Sr. No.	Type of vehicle	Capacity	Place of availability	In charge	Phone No.
1	2	3	4	5	6
1	Ambulance van	2 persons	Main Gate	HR Department Incharge	
1	Maruti Van	2 persons	Main Gate	HR Department Incharge	
2	Car	2 persons	Main Gate	HR Department Incharge	

ANNEXURE-24

POLLUTION CONTROL ARRANGEMENTS

Water Pollution Controls					**Air Monitoring**					
Type & capacity of effluent treatment plant	**No. of sample monitoring centers & its frequency**	**Other control measures**	**Log book & records**	**Incharge person's name address & phones**	**No and place of sample monitoring centers**	**Type parameters & frequency of tests**	**Wind direction & velocity meters**	**Instruments available**	**Log Book & records**	**In charge person's name address & phones**
1	2	3	4	5	6	7	8	9	10	11
MEE Plant 15 MT/Hr.	01 Daily	Pumping system for W/W transferring	Available	Mr. Janak Prajapati	Nr. Laboratory	As per CCA	Weather monitoring system	Available	Form No. 37	Sathish
Waste water sent to ASP/RO					Nr. Bore well No. HB 05	As per CCA	Weather monitoring system	Available	Form No. 37	Sathish

STACK MONITORING				**SCRUBBERS**			**Pollution control Board**	
No. & Location of sample places	**Type Parameters & frequency of tests**	**Instruments provided**	**Log book & records**	**Location**	**Type & capacity**	**Incharge person**	**Permission obtained?**	**Conditions fulfilled**
12	13	14	15	16	17	18	19	20
Incinerator MEE	As per CCA	Online continuous monitoring system	Available	Incinerator	Packed bed 75 m3/hr.	Plant Incharge	Yes	Yes

Boiler DG set								

ANNEXURE-25

OTHER ARRANGEMENTS

Sr. No.	Type and name of arrangements available	Qty.	Place of availability	Incharge person's	
				Name & designation	Phone
1	2	3	4	5	6
1	JCB / Dozzer	05	Landfill site	Landfill in charge	9601835644
2	Forklift	06	Plant	Plant in charge	8809498654
3	Transporters for Material	03	Landfill Site	Landfill in charge	9601835644
4	DG Sets	02	Plant	Electrical In charge	7575043283
5	Fire Trailer Pump	01	Plant	Safety in charge	7069004375
6	Mechanical Foam	1 KL	Plant	Safety in charge	7069004375
7	Mobile Foam Trolley	02	Plant	Safety in charge	7069004375
8	NABL & MoEF approved Test Facilities	01	QC	Lab in charge	9099036854

ANNEXURE-26

ALARMS & SIRENS

Sr. No.	Location of Sirens	Type of the alarm or siren	Period of checking	Type of emergency	Type of Siren	Duration Of sounding
1	2	3	4	5	6	7
1	Main adm	Electrical	Weekly	Fire or Other	Interrupted	10 sec. ON & 5 sec. OFF three times
				Gas leak	Interrupted	15 Sec. ON & 15 Sec. OFF four times
2	MEE Plant	Electrical	Weekly	All clear	continuous	1 min. continuous
				Testing	continuous	1 Min. Continuous on every Wednesday

ANNEXURE-27

INTERNAL PHONES

Sr. No.	Name & designation	Address	Contact No.
1	Mr. Rajesh Mistry	A-1,Pavanpuri-1,Narmada Spinning Mill Compound, Bholav, Bharuch, Pin-392001	9099057365
2	Mr. Bhavesh Pancholi	A2/52, Narayan Garden, Nr. Shravan School, Bharuch-392001	9909996023
3	Mr.Varad Bhatt	/28, Narayankunj Society, Bholav, Bharuch	7069004375
4	Mr Pathik Patel	11, Siddhivinayak Park, Bholav, Bharuch	9714784499
5	Mr. Jay Degadwala	282, Siddhnath nagar, GH board, Bharuch	7575043283
6	Mr. Sandeep Rana	A-16 Nipan nagar, Link road, Bharuch	9978374822
7	Mr. Mehul Prajapati	A-10, Ganeshpuri Society, Zadeshwar Road, Bharuch	9879680026
8	Mr. Manish Shah	Bharuch	9099036854

ANNEXURE-28

EXTERNAL PHONES

Sr.	Name	Organisation/ Department	Contact No.
Nearby Fire Station			
1	Mr. Sanjay Vaidya, Dy. Mgr. (Incharge Fire & Safety)	GCPTCL Fire Station	02641-261035/261101 (M) 9998011229 (M) 9998950550
2	Mr. P. Singh AVP (FSD)	Reliance Industries Ltd. (IPCL) Fire Station	02641-282431/32, 282000, 282433, 282400 (M) 9998975878
3	Mr. Shailendra sing AGM (F&S)	Birla Copper (HINDALCO) Fire Station	02641-256004-06/ 251008-09 (M) 8155001463
4	Mr. N. S. Swarup Mgr. (EHS)	BASF Fire & Safety dept	02641-256571 to 256575 02641-257206 (M) 9824704606
5	Mr. Pankaj Patel Dy. Mgr. (Fire)	GACL Fire Dept	02641-256315-17 (M) 9909918873
6	**---**	Bharuch Fire Station	02642-240008 /101/ 102
Occupational Health Centre/ First Aid-Centre			
7	Reliance Industries (IPCL) Occupational Health Centre	Dr. V.N.Sheth MBBS, Sr.Mgr.(MS)	02641-282032/33/34, 282000 (M) 9974078510
8	Birla Copper First Aid Center	Dr. A.A.Rawal MS, Medical officer	02641-256004/5/6, 251008/9 (M) 9904402622
9	GCPTCL	Dr. V.N.Sheth MBBS, Sr.Mgr.(MS)	02641-261031 (M) 9974078510

10	BASF	Dr. Himanshu Vanza MBBS, Medical Officer	02641-256571 to 75, 257206 (M) 9824143883
11	GACL	Dr. M. P. Vyas MBBS, Medical Officer Dr. J. Gadhiya MBBS, CIS	02641-2486407 / 507, 240889, 2489371 (M) 9825298432 (M) 9825224597
12	Bharuch Hospital (Patel Welfare Hospital)	Dr. Suketu Dave Medical Superintendent	02642-2425201/ 244881 (M) 98241-41681
13	Civil Hospital	Dr. N.A.Parikh Chief Dist. Medical Officer & Civil Surgeon	02642-243515, 241759 (M) 9426043580
14	Petronet LNG Ltd**.**	Dr. Ashit Vyas MBBS, Medical Officer	02641-300456 (M) 982546911
District Authority			
15	Soum Kumar	Disaster Management Center, Dahej	(02641)256670 (M) 9426253717
16	Shri C.M.Parmar	Gujarat Maritime Board Port officer-Bharuch	(02642)243140 (M) 9925153060
17	District Collector	Bharuch	(02642)240600
18	SDM	Bharuch	(02642)241980
19	Dist. Superintendent of Police	Bharuch	(02642)223633
20	Dy. Superintendent of Police	Bharuch	(02642)269533
21	Mamlatdar	Vagra	(02641)225221
22	Police Inspector	Dahej	(02641)256233
23	Police Sub Inspector	Dahej	(02641)225233
24	District Collector Office Control Room	Bharuch	(02641)225221

25	DSP Office Control Room	Bharuch	(02641)256233
26	Mr. Manoj Kotdiya	DPMC, Ankleshwar	(02641)225233 (M) 9426889616
Industrial, Safety & Health			
27	Director (IS&H)	Ahmedabad	(079)25502349, 25502357
28	Dy. Director	Bharuch	9825453845
Gujarat Pollution Control Board (GPCB)			
29	Shri Hardik Shah	Member Secretary, Gandhinagar	(079)23232152
30	RO-GPCB	Regional Officer, Bharuch	(02642)246333, 248665
Department Of Explosive (CCoE)			
31	Chief Controller- Explosives	Nagpur	(0712)2510103
32	Jt.Chief Cont. Explosive	Mumbai	(022)27575967
33	Dy.Chief Controller Explosive	Vadodara	(0265)2421299
Department Of Environment & Forest (DoEF)			
34	Director (Env.)	Ahmedabad	(079)23252154, 23251062

ANNEXURE-29

NOMINATED PERSONS TO DECLARED MAJOR EMERGENCY

Sr. No.	Name of the plant/ location	Name & designation of the nominated persons to declare major emergency	Duty of designation given if any under the on-site/off-site emergency plan	Residence	
				Phone No.	Address
1	2	3	4	6	7
1	ADM	Mr. Rajesh Mistry	SMC	9099057365	A-1,Pavanpuri-1,Narmada Spinning Mill Compound, Bholav, Bharuch, Pin-392001
2	ADM	Mr. Bhavesh Pancholi	SMC	9909996023	A2/52, Narayan Garden, Nr. Shravan School, Bharuch-392001

ANNEXURE-30

A FORM TO RECORD EMERGENCY TELEPHONE CALLS

PART A: ESSENTIAL INFORMATION		
Details of call as reported		
Caller's Name & designation _____ Date _____ Time _____ phone No. _____		
Purpose of call Is any particular advice required immediately?		
Name of Chemicals To be spelt out clearly		
Brief description of incident Fire / Explosion / Liquid Spill / Gas release Quantity involved Packaging / storing / handling / using details Location of incident Cause, if known, in brief		
PART B: INFORMATION TO BE OBTAINED IF READILY AVAILABLE		
Has anyone been injured?	Yes / No	If yes, how many?
Affected by chemicals?	Yes / No	If yes, how many?
What first-aid had been given?		
Has anyone been taken to hospital? If yes, address of the hospital		Yes / No
Is the road blocked? Closed to		Yes / No

Who owns the chemicals? Has the owner been informed? Yes / No
If caused by vehicle, Vehicle Number _____ Name & address of the Owner_____ Has the owner been informed? Yes / No To whom was the load consigned?

ANNEXURE-31

STATUTORY COMMUNCATION

Statutory information to be given to:	**Periodicity of such information to be given (statutory or self-decided)**	**Date of last information given**	**Suggestions received if any**
1	2	3	5
The workers	Regular through training, leaflets etc.	Regular training and information	--
The general public & neighboring firms	As & when required		--
District Emergency Authority	As & when asked for	--	--
Factory Inspectorate	a) Prior approval for Construction, production b) During expansion c) Change of process/ Organization structure d) Updated information As & When Required	As & When Required	--

ANNEXURE-32

SEPERATION DISTANCES

Sr. No.	Substance	Tank / Storage shed		Separation Distance (M)
		Capacity (T)	Nos.	
1	2	3	4	5
1	Hazardous Waste shed	10000 m.t	3.0	15

ANNEXURE-33

EMERGENCY INSTRUCTION BOOKLET

Sr. No.	Role to be played as	His emergency duties / functions	Also refer	He should report at
1	2	3	4	5
1	Incident Controller	1. Assess the scale of the emergency and decide if a major emergency exists or is likely. On his decision, he will activate the on-site emergency plan and if necessary the off-site emergency plan 2. Assume the duties of the Site Main Controller pending the latter's arrival. For this purpose, he will depute his deputy on the scene and he will go to the control center. Particularly he will- a) Direct the shutting down and evacuation of the plant and areas likely to be affected by the emergency. b) Ensure that the outside emergency services, including mutual aid, have been called in. c) Ensure that key personnel have been called in. 3. Direct all operations within the affected area with the following priorities: a) Secure the safety of the personnel. b) Minimize damage to plant, property and the environment. c) Minimize loss of material. 4. Direct rescue and firefighting operations until the arrival of	Emergency Duty Card	The Incident Place

		the outside Fire Brigade, when he will relinquish control to the Fire Brigade. 5. Search for casualties. 6. Evacuate non-essential workers to the assembly points. 7. Set up a communications point and establish radio/telephone/messenger contact as appropriate with the Emergency Control Centre. 8. Give advice and information as requested to the Head of the Fire Brigade and other Emergency Services. 9. Brief the site main controller and keep informed of developments. 10. Preserve evidences that will be necessary for subsequent inquiry in to the cause of the emergency and concluding preventive measures.		
2	Site Main Controller	1. Relieve the incident controller of responsibility for overall main control. 2. On consultation with the incident controller decide whether major emergency exist and on declaration of a major emergency, ensure that the outside emergency services and mutual help are called, the off-site plan activated and if necessary, nearby factories and population are informed. 3. Ensure that the key personnel are called in. 4. Exercise direct operational control of those parts of the works outside the affected area. 5. Continually review and assess possible developments to	Emergency Duty Card	Emergency Control Center

		determine the most probable course of events. 6. Direct the safe close down and evacuation of plants in consultation with the incident controller and key personnel. If necessary, arrange for evacuation of neighboring population. 7. Ensure that casualties are receiving adequate attention. Arrange for hospitalization of victims and additional help, if required. Ensure that the relatives are advised. 8. Inform and communicate with the chief officers of the fire and police service. District emergency authority and with the factory inspectorate and experts on health and safety. Provide advice on possible effects on areas outside the factory. 9. In case of prolonged emergencies involving risk to outside areas by windblown materials. Contact the local meteorological office to receive early notification of impending changes in weather conditions. 10. Ensure the accounting for personnel and rescue of missing persons. 11. Control traffic movement within the factory. 12. Arrange for a chronological record of the emergency to be maintained. 13. Where the emergency is prolonged, arrange for the relief of personnel and the provision of catering facilities. 14. Issue authorized statements to the news media. Where necessary, inform head office.		

		15. Ensure that proper consideration is given to the preservation of evidence. Arrange for photographs/videos. 16. Control rehabilitation of affected areas and victims on cessation of the emergency. Do not restart the plant unless it is ensured safe to start and cleared by authorities.		
3	Key Personnel	As necessary, they will decide the actions needed to shut down plants, evacuate personnel, carry out emergency engineering work, arrange for supplies of equipment, utilities (fuel, water, power, etc.) carry out atmospheric tests, provide catering facilities, liaise with police, fire brigade, emergency planning authority, factory inspectorate, hospitals, neighboring industries find population, assembly points, outside shelters, mutual aid centers, relatives of casualties, press and so on, under the direction of the site main controller.	Emergency Duty Card	Emergency Control Center
4	Essential workers	1. Firefighting, gas leak and spill control till a fire brigade takes the charge. 2. To help to the fire brigade and mutual aid teams, if it is so required. 3. Shutting down plant and making it safe. 4. Emergency engineering work e.g. isolating equipment, materials, process, providing temporary by-pass lines, safe transfer of material, urgent repairing or replacement, electrical work etc. 5. Provision of emergency power, water, lighting, instruments, equipments, material etc. 6. Movement of equipment, special vehicle and transport to or	Emergency Duty Card	The Incident Place

		from the site of the incident. 7. Search evacuation, rescue, and welfare. 8. First-aid and medical help. 9. Moving tankers or other vehicles from areas of risk. 10. Carrying out atmospheric test and pollution control. 11. Manning of assembly points to record the arrival of evacuated personnel. Manning for outside shelters and welfare of evacuated persons there. 12. Assistance at casualties' reception areas to record details of casualties. 13. Assistance at communication centers to handle outgoing and incoming calls and to act as messengers if necessary. 14. Manning of works entrances in liaison with the police to direct emergency vehicles entering the work, to control traffic leaving the works and to turn away or make alternative safe arrangements for visitors, contractors and other traffic arriving at the works. 15. Informing surrounding factories and the public as directed by the site main controller. 16. Any special help required.		

OIC

August 26, 2022

To,

Dy. Director of Industrial Safety and Health,
2nd Floor, Multi-storied Building,
Bharuch

Subject: Submission of Mock Drill report

Respected Sir,

Herewith, we are submitting the "Mock Drill report" which was carried out on 15th June-2022.

This is for your kind information & record please.

Thanking You.

For, BEIL Infrastructure Limited - Dahej

26/8/2022

Mr. Rajesh Mistry
(Plant Head)

BEIL INFRASTRUCTURE LIMITED • DAHEJ

BEIL Infrastructure Limited

(FORMERLY KNOWN AS BHARUCH ENVIRO INFRASTRUCTURE LIMITED)

DISASTER MANAGEMENT PLAN

Update On February, 2020

Plot No # D-43, GIDC Industrial Estate, Dahej – 392130

Ta – Vagra, Dist – Bharuch, Gujarat

CONTENTS

FOREWARD

Schedule 8-A of Sub rule 68-J-(12) (1) Gujarat Factory Rule 1963 & Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996 requires that every occupier of a TSDF shall prepare an ON-SITE emergency plan and detailed disaster control measures including linkage with off Site Emergency Management for the factory. As per the hazardous waste (Management, Handling and Tran boundary Movement) Third Amendment Rules, 2010 of Environment Protection Act, 1986, hazardous waste generated by industries has to be collected, transported, treated and disposed in a properly designed TSDF. Accordingly, the ON-SITE and OFF-SITE emergency plan with details of disaster control measures has been prepared for the employees and general public living in the vicinity of the factory. This plan gives the safety measures to be taken in the event of any accident or disaster happening at the plant.

The provisions of the following guidelines given by the Factory Inspectorate office are also kept in mind while preparing this plan.

- Status relating to risk assessment and environment impact in case of Fire, Explosion and the measures taken for prevention of such accident.
- Probabilities of possible hazard due to the failure of provided control measures and equipment such as safety valve, pressure gauge, temperature indicator etc. at different stages of process / operations.
- Provisions for all facilities and procedures for immediate control to minimize the effect of such probabilities.
- Arrangement with mutual aid agencies.
- Arrangement for informing workers through emergency alarm and public in vicinity and surrounding factories through telephone and loud speakers in case of emergency at the factory.
- Arrangement for evacuation of persons likely to be affected due to emergency.
- Arrangement for transporting affected persons to the hospital and medical center through Car/Ambulance.
- Arrangement for necessary treatment and availability of antidotes at hospitals

and at medical center.

- Organization Chart for fixation of responsibilities of managers, officers, workers at different stages for handling emergency due to fire, explosion etc.
- Details regarding alert system like emergency detection and alarm.
- Submission of the map of the emergency facilities such as hospitals, police station, and fire services etc.
- Notification of place of gathering of workers and staff at the time of emergency.
- Information in detail, regarding any disaster, which might have occurred in factory.
- Provisions of main control for 24 hours to use at the time of emergency.
- Arrangement regarding maintenance of different equipments, control measures and safe procedure of work so that they shall work effectively.
- A statement of all possible source of accidents involving fire, explosion, and plan of showing the place of above accidents with the facilities to control the emergency near the place and at the control place.
- OFF-SITE emergency services that is a link between ON-Site and OFF-SITE Emergency Plan. While preparing this plan, the following documents have been referred and thankful to those for their contribution.

CHAPTER- 1: ORGANIZATION INFORMATION

Full Name & Address of the company:	**M/s. BEIL INFRASTRUCTURE LIMITED** **(Formerly known as BHARUCH ENVIRO INFRASTRUCTURE LTD.)** Plot No D-43,GIDC Estate,Dahej-Amod Road Dahej-392130		
Contact No.: (O): 02641291129 **Factory: 02641291129**		**E-Mail: mistryrg@beil.co.in**	
Telex No.: ----------		**Fax No. : ----**	
Full Name & Address of the occupier :	**Mr. Ashok.A. Punjwani** 5, Shivranjni Society,Near Navsarjan Co-Operative Bank Ltd,GIDC,Ankleshwaqr,Dist-Bharuch	**Contact No:** **Off.** **02641291129**	**Residence** **9909994902**
Full Name & Address of the Manager :	**Mr.Rajesh Mistry** A-1, Pavanpuri 1 Bholav, Bharuch-392001	**Contact No:** **Off.** **9099057365**	**Residence** **9099057365**

Name of the shift	**Maximum workers at a time**			
	Male	**Female**	**Total**	
General (G)	60	01	61	**“workers” include all employees contract workers, trainees, apprentices, etc.**
First (A)	43	**Nil**	43	
Second (B)	11	**Nil**	11	
Third (C)	20	**Nil**	20	
Total Workers	134	1	135	

First person to be contacted in the case of emergency:

Name of the shift	**First person to be contacted in the case of emergency**		
	Name & Designation	**Place of availability**	**Contact No.**
General (G)	**Mr. Rajesh Mistry**	**Office Building**	**7567663153**
General (G)	**Mr. Rajesh Mistry**	**Office Building**	**9099057365**
On Holiday	**Mr. Bhavesh Pancholi**	**Office Building**	**9909996023**

CHAPTER- 2: SITE DEMOGRAPHY

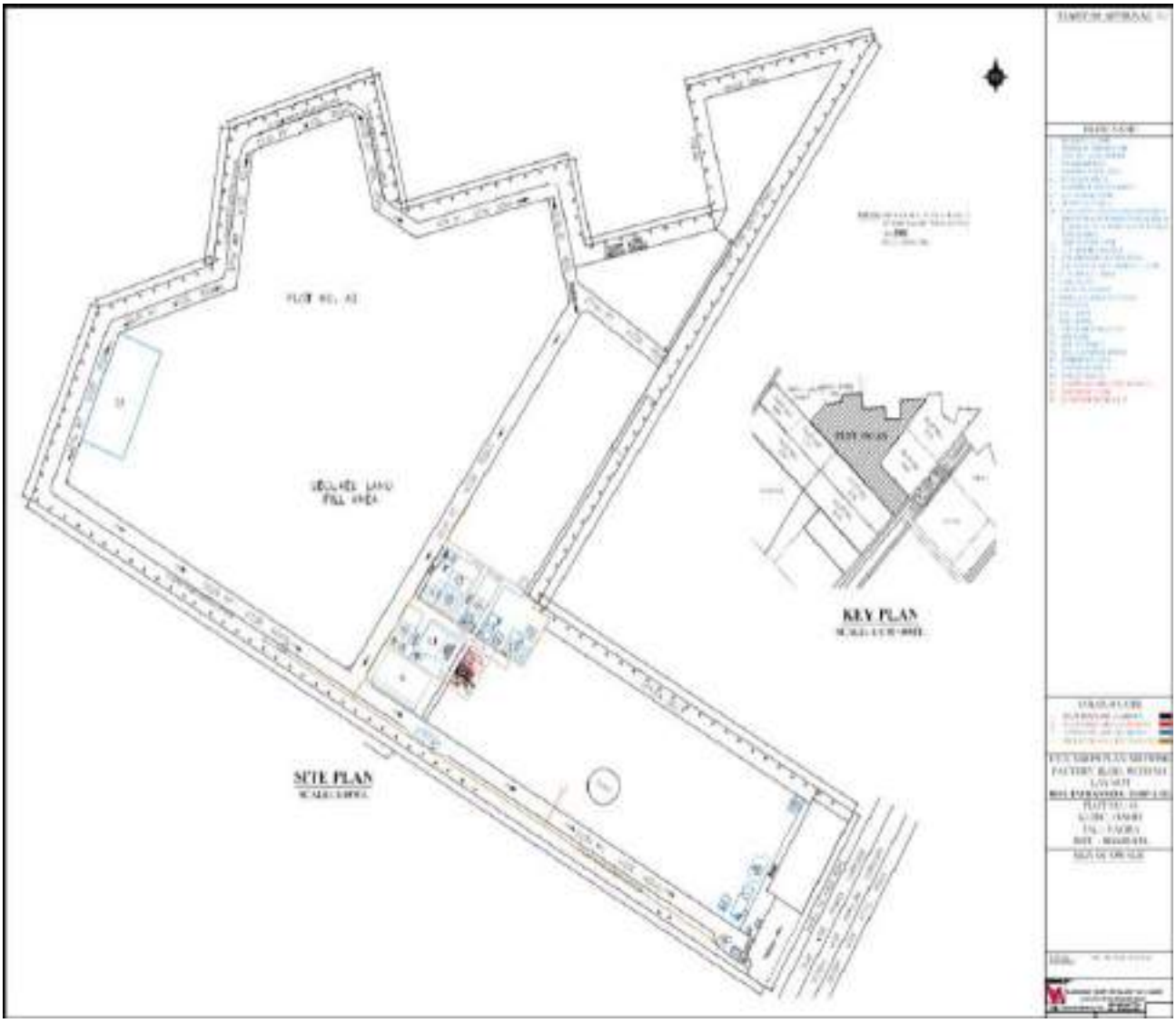
2.1 DETAILS OF COMPANY:

M/s. BEIL Infrastructure Limited Dahej, a company incorporated under companies act, 1956, is promoted by various industries in Bharuch district. The main promoter is UPL Ltd group of companies. UPL group is involved in manufacturing Agrochemicals, Industrial &, Specialty Chemicals.

BEIL is pioneer in Hazardous waste management in India. BEIL, has disposed 20 Lacs MT Solid Waste during its 17 years of operation at Ankleshwar Site. BEIL is operating the TSDF Facility as per the Guidelines published by Central Pollution Control Board (CPCB). BEIL have implemented Environmental Management System Standards ISO 14001 and Occupational Health & Safety Assessment Standards OHSAS 18001. BEIL laboratory have got NABL and MOEF Accreditation.

Adjoining Properties:	
North side	M/s Tegros chemical ltd & M/S Indian Peroxide Limited
East side	Dahej-Aamod road
West side	Sea
South side	M/s Bharat Rasayan limited

2.2 SITE PLAN:



- **Assembly Points**

Sr. No.	Assembly Point
01	Near Admin Office
02	Near Tanker De Contamination Shed

CHAPTER- 3: INFORMATION ON THE PRELIMINARY HAZARD ANALYSIS

Identification, analysis, assessment of hazards and risk provide vital information to risk management. Objective of this plan is to assess the risk and to provide guidelines for facing and controlling the emergency.

This Chapter contains the information of Process, possible accidents, hazards and Safety relevant components.

[A] TSDF: Landfill Site:

Operational Methodology Of TSDF: Land Fill Site:

1) Waste Acceptance Criteria

- The generator should have Authorization for disposal as per Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008.
- At the time of taking membership, the company is doing complete analysis of solid waste and the same sample is preserved for further physical verification.
- As the dumper comes to BEIL, it is weighed and, samples are taken from 3 different location and composite sample is made and analyzed for following quick parameters:
    - pH
    - PFLT test for moisture content
    - Odour
    - Flammability
    - Compatibility
    - Physical state
    - LRT
    - Annealing loss

Only if the sample passes through above quick tests it is allowed to enter the disposal site.

2) Manifest System

The TSDF is having manifest system as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008. Manifests are six copies in different colors. However, GPCB has introduced an online manifest system for waste acceptance. At present, the online system is being followed.

3) Transportation of Hazardous Solid Waste from Generation Site to TSDF

Transportation of hazardous solid waste is done as per guidelines of CPCB. The TSDF is having (authorized) approved transporter with dedicated vehicles (Hydraulic) for transportation of solid waste. All the vehicles are having the

nameplate with details of company's name, address, phone no., etc. During transportation containers are closed from all sides and covered from top.

4) Weighing and Sampling of Waste

As the dumper enters BEIL weighbridge, samples are taken from three different locations and a composite sample is made. Once the quick test is passed, truck is allowed to enter the premises. If any truck does not meet the Hazardous solid waste inlet specification, it is returned back to member industry for necessary treatment.

5) Operation of TSDF Disposal area

The dumper carrying the hazardous waste is first subjected to quick tests and if it is approved by QA, the hydraulic dumpers are sent for unloading in landfill area. The operation of land filling area is cell wise.

6) Ground Water Sampling and Analysis

The TSDF has provided monitoring wells at the site for ground water monitoring. The bore wells are provided at the upstream & downstream. Additional wells will be provided step by step as required. The monitoring parameters are analyzed as per the guidelines given by the CPCB. The TSDF has provided laboratory facility for analysis of bore well water. Monitoring is done once in Month.

7) Leachate Management System

The TSDF has cell-wise leachate collection wells. Leachate is pumped from leachate wells to leachate storage tank and sent to the M/s. BEIL, Ankleshwar for treatment and disposal. The company is using manifest for leachate transportation.

8) Gaseous Emission Management

The company will provide air vents at the closed portion of the land fill. The company will carry out regular monitoring of these vents for VOC & HC though external party.

9) Closure and post closure maintenance details for closed cells including vegetative stabilization:

The unit will provide coverage system with vegetative cover area as per CPCB criteria for closed cells. The closed portion will be given proper landscape.

BEIL has provided storage shade on operational cell during monsoon period. The main operational site is kept covered by tarpaulin during monsoon.

10) Surface Water Drainage System

The storm water drainage system is provided at the site. The surface water generated during raining season is collected through storm water system and disposed off.

11) Site Infrastructure:

(a) The TSDF has established administrative and site control office with latest equipment like computers, cell phones & computerized weigh-bridge, printers, xerox machine etc.
(b) The site is provided with a well-equipped laboratory. For sampling and analysis of solid wastes, air, leachate and observation bore well water. The laboratory is accredited by national Accreditation Board for Analytical Laboratory (NABL).
(c) Stabilization facility is provided for wastes that require treatment/stabilization before disposal in landfill.
(d) Green belt details:

The TSDF has developed green belt surrounding the site.

12) Safety and pollution control i.e. traffic, noise, odour, litter, bird control, vermin and other pests, dust, mud on road, landfill fire control, landfill safety aspects.

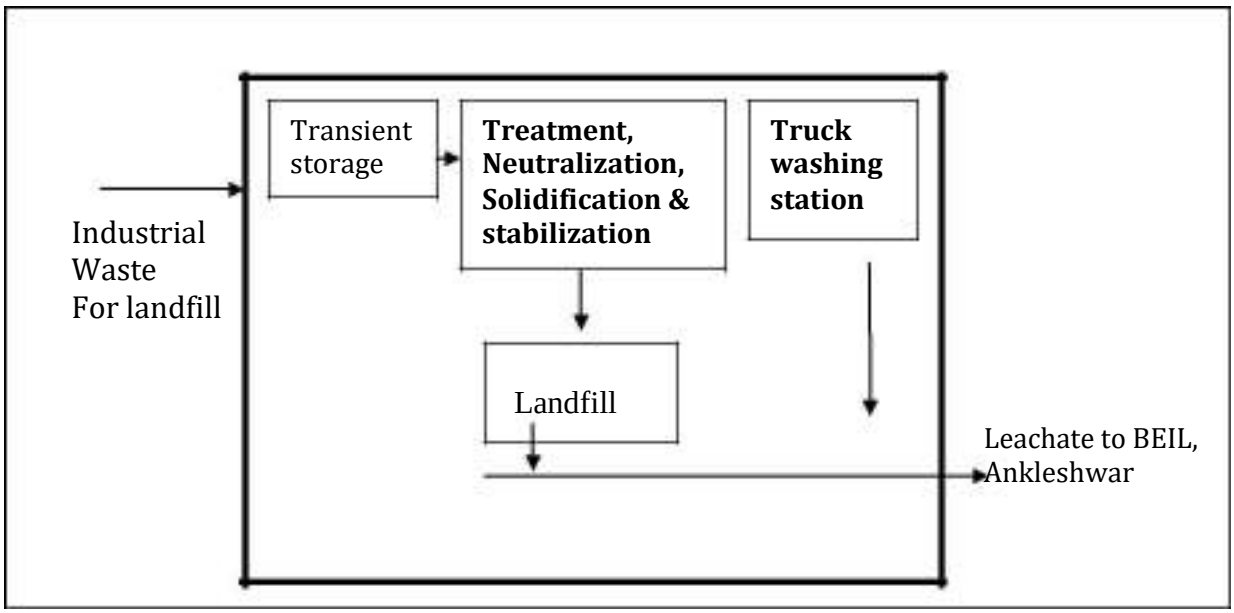
- Usage of PPE's like helmet, safety shoes, goggles, gum boots, glove, mask etc. by the person-working at site.
- Avoiding manual operation. The company is using hydraulic dumpers for transportation of wastes that wastes that requires no manual unloading of wastes.
- The company is utilizing bulldozers for separating and compacting the wastes
- The company is checking the ignitability and compatibility of wastes before dumping the wastes to the site. It helps in fire control and any reactivity after disposal.
- Odour control is being done with control of the characteristics of wastes being received.
- The used area is covered with soil, which helps in control of vermin / insect / pests etc.
- Drivers are given training for handling hazardous wastes.
- Routine inspection of vehicles is done.
- On site emergency plan is prepared.

13) Closure and Post Closure Plan:

The closed portion will be given proper landscape. The Company will provide coverage system as per the CPCB Guidelines.

A post closure maintenance fund is separately maintained to take care of operations after capping of the site.

1. Flow diagram of landfill facility

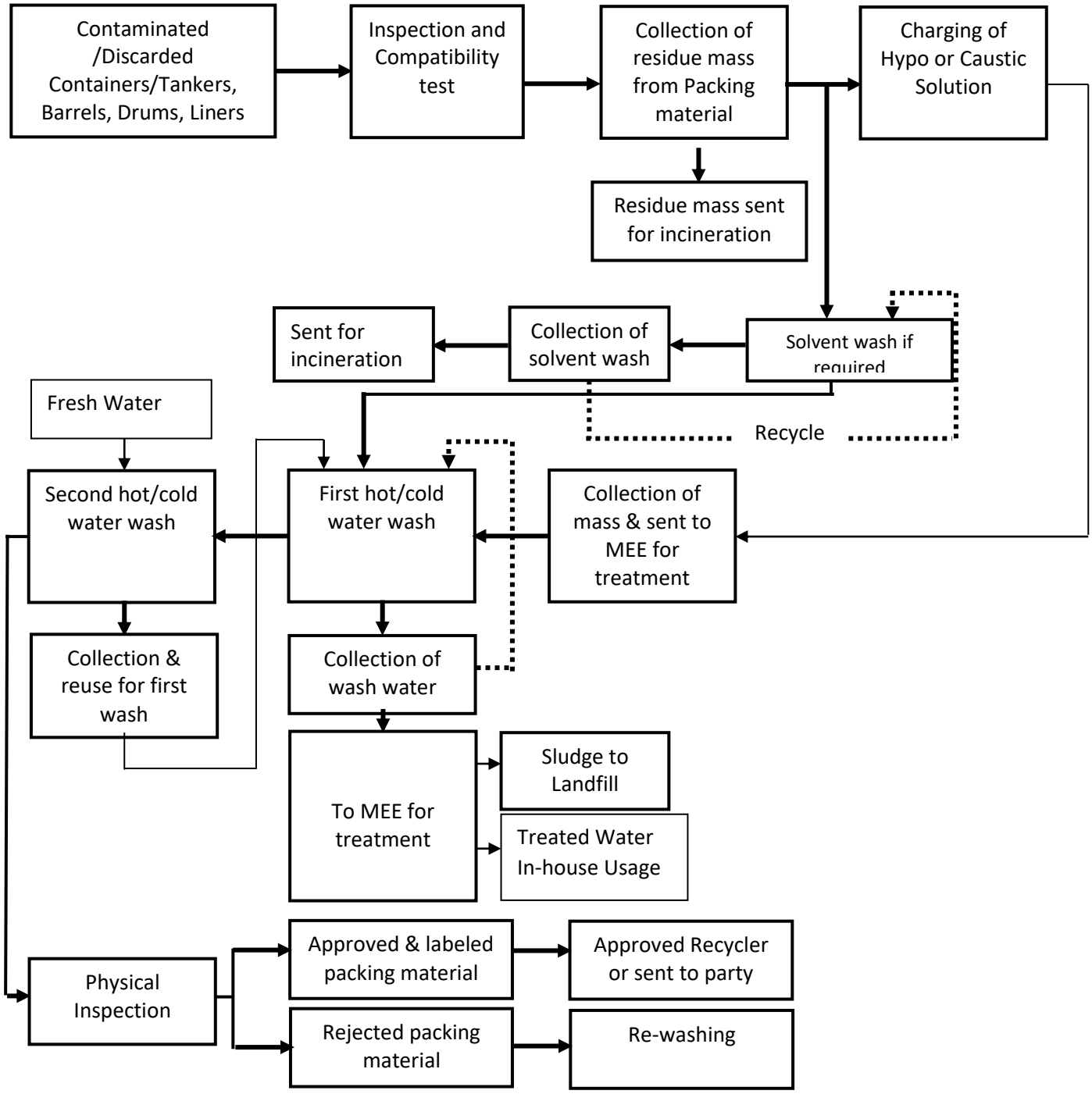


[B] Common Facility for De-contamination & De-toxification of Packing Material (drum, Carboy, liners etc.) & Tanker

Received Contaminated packing material is first inspected; damaged packing material is sorted out. Compatibility test is carried out to decide washing media & avoid unexpected events. Residue mass from the packing material is collected separately & sent for incineration at BEIL Ankleshwar. Hypo or caustic solution is charged into packing material; packing material is rolled for proper washing. Wash water is collected & sent to MEE plant for treatment. Then Packing material is rinsed with hot/cold water, wash water is re-circulated till the pH is neutral, then it is collected & sent to MEE plant for treatment. Second hot/cold water wash is given; wash water is collected & reused for first water wash. After completion of above process, in-house & third party physical inspection is carried out. Passed packing material is approved & labeled. Rejected packing material is sent for re-washing.

Solvent wash is given if it is required. Solvent wash water is collected in a separate tank/sump & reused/sent at BEIL Ankleshwar for incineration. After solvent wash; same procedure is followed as stated above.

Flow diagram of Common Facility for De-contamination & De-toxification of Packing Material (drum, Carboy, liners etc.)



Same procedure is followed for the De-contamination & De-toxification of Tanker as stated above.

[C] Multiple Effect Evaporation System:

The Multiple Effect Evaporation System having 3 stages with striper and centrifuge have capacity of 15TPH. Steam generated from boiler is taken for evaporation. The system can evaporate effluent with high dissolved solids and the salt can be collected from the last stage.

In this system the leachate generated from landfill, effluent generated from Common Facility for De-contamination & De-toxification of Packing Material/Tanker is treated. The generated condensate is reused/used in gardening. The generated salt from MEE plant is send for disposal at secured landfill of BEIL.

Process description of evaporation system:

The feed pump shall pump the liquid effluent to Calandria C1 through series of preheater. The preheater preheats the effluent from ambient temperature to approx 85 – 90 deg C. So that the vaporization start taking place as it enters in Calandria C1.

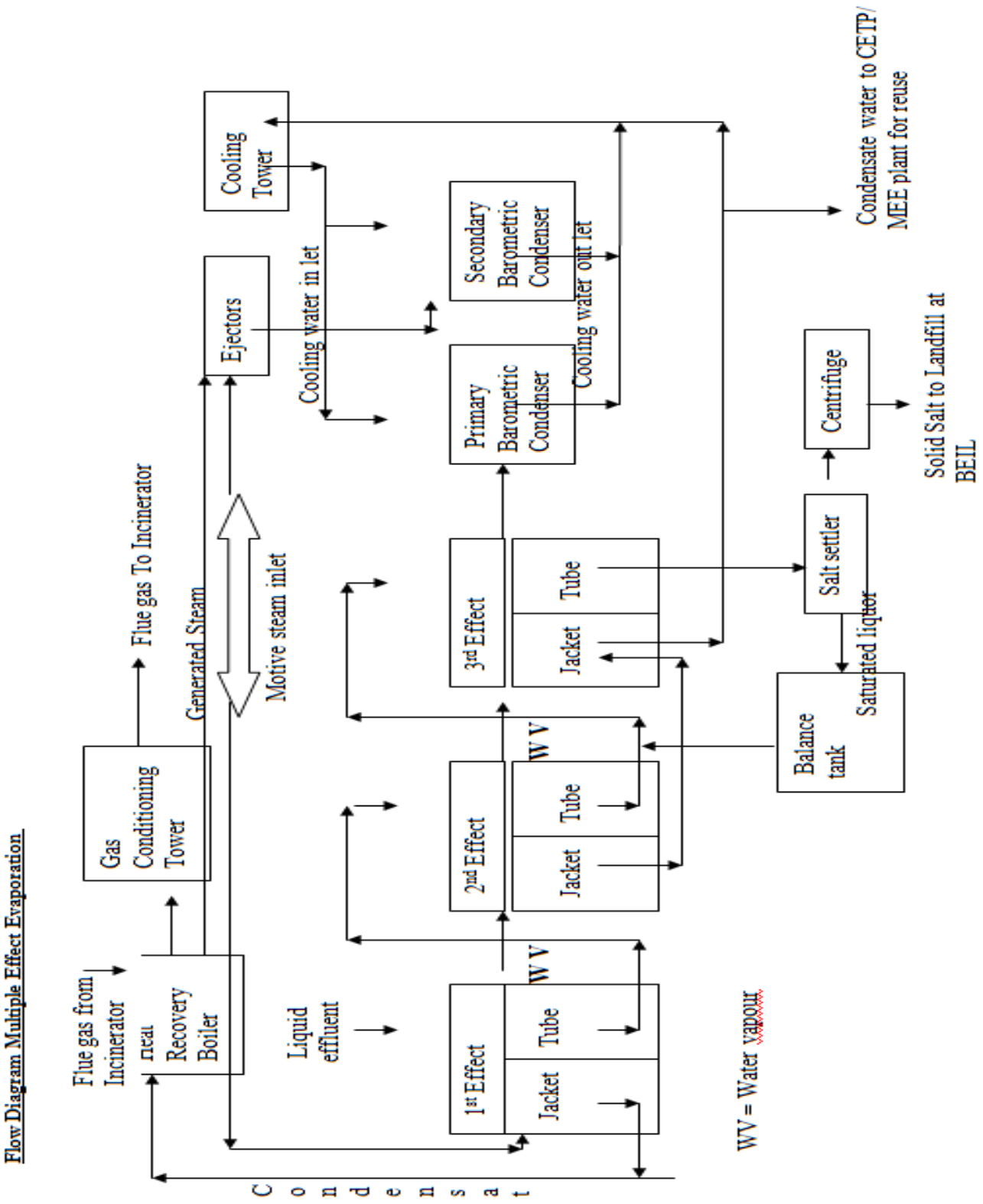
In Calandria C1 preheated effluent shall be recirculated in tubes with high velocity. To enhance the evaporation process under vacuum and steam is supplied on jacket side of Calandria C1 . Evaporation process will take place in vapour separator. Liquid will continuously recalculated through the tubes of Calandria, where sensible heat transfer will take place between steam and effluent flowing through the tubes. Effluent is allowed to flash in the vapour separator under vacuum. This flash vapour will be utilized for evaporation in second effect. Concentrated liquor shall send to suction of recirculation pump 02 by gravity from overflow of vapour separator-1.

The Vapour shall giveaway the heat to the concentrated mother liquor flowing in tube of Calandria C2. The forced circulation Calandria C1& C2 will concentrate the feed effluent below the saturation limit so that crystallization does not take place.

The water vapour generated from Vapour separator 03 is finally condensed in direct contact type primary condenser. The concentrated salt slurry shall be transferred to salt settler where salt are settled at bottom and overflow of saturated liquid will transfer to evaporator through Balance Tank and resend to Calandria 02 and 03. Salt slurry will transfer through gravity to centrifuge from where solids are filtered out and saturated liquor send back to evaporator. Only solid from Centrifuge come out from the plant and will be sent to the Secure landfill of BEIL.

The motive steam supplies in Calandria 01. The steam shall condense in Calandria 01 and the water vapour generated in Vapour separator 01, 02 & 03 shall condense in Calandria 2 & 3 jacket shall be collected in condensate Pot. The clear water generated by Multiple Effect Evaporation Plant shall be reused in

Common Facility for De-contamination & De-toxification of Packing Material/Tanker.



[D] SPRAY DRYING PLANT:

PROCESS DESCRIPTION

1) Air is passed through a direct fired air heating system using FO/CNG and hot air is sent to drying section for drying purpose.

2) Feed is sent to atomization system for uniform atomization. Feeding is done at controlled rate.

3) The feed material and hot air come in contact with each other and drying takes place. The moisture removed from the product is carried out away by the exhaust air.

4) The exhaust gas is then passed through cyclone separator for fines recovery. The product is separated and collected at the bottom.

5) Exhaust air is further passed through an adjustable throat venture scrubber with secondary spray with droplet and swirller flusher arrangement.

6) Clean air is then exhausted to the atmosphere.

7) The entire operation of the plant is controlled through a local operating panel.

[D] MAP+ASP/ RO PLANT:

INTRODUCTION & PROCESS DESCRIPTION

Bharuch Enviro Infrastructure Limited (BEIL) Dahej have installed Common Triple Effect Evaporator (MEE) with Spray Dryer to provide facility for treatment for high COD/High TDS effluent generated by member industries, which are not being treated by conventional treatment. During operation we observed that MEE condensate contains organic impurities and cannot be used for in house industrial application. Hence after study we propose the scheme of condensate treatment by biological treatment followed by Reverse Osmosis. The treated water will be used for floor washing, Drum/Tankers washing, Toilet flush water and Gardening.

The Condensate is collected at site in 600 m3 RCC tank having four days residence time to equalise the load. Since condensate water contain high Ammoniacal Nitrogen, Magnesium Ammonium Phosphate (MAP) treatment is planned before secondary treatment.

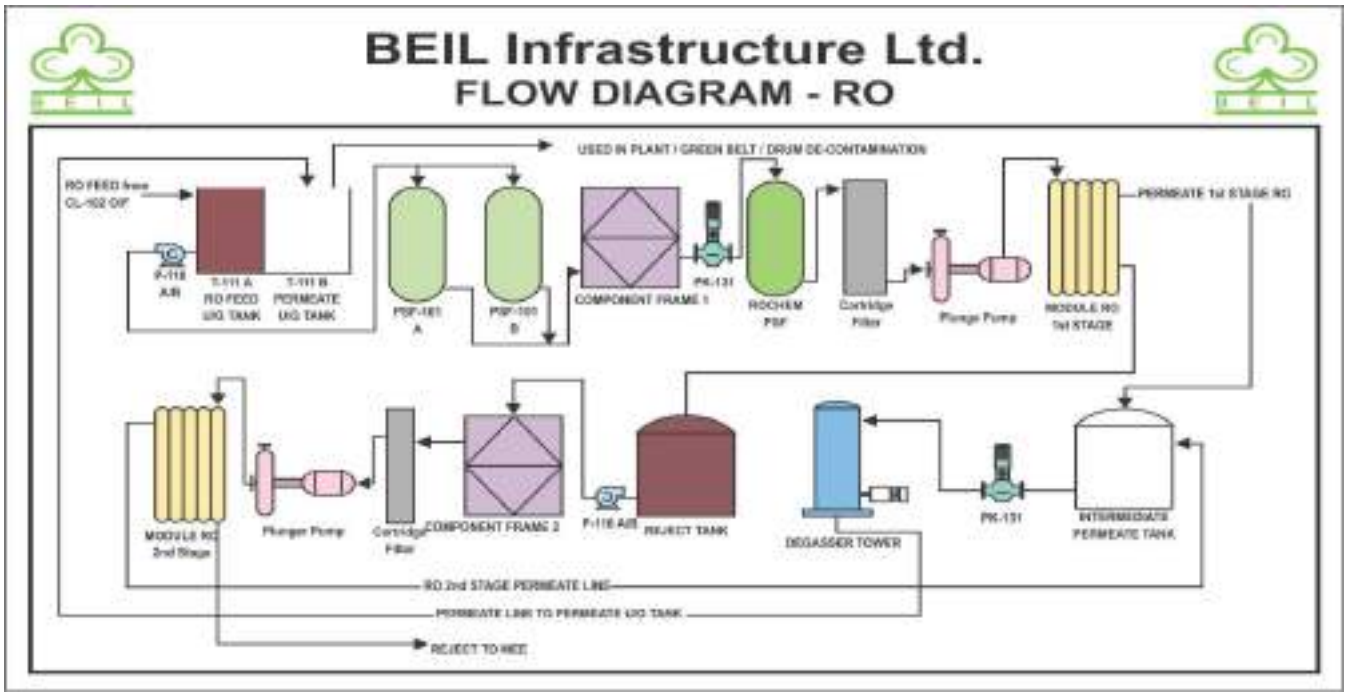
After MAP, two stage activated sludge process is proposed. Overflow from ASP-I will go to secondary clarifier-I and overflow from secondary clarifier-1 will go to ASP -2 and overflow from ASP-2 will go to secondary clarifier-2 The underflow from secondary clarifier -1 and clarifier-2 will be recycled back to ASP-1, ASP-2 and part of this will be disposed to secured land filled site after dewatering. Overflow from Sec-2 will go to collection tank for further treatment with pressure sand filter, activated carbon filter and RO.

The treatment plant has following treatment units:

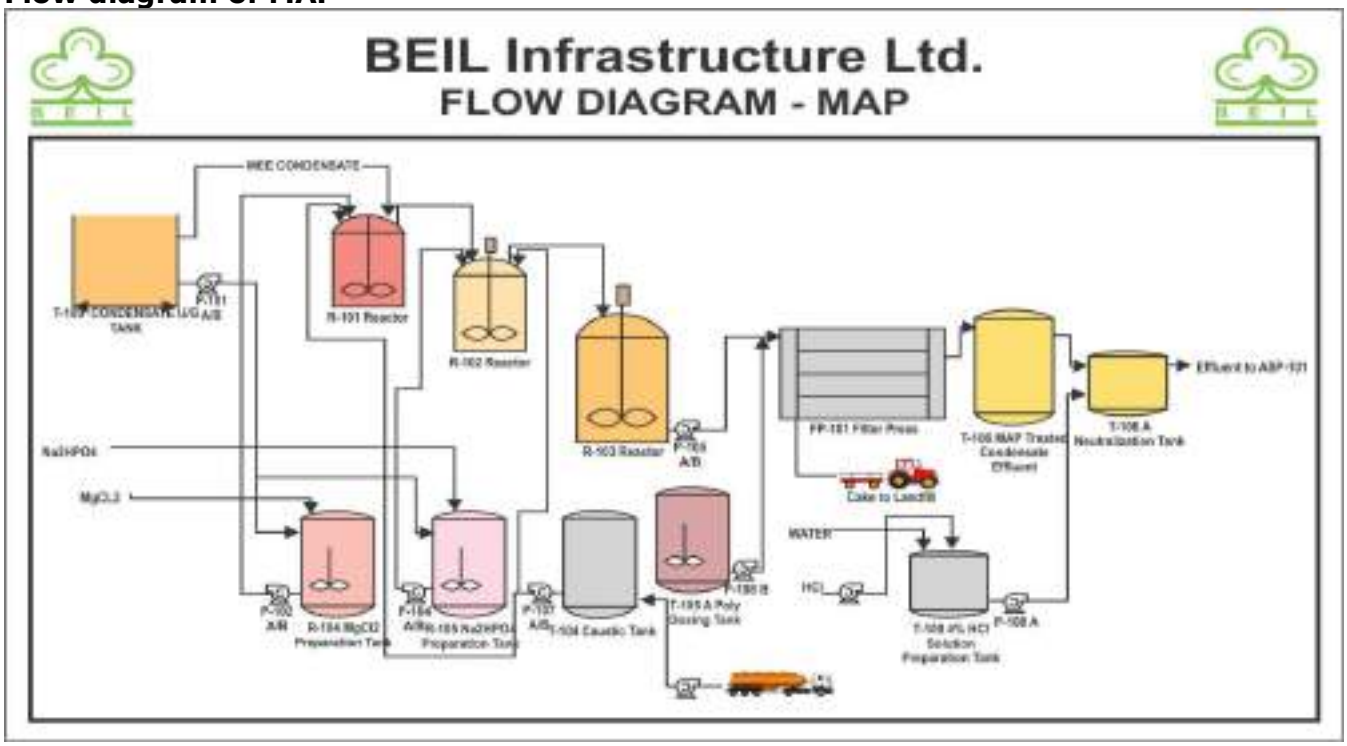
1. RCC hold tank for condensate
2. MAP treatment Plant.
3. ASP-I
4. ASP-II
5. Secondary clarifier-I
6. Secondary clarifier-II
7. Pressure sand filter

8. Treated effluent sump
9. Nutrient dosing tanks
10. Sludge dewatering system
11. RO

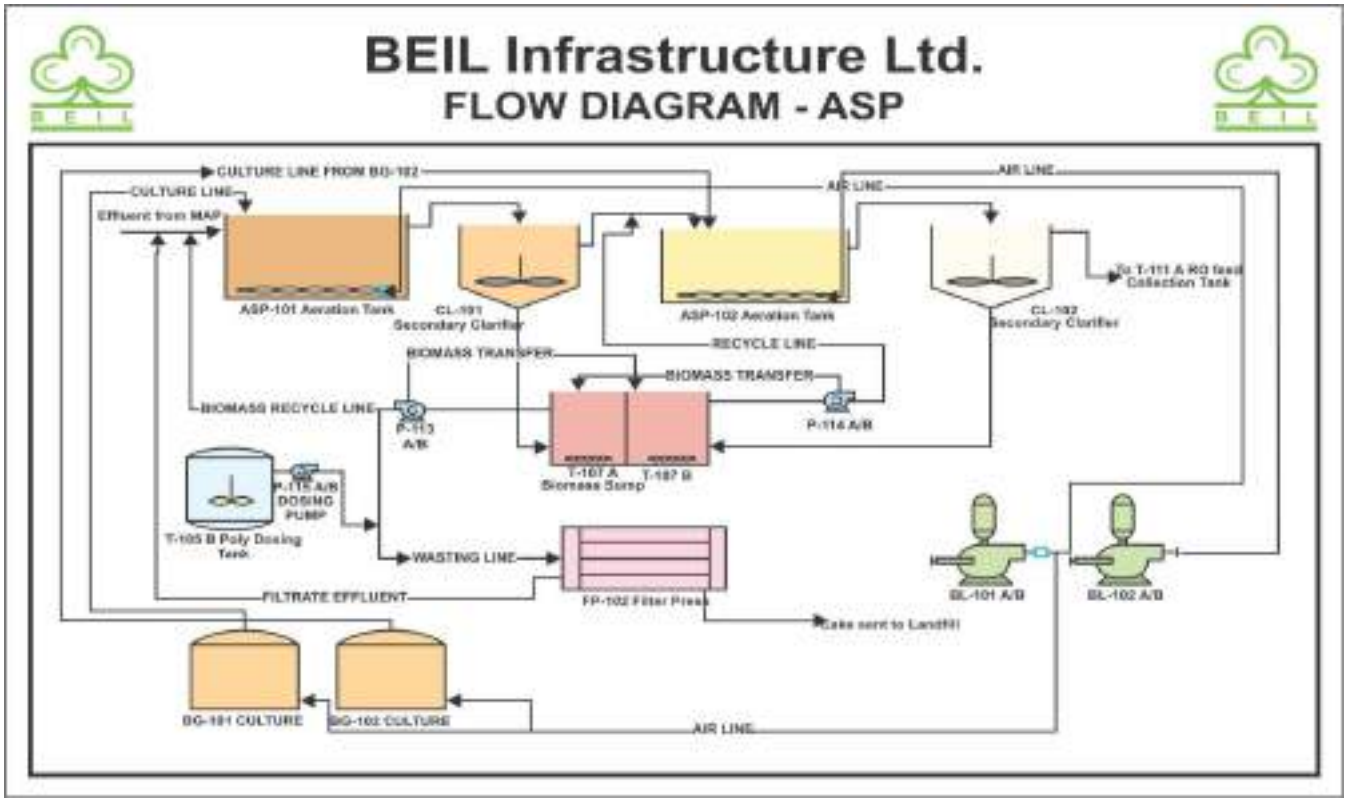
Flow diagram of RO PLANT



Flow diagram of MAP



Flow diagram of ASP



3.1 TYPES OF ACCIDENT

a) Fire & Explosion- unforeseen event in case of unknown waste only

b) Toxic gas release -unforeseen event in case of unknown waste only

c) Helipad area

3.2 SYSTEM ELEMENTS OR EVENT THAT CAN LEAD A MAJOR ACCIDENT

a) Leakage due to Tanker valve failure- particularly fuel tanker

b) Gasket Failure, Pipeline punctured

c) Bomb threat, Terrorist attack, natural disaster, rain, flood, earth quake, storm & cyclone.

3.3 MAJOR HAZARDS IN STORAGE AREAS

a) Hot work

b) Lightning

c) Collision of vehicles with each other or with structures

3.4 SAFETY RELEVANT COMPONENTS

a) SCBA (Self Contained Breathing Apparatus)

b) Personal protective equipment

c) Fire Fighting Extinguisher- given in Chapter-12

d) Fire Hydrant System

e) Mock drill of emergency preparedness plan

3.5 OTHER HAZARDS AND CONTROLS:

Hazards, which are not classified as storage hazards in Chapter-4, Like hazards due to spills from Trucks & tankers, structural collapse, bad housekeeping and hazards from outside or likely to come from neighbouring plants, tank farms, etc. are given below :

3.5.1 OTHER HAZARDS & CONTROLS

Sr. No.	Name of the possible hazard or emergency	Control measures provided	In charge person	
			Name & Designation	Contact No.
1	Short circuit in electrical equipment due to overload, bad & poor maintenance	Carried out maintenance regularly, Regular maintenance of electrical system and earth pits	Mr. Rajesh Mistry	9099057365
2	Natural calamities like earthquake, tornado, lightening etc.	Stability certificates, Lightening arrestors		
3	Catastrophic failure of boiler due to failure of safety valve, corrosion of critical parts of boiler	Carried out maintenance regularly by trained & qualified person.		

CHAPTER- 4: DESCRIPTION OF HAZARDOUS CHEMICALS AT PLANT SITE

4.1 STORAGE HAZARDS CHEMICALS: (QUANTITIES AND TOXICOLOGICAL DATA):

Sr. No.	Name of the Hazardous Chemical	Quantity that Can stored	Place of Storage	State of Pressure & Temperatures	Types of possible hazards(Fire, explosion, toxic)	Control Measures	In-charge Person Name & & Contact No.
1	2	3	4	5	6	7	8
1	Bentonite Powder	250 MT	Storage shed	Atm & Amb.	Non-Toxic	Use pf PPEs	Mr. Rajesh Mistry 9099057365
2	Cement	2000 Bags	Storage shed	Atm & Amb.	Non-Toxic		
3	Lime	50 MT	Storage shed	Atm & Amb.	Non-Toxic		
4	Fly ash	250 MT	Storage shed	Atm & Amb.	Non-Toxic		
5	Caustic Powder	1200 Kg	Drum-Decontamination Shed	Atm & Amb.	Non-Toxic		

4.2 PROCESS / OPERATION HAZARD:

Bharuch Enviro Infrastructure is having two main facilities first one is common hazardous waste treatment, storage and disposal facility (Landfill of Hazardous waste) and second one is MEE and storages of Hazardous waste.

As such, No major process/operational hazards exists.

CHAPTER-5: MAXIMUM CREDIBLE ACCIDENT SCENARIO & CONSEQUENCES ANALYSIS

5.1 INTRODUCTION

Maximum credible accident scenario & consequences analysis involves the identification and quantification of the various hazards (unsafe conditions) & their consequences. This requires a thorough knowledge of probability of failure, credible accident scenario etc. Much of this information is difficult to get or generate. Consequently, the Consequence analysis is often confined to maximum credible accident studies. It provides basis for preparation of on-site and off-site emergency plan and also to incorporate safety measures.

5.2 MAXIMUM CREDIBLE ACCIDENT (MCA)

A Maximum Credible Accident (MCA) is an accident with maximum damage potential, which is believed to be credible in a hazardous installation.

There will not be any hazardous chemicals to be used in proposed project activity. The general chemicals to be stored, transported, handled and utilized within the plot area are summarized in the Table-5.1.

TABLE-5.1

STORAGE and handling DETAILS of hazardous chemicals

Sr. No.	CHEMICALS/ MATERIALS
1	Bentonite Powder
2	Cement
3	Lime
4	Fly Ash
5	Caustic Powder

- This material handling (leveling and shifting) by Truck and Dozzer.

The Following maximum credible accident scenarios may occur in Hazardous Waste Landfill (TSDF)

1. Slop Failure of landfill
2. Water accumulation at landfill due to heavy rain

1. Slop failure of Landfill

Precaution is always better than cure. To mitigate the slope failure during designing and operation of BEIL landfill the Stability analysis criteria are considered and are as follow.

Vehicle or Ramp or Slop:

(Static) F.O.S. is 5.29 (Shall be more than 3) (Dynamic F.O.S. is 4.93 (shall be more than 3) Wheel loading

Design Ratio is 5 (shall be more than 3)

M/s. KCT Consultancy Services as per CPCB criteria carried out the stability analysis for Landfill Facility.

The capping activity is also carried out immediate once the waste filling is completed in particular cell.

After completion of capping of landfill site there should not be chances of increase moisture content of filled waste, so there should not be any chances of failure of top slop.

Only present active cells are only under operation so failure of slop is also minimize. To prevent the failure of slop during the operation we are compacting it with dozer and roller. We are also making temporary bund wall to prevent any sliding of waste during operation.

Following steps to be carried out in case of slope failure:

- Implementation of onsite emergency plan
- Incoming waste to be stopped
- Slop failure may increase exposure risk to personnel and public so necessary PPEs to be provided a. d relocation and covering of waste to be performed quickly and safely
- Perform mitigating activity to limit further contamination or damage
- Work to be done round the clock
- Primary report to be prepared and reviewed at regular intervals regarding the activities of waste shifting.

II. Water accumulation in landfill due to heavy rain.

We are keeping four nos of Diesel pump of 40 m3/hr capacity and 5 Electric pump of 80 m3/hr capacity to pump out the accumulated water due to heavy rain. In the event of a landfill instability such as a slop failure the first concern is always safety, safety of site

personnel, safety of site entrants, and safety of general public. The situation will need to be assessed concisely and necessary emergency procedures and precautions implemented as quickly as possible.

Following steps to be carried out in case of water accumulation in landfill due to heavy rain:

- Implementation of onsite emergency plan
- Start pumps to pump out the water accumulated.
- Check the water quality, if contaminated send for treatment.
- Necessary PPEs like helmet, gum boot, hand gloves, rain coat to be provided. If required, relocation and covering of waste to be performed quickly and safely
- Perform mitigating activity to limit further contamination or damage
- Work to be done round the clock
- Primary report to be prepared and reviewed at regular intervals regarding the activities of waste shifting.

CHAPTER- 6: EMERGENCY MANAGEMENT PROCEDURES AND SYSTEM

6.1 WARNING ALARM AND SAFETY AND SECURITY SYSTEM

Sr. No.	Alarm points			Type of the alarm or siren	Its Period of checking	Sound difference if any			
	Location					Type of emergency	Type of alarm or Siren	Duration of sounding	Type of sound of alarm / siren
	Name & location	No. of floors	Area of each floor						
1	2	3	4	5	6	7	8	9	10
1	ADM Building	G	---	Call point, electrically operated siren	NA	Fire	Electric operated siren	10 sec. ON & 5 sec. OFF three times	Intermittent
					NA	Gas leak		15 Sec. ON & 15 Sec. OFF four times	Intermittent
					NA	All clear		1 min. on	Continuous

					Once in A week	Testing		1 Min. on every Wednesday	Continuous
2	MEE Plant	G	---	Electrically operated siren	NA	Fire	Electric operated siren	10 sec. ON & 5 sec. OFF three times	Intermittent
					NA	Gas leak		15 Sec. ON & 15 Sec. OFF four times	Intermittent
					NA	All clear		1 min. on.	Continuous
					Once in a week	Testing		1 Min. on every Wednesday	Continuous

6.1.1 SECURITY SYSTEM:

- A premise is covered by fully fencing and Main gate is secured by guard to 24 hours.
- All transport vehicles are checked at the gate for driver licenses, MSDS, Emergency Information Panel, etc.
- Security staff takes round throughout the factory for security of plant & others.

6.2 ALARM AND HAZARDS CONTROL PLANS IN LINE WITH DISASTER CONTROL AND HAZARD CONTROL PLANNING ENSURING THE NECESSARY TECHNICAL AND ORGANIZATIONAL PRECAUTIONS:

- As explained in Chapter-10.1

6.3 PRECAUTIONS IN DESIGNING OF THE FOUNDATION AND LOAD BEARING PARTS OF THE BUILDING:

- Factory premises have been approved by DISH-government of Gujarat.
- Stability in form no.1 (A) was taken from approval agency.

6.4 CONTINUOUS SURVEILLANCE OF OPERATIONS:

- It has been done by qualified and technical person on regular basis.

6.5 MAINTENANCE AND REPAIR WORKS ACCORDING TO THE GENERALLY RECOGNIZED RULES OF GOOD ENGINEERING PRACTICES:

- It has been done by qualified and technical person.

CHAPTER- 7: ROLES AND RESPONSIBILITY OF KEY PERSONNEL

DEFINITION

Emergency

An emergency is an abnormal event, which could result in danger to personnel, property and environment. It could be due to fire, Explosion, Heavy spillage of hazardous liquid, toxic gas release etc.

CLASSIFICATION OF EMERGENCIES

Emergencies can be categorized into three broad levels on the basis of seriousness and response requirements, namely:

(a) Level 1: This is an emergency or an incident which

(i) Can be effectively and safely managed and contained within the site, location or installation by the available resources;

(ii) Has no impact outside the site, location or installation.

(b) Level 2: This is an emergency or an incident which

(i) Cannot be effectively and safely managed or contained at the location or installation by available resource and additional support is alerted or required;

(ii) Is having or has the potential to have an effect beyond the site, location or installation and where external support of mutual aid partner may be involved;

(iii) Is likely to be danger to life, the environment or to industrial assets or reputation.

(c) Level 3: This is an emergency or an incident with off -site impact which could be catastrophic and is likely to affect the population, property and environment inside and outside the installation, and management and control is done by district administration. Although the Level -III emergency falls under the purview of District Authority but till they step in, it should be responsibility of the unit to manage the emergency.

Note: Level-I and Level- II shall normally be grouped as onsite emergency and Level- III as off- site emergency.

MODE OF EMERGENCY

Man made	Natural Calamities	Extraneous
Fire	Flood	Riots/Civil Disorder/Mob attack
Toxic Release	Earthquake	Terrorism
Spillage / Leakage of solid / liquid material during transportation	Cyclone	Bomb Threat
Unsafe act / condition		War
In-adequate maintenance		Food / water poisoning
Road Accident		

Some hazardous events and their control procedures are explained below in brief:

Fire

- ✓ Inform Incident Controller at once when the fire is noticed.
- ✓ Put off electrical mains for the plant where in fire is observed, connected MCC's for the plant should be put off.
- ✓ Fire lighting crew to be directed for immediate actions in the area for extinguishing the fire by use of fire extinguishers and water from fire hydrant posts.
- ✓ Simultaneously put off the source of gas emission.
- ✓ Steps to be taken to evacuate non-essential persons.
- ✓ Use of portable fire extinguishers like foam type, ABC type to be made to contain the solvent fire.
- ✓ Use of water to be made to extinguish the fire and cooling off the equipment and storage surface till the fire extinguished and equipment are cooled.
- ✓ In case of Carbon dioxide do not allow the persons to enter into the area till the time, the carbon dioxide is dispersed and diluted to avoid any suffocation.
- ✓ To put off the fire due to solvents make use of excessive foam/DCP/ABC type fire extinguishers & water fog. Make use of excessive water to cool the surface area of equipment.
- ✓ Provide gas masks, Goggles, Aprons, Helmets and safety wears to the fire fighting team.
- ✓ Keep people away from the danger area.
- ✓ Do not permit any naked flame and smoking in the area.
- ✓ Stop leakages and flush the leaky liquid, do not allow flow the leaky liquid in the drain.
- ✓ Give the first aid to the injured persons.
- ✓ If necessary induce vomiting, give artificial respiration and the effected person should be sent to the nearest doctor/clinic.
- ✓ Inform neighbouring industries and population.
- ✓ Contact fire brigade, Police, Doctor/Hospital and other authorities.
- ✓ Contact statutory authorities and give information.
- ✓ Cordoned off whole area to restrict the entry by posting security personnel.

Action after Fire is Extinguished

The Incident Controller shall…

a. Prepare immediate abnormal occurrence report as soon as possible and submit it to safety department/administration department.

b. The affected department head shall carry out an investigation and prepare a detailed report mentioning any further requirement of facilities for tackling such type of emergencies.

c. Before the plant is re-commissioned the mechanical/ electrical / instrumentation shall assess the danger to ensure equipment is safe for continued services.

d. Make a note of the fire extinguisher used and need replacement

Toxic Release

- Inform Incident Controller when vapours/gas leakage is noticed.
- Try to close the necessary valves to stop the gas leakage.
- Call the fire fighting crew to take the immediate action to curtail the gas emission and spread up by use of water or appropriate medium (water in the form of fog will reduce the concentration of acidic vapours in the surrounding).
- Start putting water on the source of leakage to minimize gas emission.
- During above operation use longer duration sets of breathing apparatus and full body protective suits apart from plastic or rubber gloves, boots and goggles.
- Keep people away from the danger area.
- Do not permit naked flame or smoking in the area.
- After stopping the leakages flush the area with ample water if the leaked material does not react with water. For the material, which reacts with water, absorb in sawdust & incinerate.
- Give the first aid to the injured persons.
- Bring the patient to the fresh air, give the victim sufficient water and milk and transport to health care facility.
- In the event of a fire, the emergency plan must be executed on a timely basis.

In case of release of liquid/vapours in high concentration the Site Main Controller will co-ordinate the activities with incident controller. Under his direction, plant will be shut down. Non-essential workers will be sent to assembly points.

Spillage of solid waste during transportation:

- On Noticing spillage, intimate safety officer and Plant Manager through Intercom/telephone system and clearly inform about
  1) The Location
  2) Manifest No.
  3) Characteristics of material
- Evacuate & barricade the Area
- Use following PPEs
  - Boiler suit

- Hand Gloves
- Apron
- Face Mask or Safety goggles
- Helmet
- Multi gas cartridge mask
- Gum Boot

➢ Check Wind Direction & monitor the surrounding environment.
➢ Reach to the place through the opposite way to wind direction
➢ Cover the spilled are by using dry soil or fly ash as absorbing inert media.
➢ Collect the material in plastic bags / drums and clean the floor.
➢ Send the material for proper disposal.

Spillage of Leachate water during transferring from tank to tanker:

➢ Stop the transferring pump immediate. Close all transferring valves.
➢ Intimate safety officer and Plant Manager through Intercom / telephone system and clearly inform about
  1) The Location
  2) Tanker No.
➢ Evacuate & barricade the Area
➢ Use following PPEs
  - Boiler suit
  - Hand Gloves
  - Apron
  - Face Mask or Safety goggles
  - Helmet
  - Multi gas cartridge mask
  - Gum Boot
➢ Check Wind Direction & monitor the surrounding environment.
➢ Reach to the place through the opposite way to wind direction
➢ Use dry soil or fly ash as absorbing inert media and spray over the spilled liquid.
➢ After solidification collect the material in a plastic bag and clean the floor
➢ Send the material for proper disposal
➢ Replace the leaky pipe / valve.

Water accumulation in landfill due to heavy rain:

We are keeping four nos. of Diesel pump of 40 m^3/hr capacity and 5 Electric pump of 80 m^3/hr capacity to pump out the accumulated water due to heavy rain. In the event of a landfill instability such as a slop failure the first concern is always safety, safety of site personnel, safety of site entrants, and safety of general public. The situation will need to be assessed concisely and necessary emergency procedures and precautions implemented as quickly as possible.

- Inform Incident Controller when water accumulation is noticed
- Implementation of onsite emergency plan
- Start pumps to pump out the water accumulated.
- Check the water quality, if contaminated send for treatment.
- Necessary PPEs like helmet, gum boot, hand gloves, rain coat to be provided. If required, relocation and covering of waste to be performed quickly and safely
- Perform mitigating activity to limit further contamination or damage
- Work to be done round the clock
- Primary report to be prepared and reviewed at regular intervals regarding the activities of waste shifting.

Electric Shock:

- Electric shock results in irreversible damage to brain cells followed by deterioration of other organs.
- Rescue and first aid –
- Do first thing first, quickly and without fuss or panic.
- Switch off the supply if this can be done at once. If not possible, use a dry stick, dry cloth or other non-conductor to separate the victim of electrical contact. The rescuer must avoid receiving shock himself by wearing gloves or using a jacket to pull the victim. Always keep in mind that delay in rescue and resuscitation may be fatal. Every second counts.
- Artificial respiration
  Give artificial respiration, if breathing has stopped. There are several methods of artificial respiration. If the victim is not injured over the face, try mouth to mouth. If the victim is injured over the face, use Silverster Brosch method.

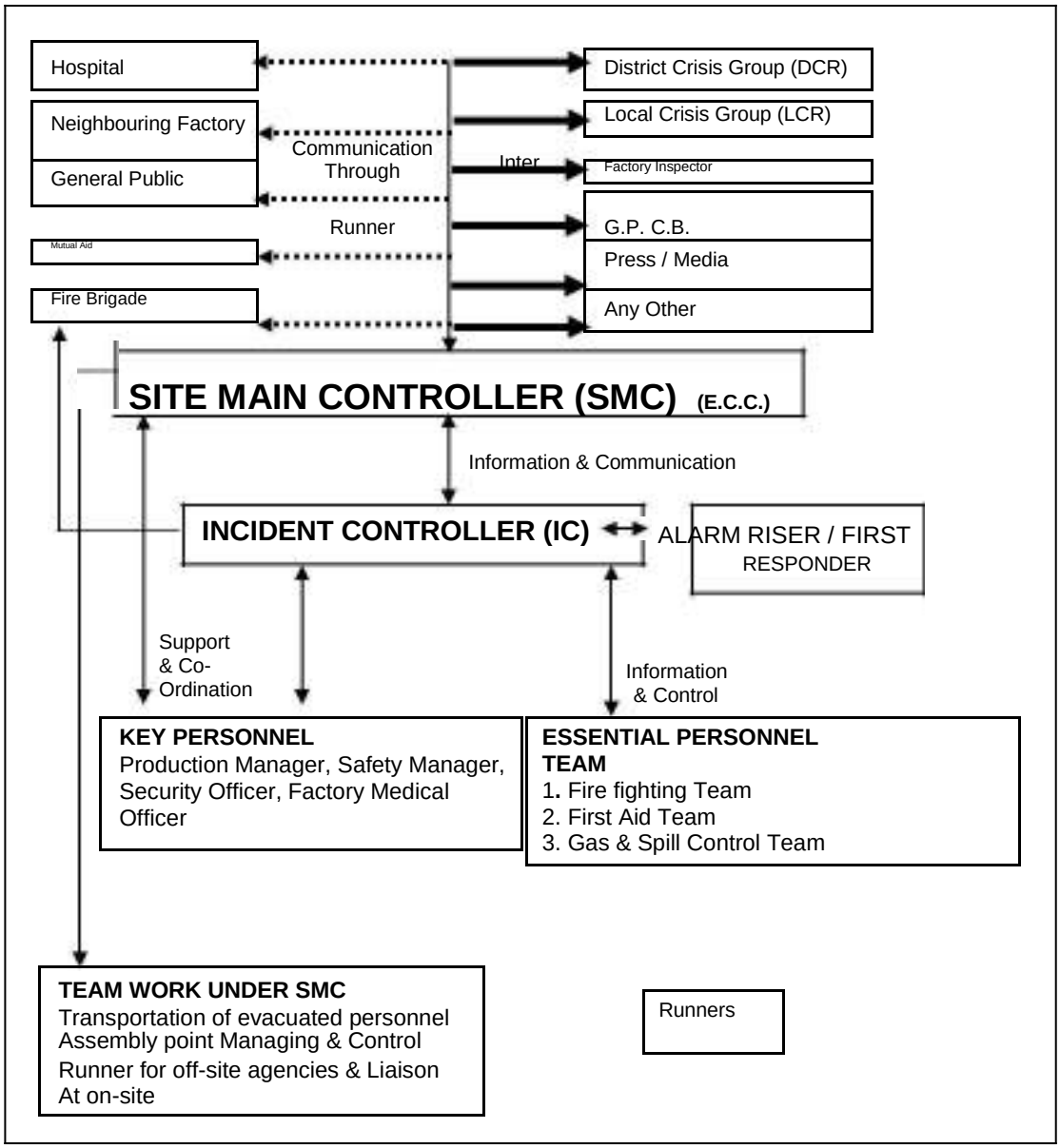
Road Accident:

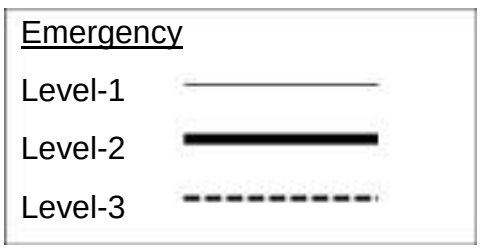
- Rescue and first aid –
- Do first thing first, quickly and without fuss or panic.
- Stop vehicle movement. Control the traffic.
- Inform security & Adm. Dept. immediate.
- Keep firefighting equipment ready to use.
- Shift injured person to the safe location & give first aid.
- If person observed unconscious, give artificial respiration. Shift the person to hospital for further treatment.

The On-site emergency plan deals with, measures to prevent and control emergencies within the factory and not affecting outside public or Environment.

The Off-site emergency plan deals with, measures to prevent and control emergencies affecting public and the environment outside the premises.

Emergency Organization Chart





7.1 ROLES AND RESPONSIBILITY OF EMERGENCY RESPONSE PERSONNEL

7.1.1 ALARM RISER / FIRST RESPONDER

Any person who notices the abnormal incident of hazardous nature, his responsibilities:

1. As soon as he notices any incident of hazardous nature i.e. Fire, Explosion, Toxic gas Release, Heavy Spillage of hazardous & Toxic Chemicals. He will first inform to his superior and co -worker.
2. The Site Main Controller/ Respective Incident Controller will order to instruct the Security office raise the siren.
3. In case of failure of power supply rings the manual bell loudly.

7.1.2 SITE MAIN CONTROLLER

He is the head authority of the Emergency Organization. Director- Operation holds the responsibility of the Site Main Controller. He is having overall responsibility for directing operation and calling for outside help from Emergency Control Center.

On being informed about the emergency he will-

1. To rush to the ECC
2. To relieve the incident controller from responsibilities for overall m ain control. On consultation with I.C. and Key Personnel decide about the type of emergency and activate on site / off site Emergency Plan if not activated.

3. To ensure that key personnel are called in.
4. After declaring the major emergency,
   a) To activate the off site plan (if required).
   b) To ensure about the outside emergency services and mutual aid helps are called.
   c) To inform neighbours factories by telephone or by sending runner and surrounding population through loud speakers.
5. To continuously review and assess possible developments to determine the most probable course of events.

6. To direct the safe close down and evacuate the plant in consultation with the incident controller and key person. If necessary, arrange to evacuate the neighbouring population.
7. To ensure that the casualties are receiving adequate attention -
    a) To arrange for hospitalization of victims.
    b) To inform/ensure that the relatives are informed.
8. To inform and liaison with Local Crisis Group (SDM -LCC), District Crisis Group (collector-DCR), Joint Director (Industrial safety & Health) and experts of health and safety.
9. To ensure that assembly point managing team reached on the company assembly point to take charge.
10. To ensure the accounting of personnel and rescue of missing persons.
11. To control traffic movement inside factory.
12. To ensure canteen facilities, if the emergency is prolonged.
13. To issue authorized statement to the news media.
14. To ensure preservation of evidence make arrangement for photographs etc.
15. To control rehabilitation of affected areas and victims on cessation of emergency.
16. To instruct the Security office to raise “All Clear Siren” after ensures that the emergency is controlled and over.
17. To ensure that the plant is not start unless inspected / investigated by Joint Director (Industrial safety & Health) or Government Authorities/ insurance surveyor.

7.1.3 INCIDENT CONTROLLER

Respective Cell In-charge of the Land fill (Site) & Department holds the responsibility of the Incident Controller, if the incident is in their plant/area. On being informed of the emergency and its location he will rush to the site and he will,

1. Assess the scale of emergency, if the emergency is minor, try to prevent by using internal resources like fire extinguishers in case of fire, and cover the spillage by sand in case of liquid spillage.

2. Assess the scale of emergency, if the emergency is major / unable to prevent by using internal resources, he will start to activate on-site plan by raising the siren through telephone office/security office. The security officer on duty will inform Security staff for raise the siren.
3. If fire emergency is there and fire is major /unable to prevent by using internal resources, the incident controller (IC) will inform to local fire brigade by telephone through (ECC) office.
4. Incident controller and in his absence, deputy incident controller shall also have to take responsibilities of Site main controller (SMC), till site mai n controller take the charge of emergency control center (ECC).
    a) They should remain at the plant assembly point with their personnel if safe to do so unless instructed by SMC/IC.
    b) Partial shutdown of plant should be followed by trained essential person of the plant/area.
    c) To carry out head count at plant/area assembly point.
    d) As per the emergency, to send the essential person team member will fully equip at incident place.
5. Incident controller shall depute one or two other's area Incident controller of other plant/area for his help in communication to SMC.
6. To send telephonic message to Site Main Controller and key personnel or send messenger/runner to inform them about incident.
7. As per the incident, direct the respective team of essential personnel to prevent it by using extinguishers in case of fire, by covering the liquid spillage by sand or soil in case of liquid spillage or by adequate equipment, etc.
8. To ensure about the key personnel arrived and distribute their duties.
9. To ensure that Firefighting, First aid & rescue and Engineering service trained team member reported at the site
10. Establish a control point at a safe distance.
11. To set up a communication point and establish contact with the emergency control center.
12. To ensure availability of the outside services like mutual aid, fire brigade through emergency control center.
13. Direct the safe shut down of the plant or part of the plant and evacuate the plant or

area to the safe company assembly point.

14. Direct all operations within the affected areas with the following priorities.
    a) Secure the safety of personnel.
    b) Minimum damage to plant, property and environment.
    c) Minimize loss of material.
15. To search for causalities.
16. To give advice and as asked by the head of fire brigade and emergency services.
17. To brief site main controller and keep informed of development of situation.
18. To Inform the Site Main Controller/Telephone operator after controlling the Emergency to raise all clear siren.
19. To preserve evidences that will be necessary for subsequent inquiry into the cause of the emergency and concluding preventive measures.

7.1.4 DEPUTY INCIDENT CONTROLLER

In the absence of Incident Controller, Deputy Incident Controller holds the responsibility of the Deputy Incident Controller.

7.1.5 KEY PERSONNEL

On being informed of the emergency he will rush to the incident site and will report to incident controller or Site Main Controller at E.C.C.

The responsibilities and duties of key personnel are as follows.

(A) Landfill Supervisor

1. To keep in touch with IC & SMC in assessing/ controlling the emergency.
2. To guide essential personnel team.
3. To guide personnel for safe close down of the plant.
4. To guide transport for safe shifting of materials from one place to other.
5. To guide mutual aids services and the teams.
6. To keep informed the site main controller about developments.
7. To make arrangement like emergency light, water etc.
8. To assess the emergency & evacuate the neighbouring factory workers and neighbouring population through SMC.
9. To inform the effect of emergency and steps to be taken to avoid the effects of a

radiation etc.

(B) Safety Officer / Admin officer

1. To assist site main controller & incident controller in controlling emergency
2. To help site main controller in communication.
3. To provide necessary equipment's like FFE, PPE & RPE.
4. To guide transport for safe shifting of materials from one place to other.
5. To guide mutual aids services and the teams.
6. To keep informed the site main controller about developments.
7. To make arrangement like emergency light, water etc.
8. To assess the emergency & evacuate the neighbouring factory workers and neighbouring population through SMC.
9. To inform the effect of emergency and steps to be taken to avoid the affects of a Fire etc.

(C) Security In charge

1. To help incident controller & site main controller at the time of emergency.
2. To cordon the area and inform incident controller or site main controller about the development of emergency.
3. To provide necessary equipments like FEE, PPE & RPE.
4. To fight the fire with available internal FFE.
5. To make arrangement for evacuating workers from the place of accident and guide non- essential workers towards company assembly point.
6. To search of missing persons.
7. To ensure that the roadway to plant is clear for emergency vehicles. Obtain assistance to keep roadway clear and to stop non-emergency traffic from entering.
8. To direct their personnel (Response force & Task force) for evacuation of non-essential workers & Crowd control.
9. To liaise with mutual aid services for their help and guide to them.
10. To blow emergency siren & all clear siren on receiving message from IC/SMC through telephone office.

(D) Factory Medical Officer (Visiting).

1. To provide treatment/ first aid to the affected persons and if necessary, send

them to hospitals for further treatment.

2. To keep liaison with hospitals and inform them about the type of emergency help required as per discussion with Site main control.
3. Arrangement for adequate stock of antidotes, lifesaving drugs and special medicines.
4. To keep the record of persons given first aid/ treatment and send them to hospitals with their name.
5. To keep ready the list of blood groupings.
6. To inform site main controller about the developing situation.
7. To guide/instruct first aider, first aid & Rescue team in case of any emergency.
8. To keep ready the list of first aider.
9. To identify of all the hospitals for facilities to render medical aid to victims of exposure to dangerous chemical substances, burns and other specific injuries. (State authorities, local authorities, ESICS, Private,
   Railways/Voluntary institutions, trusts etc.) & report to SMC
10. To keep provisions of buffer stock of essential medicines like intravenous fluids, dressing materials, splints, oxygen cylinders, suction apparatus etc. Keeping in view the large number of third degree burns, heat radiation.

(E) Telephone Operator

1. To take charge of Tel. Board/Telephone Section.
2. To call local fire brigade after receiving authentic instruction from incident controller
3. After receiving authentic instruction to sound emergency siren/ all clear siren from I.C / S.M.C., they immediately instruct security officer to do so.
4. To record the message on no. for giving emergency information to all concerns.
5. To arrange telephone facility at incident site.
6. To transmit message to key personnel, outside agencies as per the instructions of the site main controller/Incident controller.
7. To maintain the record of outgoing and incoming messages in the emergency call.
8. To keep constant touch with emergency control center.

7.1.6 ESSENTIAL PERSONNEL TEAM

As soon as the essential personnel hear the emergency siren or any emergency brought to the knowledge, they first report to incident controller (After hand over their charge to other plant supervisor) with fully equipped themselves. (For proper information all team member have to contact immediately on telephone Number)

The team of the essential personnel trained in Fire Fighting, First aid and Engineering controls. And they are available in factory in all shifts.

Their responsibilities are as under:

1. To rush at the site for help with fully equipped. I.e. firefighting equipment, SCBA sets, etc.
2. To decide line of action in consultation with incident controller & Key personnel and take appropriate measures to extinguish the fire & to control spillage.
3. To fight fire till a fire brigade takes the charge.
4. To help to the fire brigade and mutual aid teams.
5. To control leakage with emergency kit or spillage control with sand or neutralizing material.
6. To Rescue the injured person.
7. To provide first aid to the affected persons and if necessary, send them to hospitals for treatment.
8. To take charge of ambulance room and first aid room.
9. To help & assist Factory Medical officer.
10. To assist at casualties reception areas to record details of casualties.
11. To send wiremen at Fire pump immediately.
12. To provide emergency power supply if required.
13. To take emergency Electrical black out if required.
14. To provide emergency searchlight if required.
15. To remain near control point and await further instruction from IC.
16. On hearing the siren or any emergency brought to the knowledge, reach at incident with fitters and toolbox for any mechanical assistance.
17. To do emergency engineering work like isolation of equipments, material,

process, providing temporary by pass lines safe transfer of materials, urgent repairs and replacement etc.

18. On hearing the siren or any emergency brought to the knowledge, arrange for vehicles for material handling like Tractor- trailer, tanker, tempo etc. & keep ready them to cater the needs emergency as per the instruction of SMC & IC.
19. To keep ready equipments at store to cater emergency requirement.
20. On hearing the siren or any emergency brought to the knowledge, arrange for vehicles like JCB, scrapper etc. & keep ready them to cater the needs of SMC & IC.
21. Keep ready require quantity of dry sand or dry clay.
22. To ensure that the roadway to plant is clear for emergency vehicles.
23. To stop non-emergency traffic from entering.
24. Prevent unauthorized entry in factory.
25. To work as per the instruction/direction of IC, KP, SMC.

7.1.7 FOLLOWING PERSONS / TEAMS WORKS UNDER SITE MAIN CONTROLLER

The responsibilities and duties are as follows.

1. For Transportation of persons, company's vehicles, car, etc. to be first used and if needed then the vehicles from mutual aid centers are called for help.
2. The company assembly points for gathering non-essential workers/reserved staff/Contractor/Visitors are fixed.
3. Assembly points are decided as per the direction of wind and are at safe location.
4. Runner's/Messengers for off-Site Agencies & Liaison at on-site
    a) To report to site main controller.
    b) To transmit message to key personnel, essential workers at their home addresses.
    c) To transmit messages to neighbouring factories about emergency.
    d) To transmit the message from incident controller to site main controller.
    e) To send authentic messages to the local authorities, emergency services help, etc. As per the directives of S.M.C.

7.2 INCIDENT CONTROLLERS

Shifts	Incident controller				Runner's	
	Name & Designation	Place of availability		Contact No.	Name	Place of availability
		In the Factory	Residence address			
1	**2**	**3**	**4**	**5**	**6**	**7**
General	Mr. Rajesh Mistry	Cell Area	A-1, Pavanpuri-1, Bholav, Bharuch	9099057365	Mr. Manish Shah	Lab

7.3 DEPUTY INCIDENT CONTROLLERS

Shifts	Dy. Incident controller				Runner's	
	Name & Designation	Place of availability		Contact No.	Name	Place of availability
		In the Factory	Residence address			
1	**2**	**3**	**4**	**5**	**6**	**7**
General	Mr. Bhavesh Pancholi	Cell Area	A2/52, Narayan Garden, Nr. Shravan School, Bharuch-392001	9909996023	Mr. Abhay Prasad	Cell Area

7.4 SITE MAIN CONTROLLERS

Sr. No.	Site Main Controller's				Runners		
	Name/Designation	Place of availability		Contact No.	Name/ Designation	Place of availability	Phone
		In the factory	Residence address				
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
1	Mr. Rajesh Mistry	Admn.Office	A-1, Pavanpuri-1, Bholav, Bharuch	02641291129	Mr. Manish Shah	Lab	**9099036854**

7.5 KEY PERSONS

Sr. No.	Name/Designation	Residence address	Contact No.
1	Mr.Ashok Panjawani	5,Shivranjni Society, Near Navsarjan Co-Operative Bank Ltd,GIDC,Ankleshwaqr,Dist-Bharuch	9909994902
2	Mr.Rajesh Mistry	A-1,Pavanpuri-1,Narmada Spinning Mill Compound, Bholav, Bharuch, Pin-392001	9099057365
3	Mr. Bhavesh Pancholi	A2/52, Narayan Garden, Nr. Shravan School, Bharuch-392001	9909996023
4	Mr Pathik Patel	11, Siddhivinayak Park, Bholav, Bharuch	9714784499
5	Mr.Sanjay Joshi	A-304, Salin Residency, GIDC colony, Ankleshwar	7575001962
6	Mr. Sandeep Rana	A-16 Nipan nagar, Link road, Bharuch	9978374822
7	Mr. Mehul Prajapati	A-10, Ganeshpuri Society, Zadeshwar Road, Bharuch	9879680026
8	Mr. Jay Degadwala	282, Siddhnath nagar, GH board, Bharuch	7575043283

7.6 ESSENTIAL PERSONS FOR FIRE FIGHTING TEAM & FIRST AID TEAM

Sr. No.	Name	Contact No.
1	Mr. Mihir Rana (QC chemist)	9978950089
2	Mr. Mayur Rana (OfficerElectrical)	7567950609
3	Security In charge	9712529448
4	Mr. Jay Sawant	8469757016
5	Mr. Dhaval	9979209894
6	Mr. Paresh Patel	9909029238
7	Mr. Rahul Mehta	8460091525
8	Mr. Siddik Desai	9574779824
9	Mr. Shoaib Master	9974289157

7.7 EMERGENCY CONTROL CENTRE:

Ground Floor Administration office is declared as Emergency Control Center (ECC). The emergency control centre (or room) is the place from which the operations to handle the emergency are directed and coordinated. The site main controller, key personnel and senior officers of the fire, police, factory inspectorate, district authorities and emergency services will attend it. The centre should be equipped to receive and transmit information and directions from and to the incident controller and areas of the works as well as outside. It should also have equipment for logging the development of the incident to assist the controllers to determine any necessary action.

In addition to the means of communication, the centre should be equipped with relevant data and equipment which will assist those manning the centre to be conversant with the developing situation and enable them to plan accordingly.

It should be sited in an area of minimum risk and close to a road to allow for ready access by a radio-equipped vehicle for use if other systems fail or extra communication facilities are needed.

For large sites or where Fire may occur might be anticipated, consideration should be given to setting up two control centers to ensure, so far as is possible, that one will be available for use, should the other be disabled. If necessary the police will assist to set up an emergency control center remote from the works.

The center should therefore contain:

1. An adequate number of internal telephones.
2. An adequate number of external telephones. It is strongly recommended that at least one should be ex-directory or capable of use for outgoing calls only. This will avoid the telephone switchboard being overloaded with calls from anxious relatives, the press etc. the least telephone directories with a separate list of important numbers.
3. Plans of the factory Should be show:
    a) Areas of large inventories of hazardous wastes including Storage shed
    b) Sources of sirens and safety equipments including fire, explosion, and Toxic gas Release, Heavy Spillage of Hazardous & Toxic Chemicals.
    c) Stocks of other fire extinguishing materials.
    d) The fire - water system and additional sources of water.

e) Site entrances and road system, updated at the time of the emergency to indicate any road that is impossible.

f) Company assembly point, shelters, lunchroom and canteen.

g) Casualty treatment centers, first aid centers and ambulance room.

h) Parking points, rail sidings and visitors room.

i) Location of the factory in relation to the surrounding community (Chapter- 6.1).

4. Additional plans which may be marked up during the emergency Should be show:
   a) Areas affected or endangered within the factory.
   b) Surrounding areas, population and other environment likely to be affected due to fire wind speed recorders and ready computer models (risk counters) based on prevailing wind direction, velocity, weather conditions and other parameters, will be much useful for quick judgment and evacuation of those areas.
   c) Areas where particular problems arise.
   d) Area evacuated and safe routes for escape.
   e) Deployment of emergency vehicles and personnel.
   f) Other relevant information.

5. Nominal roll of employees, work permits, MSDS, gate entries and documents for head count or access to this information. Employee's blood group information and addresses will also be useful.
6. Note pads, pens, pencils, rubber and stationery to record all messages received and sent by whatever means.
7. Note copies of this on-site emergency plan i.e. updated full text including all information from this, some vehicles and messengers (runners) should be kept ready at the centre.
8. Torches, umbrella, raincoats and some extra sets of gas detectors, explosive meters and personal protective equipments.

7.7.1 Details of the emergency control centre:

Location of the centre Telephone Nos. of the centre		**Ground Floor Office**				
Sr. No.	**Items kept in the centre**	**Numbers or Qty.**	**Person who will operate this item**	**Its period of operation**		**Notes**
				Last	**Present**	
1	**2**	**3**	**4**	**5**	**6**	**7**
1	First Aid kit, Safety Goggles, Face Shield	4 Nos	Mr. Rajesh Mistry	Revised Periodically	Revised Periodically	Company has a checklist to check once in a 15 days
2	Canister mask	N.A				
3	SCBA sets	N.A.				
4	Torches, Raincoats, Stationary, Cop on On-site & Off-site Emergency Plan	4Nos each				
5	Telephone Facility, Important Telephone no. List, Address of Key Personnel, External Phone directory	Attached list		Revised Periodically	Revised Periodically	Company has a checklist to check once in a 15 days
6	Location of Equipment, plant Layout, Location of Fire Extinguisher, Areas to be evacuated & Route of Entrance/Escape	4 No		-	-	-

CHAPTER- 8: FIRE FIGHTING AND OTHER ARRANGEMENTS FOR OFF-SITE EMERGENCY

8.1 AVAILABILITY OF FIRE FIGHTING FACILITES:

	Fire water : From Underground tank **Nos. of Tanks:** 01 **Total tank Capacity:** Approx. 250 KL

Fire Fighting and other source & capacity (Self & Mutual)	**No. of hydrant Points**	**No. of fire pumps, type & capacity**	**No. of hose reels & total length**	**No. of Hose Pipe & Length**	**No. of fire tender and capacity**	**No. of Monitors**				**Alternate power arrangement**
						Fixed		**Portable**		
						Lifting Height	**Pressure**	**Lifting Height**	**Pressure**	
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**
Self	20	Diesel pump & Jockey pump & Electrical pump	04 Nos (30mt)	40 Nos (15 mt)	NIL	Four	5 Kg/cm2	NIL	NIL	DG set

8.2 AVAILABILITY OF FIRE EXTINGUISHERS:

Sr. No.	Type of Extinguisher	Qty.	No. of Extinguisher
1	CO2	4.5 Kg	17
2	ABC	4 Kg	27
3	CO2	9 Kg	02
4	**Clean Agent**	**2 Kg**	**04**
5	**Foam**	**50 Lit**	**02**
Total			**52**

CHAPTER- 9: MEDICAL ARRANGEMENTS FOR ON-SITE PLAN

Name of Hospital & Location	Telephone No.	Details of In-charge Person			Facilities	Antidotes	First Aiders	Accomodation	Ambulance van or alternate arrangement			
		Name	Residence						Place of availability	Capacity	Facilities in the van	Driver's name & address
			Phone	Address								
1	2	3	4	5	6	7	8	9	10	11	12	13
First Aid centre near main Security Gate		Safety Officer	7359770670		1 bad and oxygen facility	Anti snack		Yes in plant	near main Security Gate	5 people	----	9712529448

CHAPTER- 10: EMERGENCY DUE TO NATURAL CALAMITIES

10.1 TYPES OF NATURAL CALAMITIES & ITS ACTION PLAN:

1) Earth quake:

DURING EARTHQUAKE, If indoors:

- Take cover under a piece of heavy furniture or against an inside wall and hold on.
- Stay inside.
- The most dangerous thing to do during the shaking of an earthquake is to try to leave the building because objects can fall on you.

DURING EARTHQUAKE, If outdoors:

- Move into the open, away from buildings, street lights, and utility wires.
- Once in the open, stay there until the shaking stops.

DURING EARTHQUAKE, If in a moving vehicle:

- Stop quickly and stay in the vehicle.
- Move to a clear area away from buildings, trees, overpasses, or utility wires.
- Once the shaking has stopped, proceed with caution. Avoid bridges or ramps that might have been damaged by the quake.

AFTER EARTHQUAKE

- Be prepared for aftershocks. Although smaller than the main shock, aftershocks cause additional damage and may bring weaken structures down. Aftershocks can occur in the first hours, days, weeks, or even months after the quake.
- Help injured or trapped persons.
- Give first aid where appropriate.
- Do not move seriously injured persons unless they are in immediate danger of further injury.
- Call for help.
- Listen to a battery-operated radio or television for the latest emergency information.
- Remember to help your neighbours who may require special assistance--infants, the elderly, and people with disabilities.
- Stay out of damaged buildings.
- Return home only when authorities say it is safe.
- Use the telephone only for emergency calls.
- Clean up spilled chemicals or other flammable liquids immediately. Leave the area if you smell gas or fumes.

2) Lighting & Thunderstorm:

BEFORE

- Thunderstorm is invariably accompanied by lightning A single stroke of lightning has 125, 000, 00 volts of electricity. That's enough power to light a 100-watt light bulb for more than 3 months, or enough to seriously hurt or to skill someone. Know what steps to take in the event of an oncoming thunder storm & lightning. Lightning is something you should not be careless about, so seek a safe shelter immediately! Be warned, lightning can and does strike just about any object in its path. When you see lightning, follow these safety rules.

INDOORS

- Stay or go indoors! If you hear thunder, don't go outside unless absolutely necessary. Stand clear from windows, doors, and electrical appliances.
- Stay away from anything that could conduct electricity. This includes electric, lines, Electric Instruments, wires etc and
- phones Unplug appliances well before a storm strikes – never during.
- Don't use any plug-in electrical instruments. If lightning strikes your building they can conduct the charge to you.
- Don't use the telephone during the storm. Lightning may strike telephone lines outside. Use the telephone only for emergencies quickly. Avoid contact with piping including sinks, baths and faucets.

OUTDOORS

- When outdoors, seek shelter from lightning! Buildings are best for shelter, but if no buildings are available, you can find protection in a cave, ditch, or a campus. Trees are not good cover. Tall trees attract lightning. Never use a tree as a shelter.
- Stay in your vehicle if you are travelling, vehicles gives you excellent lightning protection. Get in a hard topped car.
- If you can't find shelter avoid the tallest object in the area. If only isolated trees are nearly, your best protection is to crouch in the open, keeping twice as far away from isolated trees are high. Avoid areas that are higher than the surrounding landscape.
- Don't use metal object outside. Keep away from metal objects including bikes,

electric or telephone poles, fencing, machinery etc.

- Get out of the water. Immediately get out and away from pools, lakes, and other bodies of water.
- When you feel the electrical charge – if your hair stands on end or your skin tingles- lightning may be about to strike near you. Immediately crouch down and cover your ears. Do not lie down or place your hands on the ground.
- Victims of lightning shock are administered CPM (Cardio pulmonary resuscitation) i.e. artificial respiration, if necessary. Seek medical aid.

3) Heavy Rain:

- Stay out of the basement.
- Stop all jobs outside.
- Heavy rain many times accompanies high-speed wind. Stop all work at height.
- Disconnection power supply to all electrical Machines in open yards.
- Cover all JBs\DBs where chances of water coming to it are there.
- Keep Gumboot, Raincoat and umbrellas ready.
- Keep all dewatering pumps ready in working order.
- Move valuable objects upstairs only if safe to do so, without straining yourself
- Keep yourself indoors and away from rivers and creeks
- Stay away from low/lying areas
- Avoid walking through a waterlogged area on foot; you can get swept away easily.
- Assemble everyone inside shelters or buildings.
- Close windows and blinds.
- Evacuate rooms that might bear the full force of the wind
- Avoid enclosures that have long roof spans.
- Keep the office radio tuned to a local station for current advisory information

CHAPTER- 11: MUTUAL AID ARRANGEMENTS

11.1 TYPES OF ACCIDENT

a) Fire & Explosion
b) Toxic gas release

11.2 RESPONSIBILITY ASSIGNED

Site Main Controller is responsible for informed to all following authorized organization in case of on-site emergency.

11.3 MUTUAL AID

Since combating major emergencies might be beyond the capability of individual unit, it is essential to have mutual aid arrangements with neighboring industries. Consideration shall be given to the following while preparing mutual aid arrangements:

(a) Written mutual aid arrangements are to be worked out to facilitate additional help in the event of Level -II emergencies by way of rendering manpower, medical aid or fire fighting equipments, etc.

(b) The mutual aid arrangement shall be such that the incident controller of the affected installation shall be supported by neighboring industries on call basis for the support services materials and equipments already agreed. Further, all such services deputed by member industry shall work under the command of the INCIDENT CONTROLLER of the affected installation.

(c) Mutual aid associations shall conduct regular meetings, develop written plans and test the effectiveness of their plans by holding drills. Drills are essential to establish a pattern for operation, detect weakness in communication, transportation and training. Periodic drills also develop experience in handling problems and build confidence in the organization.

(d) To make the emergency plan a success, the following exchange of information amongst the member organizations of mutual aid association is considered essential: -

i. The types of hazards in each installation and fire fighting measures.
ii. List of all the installations or entities falling along the routes of transport vehicles carrying petroleum or petroleum products.
iii. The type of equipment, that would be deployed and procedure for making the replenishment.
iv. Written procedures which spell out the communications system for help and response. This is also required to get acquainted with operation of different firefighting equipment available at mutual aid members and compatibility for connecting at users place.
v. Familiarization of topography and drills for access and exit details carried out by mutual aid members.

Note: Incidents involving road transport vehicles carrying petroleum products shall be attended by the nearest installation on request of civil authorities even in absence of mutual aid agreement with the consignor.

11.3.1 MUTUAL AID ARRANGEMENTS OF FIRST- AID AND HOSPITAL SERVICES AVAILABLE:

Doctors (all nearby)			Mutual Aid Arrangements								
Name address & Phones	Residence		Name & address of the facto-tires & Hospitals	Approx. Dist.	Contact		Facilities available				
	Phone No.	Phone No.			Person	Phone No.	Accommodation	Doctors	Equipments	Anti-dotes	Ambulance van
1	2	3	4	5	6	7	8	9	10	11	12
Medical Superintendent	02642-2425201/ 244881	Bharuch Hospital (Patel Welfare Hospital), Jambusar Road, Nr. Bharuch tower	Reliance Industries (IPCL) Occupational Health Centre	5 Km	**Dr. R. Ranjan** MBBS, GM (MS) **Dr. V. N. Sheth** MBBS, Sr.Mgr. (MS)	02641-282032/33/3, 282000 (M) 9974078510 (M) 9998975822	---	Dr. R. Ranjan MBBS, GM (MS) Dr. V.N.Sheth MBBS, Sr.Mgr.(MS)	03 Ambulance 02 Stretchers, 10 Bed, 15 Oxygen cylinders and laboratory available	---	03
	0265-2280300/ 2381301 / 2286666 / 2282155	Bhailal Amin general Hospital	Birla Copper First Aid Center	7 Km	Medical officer	02641-256004/5/6, 251008/9	---	Dr. A. A. Rawal MS, Medical officer	03 Ambulance 06 Stretchers, Bed 13, Oxygen cylinders 02 and laboratory available	---	03

Doctors (all nearby)			Mutual Aid Arrangements								
Name address & Phones	Residence		Name & address of the facto-tires & Hospitals	Approx. Dist.	Contact		Facilities available				
	Phone No.	Phone No.			Person	Phone No.	Accommodation	Doctors	Equipments	Anti-dotes	Ambulance van
1	2	3	4	5	6	7	8	9	10	11	12
Dr. R. D. Patel Chief Dist. Medical Officer & Civil Surgeon	02642-243515, 241759	Civil Hospital, Bharuch	GACL First Aid Center	10 Km	Medical Officer CIS	02641-2486407 / 507, 240889, 2489371	---	Dr. M. P. Vyas MBBS,Medical Officer Dr. J. Gadhiya MBBS, CIS	Stretchers 02, Bed 06, Oxygen cylinders 09	---	01
---	---	---	GCPTCL	1 Km	Dr. R.Ranjan MBBS, GM (MS)	02641-261031 (M) 9974078510	---	Dr. R.Ranjan MBBS, GM (MS)	Stretchers 03, Bed-02, Oxygen cylinders- 04	---	01

11.3.2 MUTUAL AID ARRANGEMENTS OF FIRE & TOXICITY CONTROL ARRANGEMENTS:

Name & Address of the Factories & Fire Stations	Approx. Distance	Contact		FFE Available		PPE Available		No. of Experts & Trained	Deconta-mination Substance	Gas Detectors Available	Other Equipments Available
		Person	Phone No.	Type	Qty.	Type	Qty.				
1	2	3	4	5	6	7	8	9	10	11	12
GCPTCL Fire Station	Dahej (1 km)	Control room	02641-261101/035/036	Foam tender	02 (two)	---	---	---	---	---	---
				Foam	(2000 Lit						
				Hose pipe	300 Nos						
				Nozzles	300 Nos						
Reliance Industries Ltd. (IPCL) Fire Station	Dahej (5 km)	Control room	02641-616021/022, 279391 (M) 9998001085	Foam tender	03	---	---	---	---	---	---
				Foam	30000 lit						
				Hose pipe	500 Nos						
				Nozzles	400 Nos						
				Emergency rescue tender	01						
				Fire Jeep	01						
Birla Copper (HINDALCO) Fire Station	Dahej (7 km)	Fire Control room/ECC room	02641-256004/05/06 Fire Ext-101/2222	Foam tender	02 (two)	---	---	---	---	---	---
				Water tender	01 (one)						

Name & Address of the Factories & Fire Stations	Approx. Distance	Contact		FFE Available		PPE Available		No. of Experts & Trained	Deconta-mination Substance	Gas Detectors Available	Other Equipments Available
		Person	Phone No.	Type	Qty.	Type	Qty.				
1	2	3	4	5	6	7	8	9	10	11	12
				Foam	10000 Lit						
				Hose pipe	51 Nos						
				Nozzles	35 Nos						
				Fire Jeep	02 (two)						
GACL Fire Dept.	Dahej (10Km)	Control room Fire ext No CCE Ext no	02641 256315/16/17 202/293 232/293	Water tender	01 (one)	---	---	---	---	---	---
				Fire Jeep	01 (one)						
				Foam	10,000 Lit						
				Hose pipe	250						
				Nozzles	100						
Bharuch Fire Station	Bharuch (51 KM)	Fire officer	02642-240008/101/102	---	---	---	---	---	---	---	---

CHAPTER- 12: COMMUNICATION ARRANGEMENTS DURING EMERGENCY AND FOR OFF-SITE EMERGENCY

After the Risk and their possible environmental impact and after making an organization for the preparedness to control the emergency, the next step is to make ready the communication system. It is crucial factor in handling an emergency.

Under section 41-b of our factories act, now the disclosure of information to the workers, general public, local authority and the chief inspector is made compulsory. Such advance communication is for the purpose of their emergency preparedness.

For the purpose of on-site and off-site emergency plan, we should have quick and effective communication system to make the emergency known

(a) Inside the factory

(b) To key personnel outside normal working hours

(c) To the outside emergency services and authorities and

(d) To neighboring factories and public in vicinity.

The communication system beginning with raising the alarm, declaring the major emergency and procedure to make it known to others is explained below in brief.

12.1 RAISING THE ALARM

Any person who notices any incident of hazardous nature i.e. fire, Explosion, Spillage of Toxic & Hazardous Chemicals, Toxic Gas leakage etc. he will first inform to his superior and co -worker.

The Incident Controller/ Respective Incident Controller will order to raise the siren/Rings the manual bell.

The duties of an alarm raiser shall be described in the Chapter -7 & Details of alarms and sirens provided in the factory & different/different siren codes in Chapter -6.1

12.2 DECLARING THE MAJOR EMERGENCY

The declaration of major emergency puts many agencies on action and the running system may be disturbed which may be very costly at times or the consequences may be serious, therefore such declaration should not be decided on whims or immature judgment or without proper thought.

Chapter- 7.2.1 & 7.2.2 Incident Controller & Site Main Controller.

12.3 TELEPHONE MESSAGES

After hearing the emergency alarm and emergency declaration or even while just

receiving the emergency message on phone, a telephone operator has to play an important role. He should be precise, sharp, attentive and quick in receiving and noting the message and then for immediate subsequent action of further communication. Describe his duties in the emergency instruction booklet given as the last annexure. Chapter – 12.6 & 12.7: Important Contact Numbers

A form is suggested for a telephone operator to receive and record the first emergency call. You should prescribe such form for your purpose with necessary modification, All Internal and External phones are provided in Chapter - 12.

12.4 RUNNER

In case of failure of telecommunication runner will be helpful for communication.

12.5 COMMUNICATION OF EMERGENCY

These should be an effective system to communicate emergency.

a) Inside the factory i.e. to the workers including key personnel and essential workers, on duty and inside during normal working hours
b) To the key personnel and essential workers not on duty and outside during normal working hours
c) To the outside emergency services and the government authorities and
d) To the neighbouring firms and the general public in the vicinity. Key points are suggested below:

TO KEY PERSONNEL OUTSIDE NORMAL WORKING HOURS

Generally because of the planning suggested in chapter - 7 the key personnel and essential workers will be available in all shifts or on short call. But due to some reason, if some are outside or not on duty and if their help is required, their up-dated lists (Chapter 7.2) shall be kept and (if located elsewhere) the communications centre from which the call in will be made.

Names should be listed in order of priority. Communicators should be told to call in the personnel in the order given, but not to waste time hanging on unduly for the call to be answered. Instead, they should proceed through the list and return to those where the initial call was unanswered. If the second call remains unanswered, they should try to contact the nominated deputy.

On making contact, the communicator should give a short prearrange message to the effect that a major emergency has been declared at the works. Those contacted should not try to elicit further information at this stage, thereby delaying other calls. Liaison with

the police will help to establish means whereby personnel called in can be allowed to proceed through any road blocks set up as part of their traffic control arrangements.

TO THE OUTSIDE EMERGENCY SERVICES AND THE AUTHORITIES

Once the declaration is made, it is essential that the outside emergency services, if they have not already been called in, are informed in the shortest possible time. Liaison at local level will help to determine the best means of achieving this, for example, by direct line or automatic alarm to the fire brigade or by any emergency system. Predetermined code words to indicate the scale and type of the emergency may be useful.

In high risk works and where there is no fulltime works emergency team, it may be advisable to provide for the outside emergency services to be informed on all occasion when the emergency alarm is raised. Local discussion with the outside services will help to decide, but it should be borne in mind that it is better for the emergency services to arrive to find a situation already under control than to find one out of hand due to delay in call-in.

The inside and outside emergency services including mutual aid are listed in Chapter 11.3. These should be utilized as per need.

The emergency must be immediately communicated to the government control room and other authorities such as fire brigade, police, district emergency authority, factory inspectorate, hospital, etc.

The statutory information to above authorities must be supplied beforehand so that they can be well prepared to operate their offsite emergency control (contingent) plan. As per their advice or consultation your on -site plan should be modified and updated also.

TO NEIGHBOUR FIRMS AND THE GENERAL PUBLIC

A major emergency may affect areas outside the works. The surrounding public will be alerted with PA system. The police will undertake any necessary action to safeguard members of the public. In the case of other nearby industrial concerns, consideration should be given to the need for a direct notification to them of the major emergency. This can serve a dual purpose in that it will enable them to take prompt action to protect their own employees and to take whatever measure may be possible to prevent further escalation of the emergency due to effects on their own installations. At the same time, they may be able to provide assistance as part of a prearranged mutual aid plan.

The statutory information to the general public must be supplied before hand to them for their emergency preparedness. Such information u/s 41 -B of the factories act is as under.

1) Name of the factory and address where situated.
2) Identification by name and position of the person giving the information.
3) Confirmation that the factory has approval from the factories inspectorate and pollution control board.
4) An explanation in the simple terms of the hazardous process (s) carried on in the premises.
5) The common names of the hazardous substance used which could give a rise to an accident likely to affect them, with an indication of their principal harmful characteristics.
6) Brief description of the measures to be taken to minimize the risk of such an accident in compliance with its legal obligations under relevant safety statues
7) Salient features of the approved disaster control measure adopted in the factory.
8) Details of the factor's emergency warning system for the general public.
9) General advice on the action members of the public should take on hearing the warning.
10) Brief description of arrangements in the factory, including liaison with the emergency services to deal with foreseeable accidents of such nature and to minimize their effects.
11) Details of where further information can be obtained.

12.6 IMPORTANT INTERNAL TELEPHONE NUMBERS:

Sr. No.	Name & designation	Address	Contact No.
1	Mr.Ashok.A.Punjawani	5,Shivranjni Society,Near Navsarjan Co-Operative Bank Ltd, GIDC, Ankleshwar, Dist: Bharuch	9909994902
2	Mr. Rajesh Mistry	A-1,Pavanpuri-1,Narmada Spinning Mill Compound, Bholav, Bharuch, Pin-392001	9099057365
3	Mr. Bhavesh Pancholi	A2/52, Narayan Garden, Nr. Shravan School, Bharuch-392001	9909996023

12.7 IMPORTANT EXTERNAL TELEPHONES NUMBERS:

Sr.	Name	Organisation/ Department	Contact No.
Nearby Fire Station			
1	Mr. Sanjay Vaidya, Dy. Mgr. (Incharge Fire & Safety)	GCPTCL Fire Station	02641-261035/261101 (M) 9998011229 (M) 9998950550
2	Mr. P. Singh AVP (FSD)	Reliance Industries Ltd. (IPCL) Fire Station	02641-282431/32, 282000, 282433, 282400 (M) 9998975878
3	Mr. Shailendra sing AGM (F&S)	Birla Copper (HINDALCO) Fire Station	02641-256004-06/ 251008-09 (M) 8155001463
4	Mr. N. S. Swarup Mgr. (EHS)	BASF Fire & Safety dept	02641-256571 to 256575 02641-257206 (M) 9824704606
5	Mr. Pankaj Patel Dy. Mgr. (Fire)	GACL Fire Dept	02641-256315-17 (M) 9909918873
6	**---**	Bharuch Fire Station	02642-240008 /101/ 102
Occupational Health Centre/ First Aid-Centre			
7	Reliance Industries (IPCL) Occupational Health Centre	Dr. V.N.Sheth MBBS, Sr.Mgr.(MS)	02641-282032/33/34, 282000 (M) 9974078510
8	Birla Copper First Aid Center	Dr. A.A.Rawal MS, Medical officer	02641-256004/5/6, 251008/9 (M) 9904402622
9	GCPTCL	Dr. V.N.Sheth MBBS, Sr.Mgr.(MS)	02641-261031 (M) 9974078510
10	BASF	Dr. Himanshu Vanza MBBS, Medical Officer	02641-256571 to 75, 257206 (M) 9824143883
11	GACL	Dr. M. P. Vyas MBBS, Medical Officer Dr. J. Gadhiya MBBS, CIS	02641-2486407 / 507, 240889, 2489371 (M) 9825298432 (M) 9825224597
12	Bharuch Hospital (Patel Welfare Hospital)	Dr. Suketu Dave Medical Superintendent	02642-2425201/ 244881 (M) 98241-41681
13	Civil Hospital	Dr. N.A.Parikh Chief Dist. Medical	02642-243515, 241759

		Officer & Civil Surgeon	(M) 9426043580
14	Petronet LNG Ltd.	Dr. Ashit Vyas MBBS, Medical Officer	02641-300456 (M) 982546911
District Authority			
15	Soum Kumar	Disaster Management Center, Dahej	(02641)256670 (M) 9426253717
16	Shri C.M.Parmar	Gujarat Maritime Board Port officer-Bharuch	(02642)243140 (M) 9925153060
17	District Collector	Bharuch	(02642)240600
18	SDM	Bharuch	(02642)241980
19	Dist. Superintendent of Police	Bharuch	(02642)223633
20	Dy. Superintendent of Police	Bharuch	(02642)269533
21	Mamlatdar	Vagra	(02641)225221
22	Police Inspector	Dahej	(02641)256233
23	Police Sub Inspector	Dahej	(02641)225233
24	District Collector Office Control Room	Bharuch	(02641)225221
25	DSP Office Control Room	Bharuch	(02641)256233
26	Mr. Manoj Kotdiya	DPMC, Ankleshwar	(02641)225233 (M) 9426889616
Industrial, Safety & Health			
27	Director (IS&H)	Ahmedabad	(079)25502349, 25502357
28	Dy. Director	Bharuch	9825453845
Gujarat Pollution Control Board (GPCB)			
29	Shri Hardik Shah	Member Secretary, Gandhinagar	(079)23232152
30	RO-GPCB	Regional Officer, Bharuch	(02642)246333, 248665
Department Of Explosive (CCoE)			
31	Chief Controller- Explosives	Nagpur	(0712)2510103
32	Jt.Chief Cont. Explosive	Mumbai	(022)27575967
33	Dy.Chief Controller Explosive	Vadodara	(0265)2421299
Department Of Environment & Forest (DoEF)			
34	Director (Env.)	Ahmedabad	(079)23252154, 23251062

CHAPTER- 13: INTEGRATION OF SITE ON-SITE EMERGENCY PLAN WITH DISTRICT OFF-SITE PLAN

13.1 PURPOSE OF THE OFF SITE EMERGENCY PLAN:

The main object of the off site plan is to create preparedness and to control various types of emergency/disaster.

The main purposes of the off-site emergency plan are:

1. To provide the local/district authorities, police, fire brigade, doctors, surrounding industries and the public, the baIC information of risk and environmental impact assessment and to appraise them of the consequences and the protection/prevention measures and control plan and to seek their help to communicate with the public in case of a major emergency. This information from every industry enables the District Authorities to educate the public that what can go wrong, the measures taken and to train them of their individual role in case of emergency.
2. To assist the local/District Authorities for preparing the off-site emergency (contingency) plan for the district or particular area to organize rehearsals from time to time and initiate corrective actions based on the lessons learnt. This will include:

   a) To prepare a site plan identifying industries, hazardous points, control points, assembly points, hospitals, dispensaries, fire station, police station, railway station, bus station, transport points, roads and all other requisite details.
   b) To verify the information given by the industries to comprehend dangers and to arrange for adequate personal protective, fire fighting and emergency equipment.
   c) To establish command structure and to identify the respective roles of the senior personnel of various service groups, toxicity control and de-contamination squads and various authorities of water, power, gas, health, labor, environment, revenue, explosive, pollution control, press, post, telephone, wireless, railway, transport and social services etc. Necessary representatives of employers and employees shall also be incorporated. Various organizations, their duties, equipment, implementation procedure and action on-site and off-site, warning system, communication system, co-ordination system, control centers, key personnel shall be prescribed.
   d) Plan to carry out training programmers in safety, health and environmental protection for the concerned parties. Necessary publication will also be useful.

e) To maintain full liaison between all agencies to this plan, industries, emergency services etc.

f) To plan for the antidotes, remedial medicines and equipment in the hospitals and to carry out research for them for latest and effective measures, sufficient stock and mutual aid scheme will be useful.

g) To provide for continuous monitoring system for essential parameters of pollution to judge malfunctioning at the initial stages and warning system at appropriate places. Meteorological information regarding prevailing weather conditions, wind velocity and direction, rain and flood data for such data-collection.

h) To appoint a record keeper, historian and staff to collect information on the causes of disaster and to maintain the record thereof and also of the plan-proceedings.

i) To carry out mock drill and rehearsal of this plan to ensure its efficacy, test and response, interaction and co-ordination of operators, various service organizations, evaluate the effectiveness and adequacy of the equipment and to gain experience and confidence to implement the plan. The finalized Disaster Plan shall be given to all concerned for implementation and rehearsal.

j) To operate this plan at the time of offsite emergency by the Chairman, i.e., the District Collector. Such operation shall include:

   i. To contain, limit, localize and minimize the loss and damage to persons, property and environment arisen from the accident on road or industry, transport, storage or otherwise. To plan to decrease the potential of the disaster.

   ii. To prevent the spread and re-happening of the disaster.

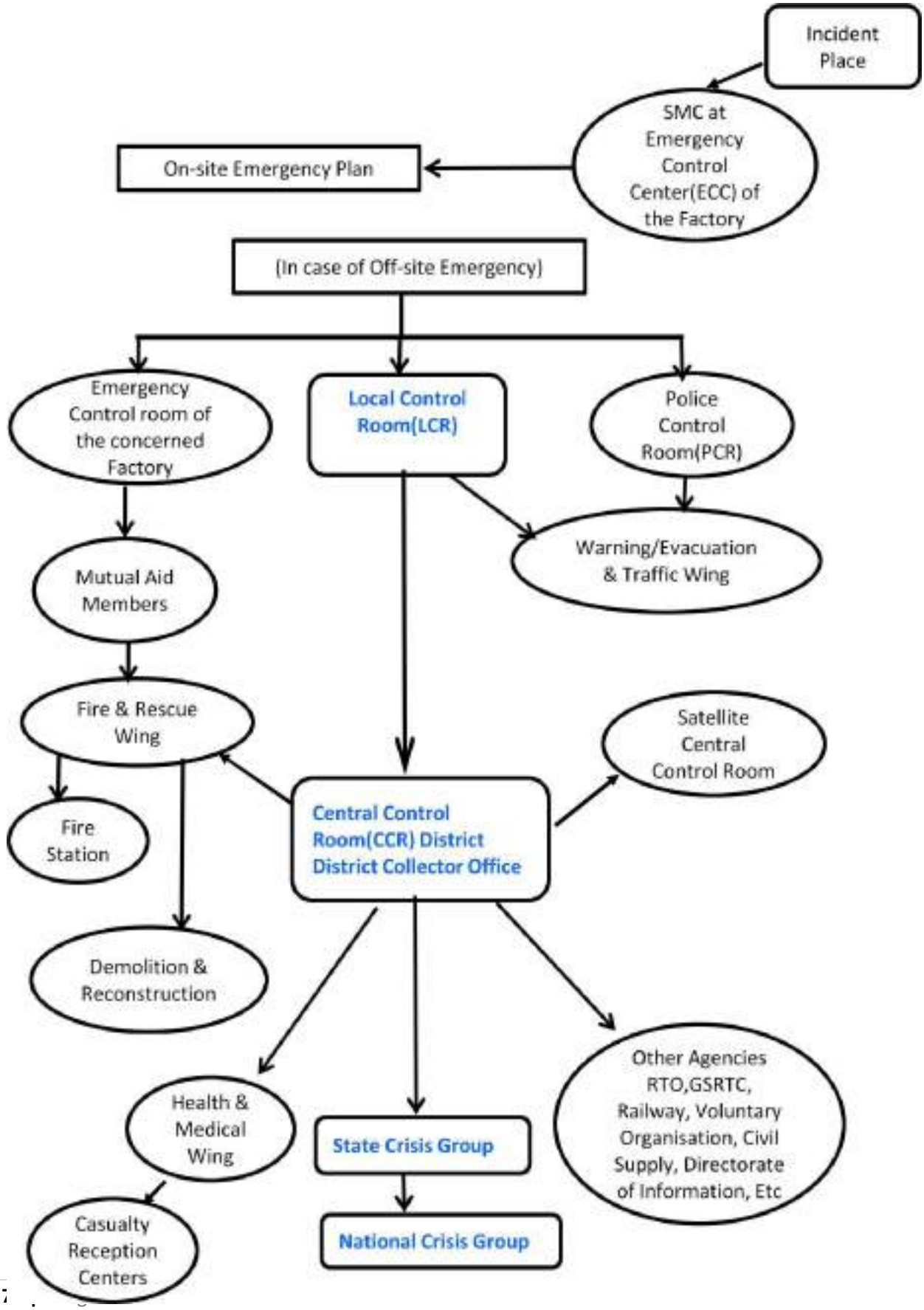
   iii. To inform people and surrounding about emergency and disaster if it is likely to adversely affect them. Machinery will be established for this purpose to guide the people in proper way.

   iv. To plan for rescue and recuperation of casualties and injuries. To plan for relief and rehabilitation.

   v. To plan for evacuation, safe assembly points and transportation required.

   vi. To plan for prevention for harms, total loss and recurrence of disaster. It will be ensured that absolute safety and security is achieved within the shortest possible time.

13.2 A SCHEMATIC DIAGRAM SHOWING ACTION FROM INCIDENT PLACE TO STATE LEVEL GROUP IS SHOWN BELOW:



13.3 ROLES AND RESPONSIBILITIES OF STAKEHOLDERS INCLUDING EXTERNAL AGENCIES

The general responsibilities of the various authorities and agencies involved in mitigation of off-site emergency are listed below. In addition, the authorities and agencies will perform all such tasks as per the demands of emergency situation at hand.

Duties of Site Main Controller

(NOW Co-ordinator & Liaison Man) During Off Site Emergency, Unit's Site Main Controller becomes Co-ordinator & Liaison Man and his duties are as follows:

- He has to extend liaison, co-ordination and facility to the Chairman of local crisis group or Chairman of district crisis group.
- He has to explain about disaster, his efforts and what type of help is needed in brief to Chairman of Local Crisis group (Govt. Authority) and Central Control Room.
- He has to communicate about available resources, fatality/injury to his own employees and probable affected surrounding area with maximum credible scenario.
- He has to keep ready with maps, layout of unit, records, documents, On Site Emergency Plan, M.S.D.S., Details of Process Hazards, Safe Handling procedure on specific hazardous chemicals etc.
- He has to advise for special medical treatment and availability of antidotes.
- He has to divert Communication system for Offsite emergency.
- He has to divert all available resource for Offsite emergency.
- He has to provide aid and assistance for Off Site Emergency.
- Shutdown plant safely, if hazards is not involved.
- He has to reorganize the work of Key personal & essential worker.
- Arrangement of food, water, rest etc. for the person engaged in the duty.
- Arrangement of disposal of contaminated water, effluent, solid waste, etc.

Duties of Incident Controller

- He has to show the actual incident place to offsite action group.

- He has to provide proper information to all incoming off site action group.
- He has to also explain safe route for offsite team members, fire crew members, etc.
- He has to describe available resources, other hazardous material near disaster, available PPE, Neutralizing Media, etc.

He has to show safe & proper parking arrangement for offsite action group members.

District emergency Authority (DEA – District Collector)

- Take overall responsibility for combating the Off -site emergency
- Ensure the Police and Fire, personnel combat the emergency
- Arrange, if necessary, for warning and evacuating the public, through the Department of Police
- Communicate with Media to disseminate vital information to public
- Arrange for dispensing vital information to public using arrangements like mass-sms, public announcement using pre-recorded tapes
- Direct the team of Doctors headed by the Medical Officer
- Direct the local chief of State Transport Corporation to arrange for transport of victims and evacuation of people trapped within the hazard zone, if necessary
- Direct the Electricity Board officials to give uninterrupted power supply
- Direct the official in-charge to provide uninterrupted water supply as required
- If evacuation of population is necessary direct the Revenue officer and the Supply officer to provide safe shelters, food and other life sustaining requirements for the evacuees, if required
- Co-ordinate with the media
- Arrange for, release and provide necessary funds at various stages of disaster mitigation
- Direct railways to stop train, if required

Police

Communicate and co-ordinate with --

- MAH unit
- DEA
- Fire Services

- Transport authorities
- Medical Department
- Media
- Civil Defence and Home Guards
- Local Army establishment as required
- Warn and advice the people in the affected area
- Regulate and divert traffic
- Arrange for evacuation
- Maintain law and order in the area
- Ensure protection of life and property of evacuees
- Deal sternly with people exploiting opportunism in wake of a disaster

Fire Service Department

- Perform fire-fighting operations by deploying men and appliances
- Perform rescue operation in the affected area.
- Communicate and co-ordinate with Police, Medical Department of necessary information
- Keep knowledge on appropriate response to different chemical emergency scenarios
- Keep adequate stock and resource information on necessary means, material, appliances required to deal with particular emergency situations with updated details of suppliers and stockiest

Medical Department

- Arrange for preparing casualties to be sent to government/private hospitals
- Set up temporary medical camp and ensure medical facilities at affected location and neighbourhood
- Keep knowledge on appropriate response to different cases of toxic consumption and injuries
- Set up temporary mortuary, identification of dead bodies and post - mortem

Factory Inspectorate Department

- Provide necessary direction to MAH unit and assistance to DEA, Fire

Department, Medical Department among others

- Seek help from and involve assistance of Technical Experts of relevant and appropriate expertise and specialization
- Initiate, facilitate and provide for investigation into the accident

Occupier of MAH Unit

- Possess up-to-date copy of Off-site Emergency Plan
- Communicate promptly, any foreseeable disaster, to the DEA, Police, Fire Service and Inspector of Factories in-charge of the District
- Communicate changes within the factory that may require inclusion or suitable modification in the off-site plan to the DEA (Maintenance Officer) of the Plan

Technical Experts

- Promptly respond to provide the necessary technical advice to MAH unit, DEA, Factory Inspectors, Fire Department, Medical Department among others
- Provide on-phone help after properly understanding and assessing the situation
- Make visit to the site in co-ordination with DEA, Factory Inspector(s) to provide for appropriate technical assistance

Mutual AID Groups

To quickly mobilize the resources required to emergency mitigation at the site or wherever required

Pollution Control Board

- Project likely areas to be polluted.
- Carry out pollution assessment at suspected locations including soil, river and air assessment
- Ensure controlling of long-term pollution damage
- Identify unidentified substances, chemical releases, if any
- Transport Fleet Owners Including State Transport
- Act on the direction of DEA or Police
- Ascertain the extent of transport required with pick-points, routes and destinations to transport people

- Promptly arrange for dispatch of vehicles with sufficient fuel for evacuation purposes
- Arrange vehicles to transport water and other provision to camps set up

Media

- Disseminate vital information to public on direction of DEA, Police and other Authorities
- Act responsibly in disseminating vital information and dispel rumours, if any

Railways

- Act as per the direction of DEA to stop incoming trains, if required
- Arrange for evacuation, if required

Transporters of Hazardous Chemical

- Possess up-to-date copy of Off-site Emergency Plan
- Communicate promptly, any foreseeable disaster during transportation to the DEA, Police, Fire Service and Inspector of Factories in-charge of the District
- Communicate new assignments, newly added routes or other changes that may require inclusion or suitable modification in the off-site plan to the DEA (Maintenance Officer) of the Plan

Electricity Board

- Arrange for uninterrupted power supply to the plant, as required
- Arrange for lighting; at temporary medical camps etc
- Arrange for switching off power supply on request from District Authorities
- Take care of electrical equipment within the damaged zone

Telecommunication Department

- Ensure working of communication lines to enable effective communication between various responder agencies

Civil Defense

- Co-ordinate with Police authorities

- Extend help in evacuation
- Arrange for round the clock security arrangements in the affected and evacuation areas
- Safeguard the properties and belongings of evacuees

National Disaster Response Force

- Carry out tasks for disaster mitigation as required

Local Government Bodies

- Mobilize necessary resources in emergency mitigation
- Provide for community halls, town halls for evacuees

Public Works Department

- Ensure adequate water supply for fire- fighting
- Arrange for drinking water for evacuated persons at rallying posts, parking yards and evacuation centers. Arrange water for cattle.

Water Supply Board

- Arrange for supply of water to evacuees and all others involved in emergency control operations

Civil Supplies Department

- Arrangement to provide food and clothing as necessary, to the evacuees and all others involved in emergency controlling operations

Regional Transport Authority

- To investigate into the cause of road accident involving hazardous goods carrier and take necessary action

Note: If any incident happens in plant premises responsible person has to rush to the site immediately

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	17/04/2022
Time:	11:00 to 12:00
Faculty:	Mehul Patanvadiya / Krunal Patel
Venue:	Safety office
Topic:	on site emergency plant

Sr. No	Name of Participants	Department	Signature
01	Vaghri Ramesh	New Control Room (H.K.)	[signature]
02	Parmar Indra	HAG Boiler Raj Dev	Indra
03	Rabari Arjun Bhai V.	New Boiler operator	A.V. Rabari
04	Umesh. K. merli	New Boiler operator	U.K. merli
05	Manoj Sah	Shree Ganesh	[signature]
06	Parshuram Kumar Yadav	Shree Mataji	
07	Ashish Yadav	Shree Ganesh	
08	Javid Y. Patel	Pro	Patel J. Y.

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	18/04/2022
Time:	14:30 to 15:30
Faculty:	Mehul Patanvadiya
Venue:	Shed No - 3
Topic:	Tool box talk

Sr. No	Name of Participants	Department	Signature
1	Raju	Pujan	Raju
2	Kanti		कांति
3	Bhavesh		भावेश
4	Rasul		Rasul
5	Santos		संतोष
6	Mirzanjan		मिरजान
7	Pintu		पिंटु
8	Jitendra		जितेन्द्र
9	Vanita		वनिता
10	Manga		मंगा
11	Kaliban		[illegible]
12	Rakesh JCB		Rakesh
13	Pravi		L Babu
14	Mamila		[illegible]
15	Divya		Divya
16	Sarala		[illegible]
17			

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	22/04/2022
Time:	09:45 - 10:15
Faculty:	Varad Bhatt
Venue:	OHC
Topic:	General Safety Induction

Sr. No	Name of Participants	Department	Signature
01	Vasava Suresh Babubhai		
02	Panchu Sahani		Panchu Sani
03	Od Sumit Melsang		
04	Saroj Ben		
05	Bhaliya Hansa Ben		
06	Satishkumar Jambu		Jambu
07	Kadam Singh Pal		Kalam
08	Hajirat Pal		
09	Kailash Pal		

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	25/04/2022
Time:	15:15 to 15:45
Faculty:	Varad Bhatt
Venue:	Conferance hall
Topic:	use of PPES

Sr. No	Name of Participants	Department	Signature
1	Aadil Shaikh	Incinerator	
2.	Nikunj Rana	Warehouse	
3.	Akshay Bhatiya	Warehouse	
4.	Ankit Panchal	mechanical project	
5.	Prashant Patil	Maintenance	
6.	Mayank Trivedi	Project	
7	Dhirubhai Patel	Maintenance	
8	Janki. Kapadia	Environment	
9	Shailesh. B. Patel	Process	
10	Jay Degadiala	Electrical	
11	Pawar mayur	Instr.	
12	Tejas Chauhan	Project	
13	Mehul Prajapati	Instrument	
14.	shoaib mastar	maint.	
15	Vikash Verma	Electrical	
16	Jaguarala Binay	INE	
17	Pratik Patel	INC	
18.	Tushar Pawar	Inc	
	Rana mehul. C	Inc.	

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	04/05/2022
Time:	15:00 to 17:00
Faculty:	Narad Bhatt
Venue:	Shed - 3.
Topic:	Material Handling / use of fire extinguisher

Sr. No	Name of Participants	Department	Signature
	Dhaliwesh Patel	Maintenance	
	Harshit Patel	Project	
	Shreyesh patel	Process	
	Jagruwala Binay	Process	
	Mayank Trivedi	Project	
	Tushar Parmar	Process	
	Akshay Dhatiya	Warehouse	
	Nikunj Rana	Warehouse	
	Ratik Patel	Process	
	Jay Degadwala	Electrical	
	Praghant Patil	Maintenance.	
	Ankit Panchal	Project	
	Akhil Ankumar	Project	
	Vikash	Electrical	
	Prajapati Amit.D	Packing	
	Bam Bam	plant Operation	
	Mohul Rana	"	
	Suresh Vasava	"	

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	11-05-2022
Time:	15:00 to 16:00
Faculty:	Krunal H Patel
Venue:	WHRB Boiler
Topic:	Tool box talk

Sr. No	Name of Participants	Department	Signature
1	ABDUL Khalid	Shree Mataji	
	Laxman	"	
	Hemant	"	
	Ramasingar	"	
	Ashish	"	
	Parbhakar	"	
	Rambhawan	"	
	Dilip	"	
	Arjun	"	
	Ramlala	"	
	Ankit	"	
	Lal saheb		
	Upendar		
	Chandan		
	Anup		

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	27/05/2022
Time:	13:15 to 13:45
Faculty:	Mehul Patanvadiya
Venue:	Safety office
Topic:	Height work Permit

Sr. No	Name of Participants	Department	Signature
1)	Ajay kumar	Hi tech	[illegible]
2)	Kuru yadav	"	[illegible]
3)	Anugar sharma		अनुराग
4)	Krishuna kumar		Kishan
5)	Roni Parsram		Roni
6)	Suraj kumar		Suraj
7)	Ayush kumar		Ayush kumar
8)	Deepak kumar		[illegible]
9)	Jitendra tiwari		[illegible]
10)	Indrdev		[illegible]
11)	Vipul kumar		VIPUL
12)	Niraj kumar		Niraj kumar
13)	Kartik kumar		Kartik kumar

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	30/05/2022
Time:	15:00 to 16:00
Faculty:	~~Sirit~~ Mehul Patemvadiya
Venue:	Shed-01
Topic:	Excavation permit

Sr. No	Name of Participants	Department	Signature
1)	kundan Yadav	Mista const.	
2)	Dinesh	"	
3)	Rupan Yadav	"	
4)	Rihik	"	
5)	Roshan	"	
6)	Dhirsing	"	
7)	Prashant	"	
8)	Lila ben	"	
9)	Belsiya ben	"	
10)	monika ben	"	
11)	Mukesh bhai	"	
12)	Dipen bhai	"	
13)	Bhim bhai	"	
14)	Ritesh bhai	"	
15)	Munna bhai	"	
16)	Sanjay bhai	"	
17)	Roshan bhai	"	
18)	kanji bhai.	"	

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	01/06/2022
Time:	9:30 to 10:00
Faculty:	Dhruv / Mehul
Venue:	PCC Room
Topic:	LOTO

Sr. No	*Name of Participants*	*Department*	*Signature*
1)	Sunil solanki	Helper	Sunil Solanki
2)	Sayyed mohamand Sufiyan	ele	
3)	Mohsin s patel	ele	Patel M.S.
4)	Jakirhusen A	ele	
5)	Gohil Gautam v.	ele helper	Gohil G.V.

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	06/06/2022
Time:	10:15 to 10:45
Faculty:	Mehul Patanvadiya / Dhruv Jadav
Venue:	Conference hall
Topic:	Safety Awareness

Sr. No	Name of Participants	Department	Signature
1	Surendra	Lab. Helper	
2	Shaikh Athamesh	Boiler operater	
3	Nisarg. D. Bhatt	"	Nisarg
4.	Arjun . Rabari	"	A.V.Rabari
5.	Dinesh Bhai	MEE Helper	
6.	Arvind Bhai	"	
7.	Manhar Gohil	"	
8.	Valay Patel	ETP Engg.	
9.	Inamul & Ashu	RO operator	
10.	Bharat Vaseval	"	
11.	Afjal Pathe	MEE operater	
12.	Gohil Akshay	Drum Plant	
13.	Jaspal R. Patel	fitter	PATELJR.
14.	Jay MODI	"	
15.	Ashok Gohil	" Helper	
16.	Dhiraj bhai	Hi-Tech.	
17.	Rahul Vasava	Pcc Helper	Rahul
18.	Karan Vasava	Engg.	

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	24/06/2022
Time:	10:00 to 10:30
Faculty:	Mehul Patanvadiya
Venue:	Safety office
Topic:	Behaviour safety

Sr. No	Name of Participants	Department	Signature
1	Santos	Civil	Santosh
2	Dablu	DABL	DABLU
3	Pavan	Rajdan cont	Pavan
4	Dipak		Dipak
5	Nirajan		Nirajan
6	Jitendra		Jitendra
7	Pinty		Pinty
8	Rajul		Rajul
9	Manila		Manila
10	Dineen		Dineen
11	Kanti		Kanti
12	Mangal		Mangal
13	Kali ben		Kali ben
14	Ravi		Ravi
	Jeevan Rathod		Jeevan

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	13/07/2022
Time:	15:00 to 18:30
Faculty:	Varad Bhatt
Venue:	New control Room
Topic:	Operation of fire hydrant system

Sr. No	Name of Participants	Department	Signature
1	Vikash Kumar	Electrical	[signature]
2	Ankit Panchal	mechanical	[signature]
3	Akhil Anilkumar	Mechanical	[signature]
4	Vasantikar bhavsar	Project	[signature]
5	Binesh Jayyawala	process	[signature]
6	Nikunj Rami	"	[signature]
7	shailesh patel	"	[signature]
8	Dharmesh patel	maintenance	[signature]
9	lalit patel	process	[signature]
~~10~~	~~RAHUL MEHUL~~	~~Project~~	
10.	Tushar Parmar	I&C	[signature]
11	Vatsal Patel	Process	[signature]
12	Pawan meyn	Instrument	[signature]
13	Lakeet Patel	Process	[signature]
14	Mehul Padamvasiya	fire	[signature]
15	Krunal Patel	fire	[signature]
16	fizun patel	fire	[signature]
17	Armaan Patel	fire	[signature]

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	18/07/2022
Time:	11:30 to 12:00
Faculty:	Mehul Patanvadiya
Venue:	INC Plant
Topic:	USE OF PPEs

Sr. No	Name of Participants	Department	Signature
1	Anil Nishad	Riya	Anil Nishad
2	Sumit Nishad	Infotech	सुमित निषाद
3	Amar Nishad	Riya Infotech	Amar Nishad
4	Aman Nishad	"	अमन निषाद
5	Vishal Gond	"	विशाल गोंड
			5

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	22/07/2022
Time:	11:30 to 12:00
Faculty:	Varad Bhatt
Venue:	Charging Area.
Topic:	How to use Air line Manifold.

Sr. No	Name of Participants	Department	Signature
01	Ankit Panchal	Project-mech	Ankit
02	Nilkunj Rana	Warehouse-Process	[illegible]
03	Suresh vasava	"	suresh
04	suresh B vasava	"	[illegible]
05	Arvind Padihar.	"	Arvind
06	Arun Jadav.	"	Arun
	NA.		

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	25/07/2022
Time:	10:30 to 11:15
Faculty:	Dhruv / Krunul
Venue:	Bhavuni coork shop
Topic:	Hot coork permit

Sr. No	Name of Participants	Department	Signature
01.	Ramesh Sharma.	Bhavani	R. Sharma.
02.	Mohan Yadav.		
03.	Mahangu Sahani		MAHANGU
04.	Satish Sharma		
05.	Balindra kumar.		Balindra kumar
06.	Shivbahadur Shah		Shivbahadur
07.	Sanjeet Sahani.		संजीत कुमार
08.	Ramesh Shah.		रमेश साह
09.	Amanjeet Yadav.		अमर जीत यादव
10.	Krishna jaiswal.		Krishna Jaiswal
11.	Amit kumar.		अमित
12.	Satyendra kumar		
13.	Tilak kushwaha.		
14.	Prayag kushwah.		
15.	Ranjeet kumar Sharma		
16.	Rinbal kushwaha.		
17.	Vinay kumar Rawat		विनय कुमार
18.	Kanhaiya prasad.		Kanhaiya

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	4/08/2022
Time:	10:00 to 10:30
Faculty:	Mehul Patanvadiya
Venue:	INC plant
Topic:	work permit

Sr. No	Name of Participants	Department	Signature
1.	Mustaque Ansari	S.R.Insulation	M.Ansari
2.	Imroj Ansari	"	
3.	Kausar Ansari	"	
4.	Mainuddin Ansari	"	
5.	Mustafa Ansari	"	
6.	Keyamuddin Ansari	"	

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	14/08/2022
Time:	14:30 to 15:00
Faculty:	Mehul Patanvadiya
Venue:	WHRB Boiler
Topic:	Use of fire extinguisher

Sr. No	Name of Participants	Department	Signature
1	Vijay Yadav	Ashutosh Enterprise	
2	Mukesh Kumar	"	
3	Ram Lakhan Rajbhar	"	
4	Jitendar Rajbhar	"	
5	Pawan Kumar	"	
6	Shivnarayan Mandal	"	
7	Ujjval R. Singh	"	

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	22/08/2022
Time:	10:15 to 10:30
Faculty:	Mehul Patamvasiya
Venue:	Safety office
Topic:	General Safety Induction

Sr. No	Name of Participants	Department	Signature
1	DHRUVIK . ADHVARYU	W/B	
2	Rami Dayesh	EL	
3	Mackl Ronelk		

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	29/08/2022
Time:	10:30 to 11:00
Faculty:	Kaynal Patel / Mehul
Venue:	Drum plant
Topic:	Material Handling

Sr. No	Name of Participants	Department	Signature
01	Gohil Akshay	Drum plant	
02	Praveen	"	P. Kevat
03	Khushal	"	
04	Righesh	"	
05	Santosh	"	
06	Pankaj	"	Pankaj
07	Rangdev	"	Rangdev

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	02/9/22
Time:	10:15 to 10:40
Faculty:	Kaynal Patel
Venue:	Project Area
Topic:	Safety Awareness

Sr. No	Name of Participants	Department	Signature
1.	Mustaque Ansari	S.R.Insulation	M.Ansari
2.	Imroj Ansari	"	Imroj.
3.	Kausar Ansari	"	
4.	Mairuddin Ansari	"	
5.	Mustafa Ansari	"	Mustafa
6.	Keyamuddin Ansari	"	

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	08/09/2022
Time:	15:00 to 16:00
Faculty:	Varad Bhatt
Venue:	Project Area
Topic:	Operation of fire hydrant system

Sr. No	Name of Participants	Department	Signature
1	Pashupati Mit	Fitter	[signature]
2	Bhumbhan Mandal	Production opp	Bhumbhan
3	Ashwin Bhalgod	Instrument	[signature]
4	Mahes Gohi	Fitter	[signature]
5	Gohil Mukesh. A	Fitter	[signature]
6	Yagnes patel	Store	Yagnes
7	Suresh M. Vasava	INCI	Suresh
8	Rorak Gadkari	ETP	[signature]
9	Jenid. Y. Patel	INC Plant	Patel J Y
10	Shivam Singh	Civil	[signature]
11	Prajapati Amit	INC plant	[signature]
12	mehul. C. Rana	INC plant	Rana M
13	Dephrath	Sadrasan	[signature]
14	Jitendra	"	Jitendra
15	Vakil	"	[signature]
16	Sikendra	"	Sikendra singh
17	Jitendra singh	"	[signature]
		"	

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BEIL INFRASTUCTURE LTD-DAHEJ

INTERNAL/EXTERNAL/INDUCTION TRAINING ATTENDANCE SHEET

Date:	12/09/2022
Time:	15:30 to 16:00
Faculty:	Mehul Patanvadiya
Venue:	INC Plant
Topic:	Behaviour safety

Sr. No	Name of Participants	Department	Signature
1	Deepak Chand	mechanical	Deepak
2	Pasupati Chauhan	"	पशुपति
3	Dharmendra Sah	"	धर्मेन्द्र
4	Rohit yadav	"	Rohit
5	Pradeep Rajbhar	"	प्रदीप
6	Ujjval singh	"	Ujjval

POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR NOISE MONITORING

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0046** Issue Date : **06/05/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

NOISE LEVEL MONITORING REPORT

Sampling Date	:	**29/04/2022**
Test Method	:	**IS 9876 / IS 9989**
Sampling Location	:	**As per table**
Sampling By	:	**Pollucon Laboratories Pvt. Ltd.**
Protocol (purpose)	:	**Environmental Monitoring**

RESULT TABLE

SR. NO.	SAMPLING LOCATION	OBSERVATIONS	
		DAY Time dB(A)	NIGHT Time dB(A)
1	Near Main Gate	68.4	55.1
2	Behind Admin Building	63.8	54.4
3	Near EB-1 Bore well	67.6	56.2
4	Behind Landfill Cell No-04	61.2	42.8
5	Near Drum shed Area	68.6	62.4
6	Opposite Khetan Industries	64.4	55.6
7	Near stabilization Plant	67.8	58.4
8	Near DG Set	64.3	59.2
9	Near Monsoon Shed (New)	66.6	53.4
	GPCB CONSENT LIMIT#	75 dB (A)	70 dB (A)

#As per consent order No. AWH-89137 Date of issue: 02/11/2017 Valid Up to: 31/07/2022.
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR NOISE MONITORING

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0061**
	Issue Date	: **21/05/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

NOISE LEVEL MONITORING REPORT

Sampling Date	:	**11/05/2022**
Test Method	:	**IS 9876 / IS 9989**
Sampling Location	:	**As per table**
Sampling By	:	**Pollucon Laboratories Pvt. Ltd.**
Protocol (purpose)	:	**Environmental Monitoring**

RESULT TABLE

SR. NO.	SAMPLING LOCATION	OBSERVATIONS	
		DAY Time dB(A)	NIGHT Time dB(A)
1	Near Main Gate	67.1	53.5
2	Behind Admin Building	60.4	52.2
3	Near EB-1 Bore well	63.2	50.1
4	Behind Landfill Cell No-04	59.6	44.3
5	Near Drum shed Area	67.2	61.6
6	Opposite Khetan Industries	59.4	53.4
7	Near stabilization Plant	67.4	52.1
8	Near DG Set	68.4	57.5
9	Near Monsoon Shed (New)	61.4	50.8
	GPCB CONSENT LIMIT#	75 dB (A)	70 dB (A)

#As per consent order No. AWH-89137 Date of issue: 02/11/2017 Valid Up to: 31/07/2022.

1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR NOISE MONITORING

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0075**
	Issue Date	: **07/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

NOISE LEVEL MONITORING REPORT

Sampling Date	:	**23/06/2022**
Test Method	:	**IS 9876 / IS 9989**
Sampling Location	:	**As per table**
Sampling By	:	**Pollucon Laboratories Pvt. Ltd.**
Protocol (purpose)	:	**Environmental Monitoring**

RESULT TABLE

SR. NO.	SAMPLING LOCATION	OBSERVATIONS	
		DAY Time dB(A)	NIGHT Time dB(A)
1	Near Main Gate	60.5	53.2
2	Behind Admin Building	54.4	51.8
3	Near EB-1 Bore well	58.8	52.1
4	Behind Landfill Cell No-04	52.8	43.6
5	Near Drum shed Area	65.9	62.4
6	Opposite Khetan Industries	56.2	50.9
7	Near stabilization Plant	60.4	52.2
8	Near DG Set	67.2	56.9
9	Near Monsoon Shed (New)	61.4	45.8
	GPCB CONSENT LIMIT#	75 dB (A)	70 dB (A)

#As per consent order No. AWH-89137 Date of issue: 02/11/2017 Valid Up to: 31/07/2022.

1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR NOISE MONITORING

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0094**
	Issue Date	: **21/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

NOISE LEVEL MONITORING REPORT

Sampling Date	:	**11/07/2022**
Test Method	:	**IS 9876 / IS 9989**
Sampling Location	:	**As per table**
Sampling By	:	**Pollucon Laboratories Pvt. Ltd.**
Protocol (purpose)	:	**Environmental Monitoring**

RESULT TABLE

SR. NO.	SAMPLING LOCATION	OBSERVATIONS	
		DAY Time dB(A)	NIGHT Time dB(A)
1	Near Main Gate	63.1	51.5
2	Behind Admin Building	54.8	50.4
3	Near EB-1 Bore well	59.1	48.2
4	Behind Landfill Cell No-04	50.7	42.1
5	Near Drum shed Area	68.2	60.7
6	Opposite Khetan Industries	58.6	50.4
7	Near stabilization Plant	61.8	51.5
8	Near DG Set	65.9	60.9
9	Near Monsoon Shed (New)	60.8	48.6
	GPCB CONSENT LIMIT#	75 dB (A)	70 dB (A)

#As per consent order No. AWH-89137 Date of issue: 02/11/2017 Valid Up to: 31/07/2022.
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR NOISE MONITORING

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0101**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

NOISE LEVEL MONITORING REPORT

Sampling Date	:	**13/08/2022**
Test Method	:	**IS 9876 / IS 9989**
Sampling Location	:	**As per table**
Sampling By	:	**Pollucon Laboratories Pvt. Ltd.**
Protocol (purpose)	:	**Environmental Monitoring**

RESULT TABLE

SR. NO.	SAMPLING LOCATION	OBSERVATIONS	
		DAY Time dB(A)	NIGHT Time dB(A)
1	Near Main Gate	65.5	50.3
2	Behind Admin Building	55.9	48.1
3	Near EB-1 Bore well	62.1	53.4
4	Behind Landfill Cell No-04	52.6	43.6
5	Near Drum shed Area	70.6	63.7
6	Opposite Khetan Industries	60.2	47.2
7	Near stabilization Plant	63.8	50.1
8	Near DG Set	66.9	56.1
9	Near Monsoon Shed (New)	65.3	50.8
	GPCB CONSENT LIMIT#	75 dB (A)	70 dB (A)

#As per consent order No. AWH-89137 Date of issue: 02/11/2017 Valid Up to: 31/07/2022.
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR NOISE MONITORING

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0114**
	Issue Date	: **08/10/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

NOISE LEVEL MONITORING REPORT

Sampling Date	:	**30/09/2022**
Test Method	:	**IS 9876 / IS 9989**
Sampling Location	:	**As per table**
Sampling By	:	**Pollucon Laboratories Pvt. Ltd.**
Protocol (purpose)	:	**Environmental Monitoring**

RESULT TABLE

SR. NO.	SAMPLING LOCATION	OBSERVATIONS	
		DAY Time dB(A)	NIGHT Time dB(A)
1	Near Main Gate	61.6	52.4
2	Behind Admin Building	57.8	51.2
3	Near EB-1 Bore well	60.4	52.1
4	Behind Landfill Cell No-04	48.2	39.8
5	Near Drum shed Area	68.1	64.6
6	Opposite Khetan Industries	57.4	49.6
7	Near stabilization Plant	63.4	52.9
8	Near DG Set	68.1	61.2
9	Near Monsoon Shed (New)	66.8	50.6
	GPCB CONSENT LIMIT#	75 dB (A)	70 dB (A)

#As per consent order No. AWH-89137 Date of issue: 02/11/2017 Valid Up to: 31/07/2022.
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

Annexure 13

STAMP OF APPROVAL 1/3

SITE PLAN
SCALE:-1:10MT.

KEY PLAN
SCALE:-1:CM=40MT.

NOTE: PREVIOUSLY PLAN APPROVED BY JDIR/IS & H/F SURAT REGION WIDE LETTER NO-**1637** DATE :01/04/2016

BLDG.NAME

1. SECURITY CABIN
2. ADM.BUILDING & LAB.
3. MCC,PCC & DG ROOM
4. WEIGH BRIDGE
5. FRESH WATER TANK
6. STORAGE SHED
7. DUMPER TYER WASHING
8. U/G WATER TANK
9. EFFLUENT TANK
10. TANKER DE-CONTAMINATION SHED
11. DRUM DE-CONTAMINATION & DRUM STACKING PLATFORM & ETP TANK & TANK FARM
12. FIRE WATER TANK

12/A FIRE WATER TANK

13. ELE. ROOM + D.G.SET
14. CONDENSATE WATER TANK
15. AQUEOUS WASTE STORAGE TANK
16. CENTRIFUGE SHED
17. MEE PLANT
18. COOLING TOWER
19. BOILER SHED & F.O. TANK
20. CANTEEN
21. ELE. ROOM
22. ELE. ROOM
23. SPRAY DRYING PLANT
24. DM TANK
25. TOILET BLOCK
26. ELE.+CONTROL ROOM
27. STRIPPER PLANT

COLOUR CODE

1. PLOT BOUNDRY IS SHOWN
2. EXTENSION AREA IS SHOWN
3. APPROVED AREA IS SHOWN
4. FIRE HYDRANT LINE IS SHOWN

EXTENSION PLAN SHOWING FACTORY BLDG. WITH M/C LAY OUT

BHARUCH ENVIRO INFRASTRUCTURE LTD.

PLOT NO : 43
G.I.D.C., DAHEJ
TAL:- VAGRA
DIST : BHARUCH.

SIGN OF OWNER

TITLE : SITE PLAN & KEY PLAN

SCALE	DATE	DRAWN BY:-	DRG.NO.
1:100	07/03/17	K.G.VEKARIA M.98244-77343 95588-21836	1/3

Tree Plantation Photographs

Photographs of Drip Irrigation

દહેજ ગામ પંચાયત

DAHEJ GAM PANCHAYAT

મુ.પો. દહેજ, તા. વાગરા, જી. ભરૂચ.

AT. & Po. DAHEJ, TA. VAGRA, DIST. BHARUCH.

તા.૬-૮-૨૦૧૮

પ્રતિ શ્રી,

મેનેજર શ્રી
ભરૂચ એન્વાયરો ઈન્ફ્રાસ્ટ્રક્ચર લી.
પ્લોટ નંબર ડી. ૪૩
દહેજ

વિષય:- ઓજે દહેજ ઈન્ડસ્ટ્રીયલ એસ્ટેટ સ્થીત નજીક ના વિસ્તારો માં વૃક્ષારોપણનું આયોજન આપવા બાબત.

રેફરન્સ:- આપનો તા. ૩/૮/૧૮ નો પત્ર.

અમારી ગ્રામ્ય પંચાયતે સામુહિક રીતે વેના પાંચ(૫) વર્ષમાં આપની કંપની સાથે અને ગામ પંચાયત સાથે નીચે મુજબનું આયોજન કરેલ છે.

(૧) બળીયાદેવ મંદિર તથા ભાથીજી મહારાજનું મંદિર વર્ષ ૨૦૧૮-૧૯
(૨) જુનાગામ ટેમ્પલ વર્ષ ૨૦૧૯-૨૦૨૦
(૩) છડા હાઈસ્કુલ વર્ષ ૨૦૨૦-૨૦૨૧
(૪) દહેજ ચોકડી થી ગામ સુધી વર્ષ ૨૦૨૧-૨૦૨૨
(૫) રામજી મંદિર વર્ષ ૨૦૨૨-૨૩

વૃક્ષારોપણ માટે જરૂરી છોડ તથા છોડના રક્ષણ માટે ટ્રી પ્રોટેક્ટર કંપની દ્વારા પુરા પાડવાના રહેશે.

આભાર સહ.

સરપંચ
ગામ પંચાયત - દહેજ
તા.વાગરા, જી.ભરૂચ

ગામ પંચાયત - દહેજ
તા. વાગરા, જી. ભરૂચ

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Ref: BEIL/DAHEJ/2015

30th July, 2014

PCD-ID 40137

To,
Ministry of Environment, Forest and Climate Change,
Regional Office, Western Region,
Kendriya Paryavaran Bhavan,
Link road 3
E-5, Ravishankar Nagar
Bhopal-462016

Kind Attn: Dr. A. Mehrotra, Director (S)

Subject: Compliance with point no. 64 and 70 of Environmental Clearance

Reference: Environmental Clearance order no. SEIAA/GUJ/EC/7(D)/227/2013, Dated 22/07/2013

Dear Sir,

Bharuch Enviro Infrastructure Ltd., is a Secured Landfill Facility for Hazardous waste at Dahej Industrial Estate. We had received our Environmental Clearance for our TSDF and MEE facility at Plot no. D-40, Dahej Industrial Estate, Tal. Vagra, Dist. Bharuch (Gujarat) in category 7(d) of Schedule annexed with EIA Notification dated 14/09/2006, vide order no. SEIAA/GUJ/EC/7(D)/227/2013, Dated: 22/07/2013

We would like to submit the following information in compliance to Point No.64 & 70 of the said Environmental Clearance.

1. Date of Application for loan : 24.10.2012
2. Financial Closure (Date of Sanction of Loan) : 07.03.2014 (Copy Attached)
3. Drawings Approved by IIT, Delhi on : 21.10.2013 (Copy Attached)
4. Land Development and construction work Started on : 13.09.2014
5. Date of Commissioning : 29.04.2015

Please consider the above details. Copy of Environmental Clearance Attached.

Thanking you,

For, Bharuch Enviro Infrastructure Ltd. (Dahej Unit)

B. D. Dalwadi
Chief Executive Officer

C.C: (1) State Level Environment Impact Assessment Authority
Gujarat Pollution Control Board,
"Paryavaran Bhavan" Sector 10-A,
Gandhinagar 382010

(2) Mr. K. C. Mistry – Sr. Environment Engineer, GPCB, Gandhinagar

(3) The Regional Officer, GPCB, Bharuch

DGVCL
DAKSHIN GUJARAT VIJ COMPANY LIMITED
DGVCL DAHEJ SUB DIVISION OFFICE
66KV DAHEJ SS COMPOUND, DAHEJ-AMOD CHOWKDI, PORT ROAD, DAHEJ-392130 PH.NO.02641-256123, 8758338214

DHJ/TECH/ 2454

Date:- 20/09/2018

No. Dahej/O&M/Estt/Tech/Billing 24/28
Dakshin Gujarat Vij Co. Ltd.
O & M Sub. Division, Dahej.

Appreciation Letter

To,
M/s. Bharuch Enviro Infrastructure Ltd.,
P.No. D-43, GIDC Estate,
Dahej Ta. Vagra, Dist. Bharuch.

Sub.:-Appreciation Regarding Tree plantation at DGVCL, Dahej sdn office.

With reference to the above subject M/s. Bharuch Enviro Infrastructure Ltd. had arranged tree plantation program on dated:21.08.18 as per this office request in our office premises. We are very thankful of M/s. Bharuch Enviro Infrastructure Ltd. for this noble "Save Environment" activity.

Thanking you.

20/09/18
Deputy Engineer (O&M)
Dahej S/Dn,
DGVCL

વાવ ગ્રામ પંચાયત

મુ.પો. વાવ. તા. વાગરા. જી. ભરૂચ.

ક્રમાંક : જાવક નં.

પ્રતિ શ્રી, તા. - -૨૦૧

શ્રી મેનેજર સાહેબ
CSR યુ.પી.એલ લીમીટેડ

આથી અમો આપનો આભાર વ્યક્ત કરતા આનંદ અને ગૌરવની લાગણીઓ અનુભવીએ છીએ કે યુ.પી.એલ કંપની દ્વારા અમારા ગામની આવેલી ગૌચર જમીનમાં 6 એકર વનીકરણની કામગીરી કરેલ છે.

જે યુ.પી. એલ કંપની અને BEIL દ્વારા કરવામાં આવેલ વનીકરણથી ભવિષ્યમાં પર્યાવરણ અને લોકોની સુખાકારીમાં એકદમ ઘણા સારા પરીણામ આવશે એવું અમારુ માનવું છે. આવી જ રીતે અમારા ગામના અન્ય લોકોની સુખાકારીના કામો કરતા રહો એવી અમો તમારી પાસે અપેક્ષા રાખીએ છીએ, અને અમો તમારો અમારા ગામ તથા ગ્રામ પંચાયત તરફથી તમારો હૃદયપૂર્વક આભાર માનીએ છીએ. જય હીંદ જય ભારત.

સરપંચ
ગ્રામ પંચાયત - વાવ
તા. વાગરા, જી. ભરૂચ

ઠાકોર[illegible]

નાંદરખા ગ્રામ પંચાયત

મુ.પો. નાંદરખા. તા. વાગરા. જી. ભરૂચ.

ક્રમાંક : 　　　　　　　　　　જાવક નં.

તા. 03-06-2016

પ્રતિ શ્રી,

રિપોર્ટ

ગ્રામ પંચાયત નાંદરખા
તા- વાગરા, જિ- ભરૂચ

વિષય:- વૃક્ષ ઝાંખરડા ગાંડા બાવળ કાપવા બાબત.

આપશ્રી સહ ઉપરોક્ત વિષયના અનુસંધાને લખી જણાવવાનું કે મોજે ગામ નાંદરખા તા- વાગરાના ગામે વૃક્ષો આવેલ છે. સિવાય આજુ બાજુ રસ્તાના કિનારે વૃક્ષોનું વાવેતર કરવાનું થાય છે. તો આપશ્રી ગ્રામ પંચાયતને જ વૃક્ષ ઝાંખરડા ગાંડા બાવળ કાપવા. આપવા આપ સાહેબશ્રીને આપશ્રી નમ્રતાથી અરજ છે.

(સહી)
તલાટી કમ મંત્રી
ગ્રામ પંચાયત - નાંદરખા
તા. વાગરા, જી. ભરૂચ

(સહી)
સરપંચ
ગ્રામ પંચાયત-નાંદરખા
તા. વાગરા, જી. ભરૂચ

BEIL

BHARUCH ENVIRO INFRASTRUCTURE LTD.

Pad Copy

Plot No - 43,G.I.D.C Dahej - 392 130

Phone : 02641-291129

CHALLAN CUM GATE PASS

(NON -RETURNABLE)

NO. 0228

M/s. Nandarkha Gram Panchayat
Village - Nandarkha
Ta - Vagra
Di - Bharuch

Date : 03/08/2019

Carrier: GJ 16 W 7383

L.R.No.:

Date : 03/08/2019

Sr. No.	Item Description	Quantity	Purpose	
1	Tree Guard (CSR activity)	40 NOS	Loan Sample Party Goods Empty Carbo Drums/Cylinders Others	for Tree plantation at Village Nandarkha Ta. vagra

Prepared by	Authorised by	Security Dept.	1 Please return duplicate copy while receiving materials.
G. P. Requested by		Out	Received the items stated above in good condition and as per quantity
		In	
Dept. CSR	Permitted by	Checked by	Receiver's Signature with Stamp

ગામ પંચાયત કડોદરા

મુ.પો. કડોદરા, તા. વાગરા. જી. ભરૂચ.

સરપંચ :અરવિંદભાઈ સી. પરમાર M. 9998821712

ક્રમાંક :   જા.નંબર :

દાખલો   તા. ૨૬-૧૦-૨૦૨૦

પ્રતિ શ્રી,

BEIL Infrastructure Ltd.
Dahej.

જય ભારત સહ જણાવવાનું કે કડોદરા
તા. વાગરા. જિ. ભરૂચ ના ગામે આપની કંપની
બાઈ રબાઈ એલ ઈ… તરફથી વૃક્ષો વાવવા
માટે ના પિંજરા આપેલ છે જે બદલ અમારી
પંચાયત આભાર વ્યક્ત કરે છે
વધુમાં ભવિષ્ય કોઈ જરૂરીયાત ઉભી
થાય તે આપ અમને આપના ભાગમાં કરીશો
હશે

" સહકાર બદલ આભાર "

પરમાર અરવિંદ સી
સરપંચ
ગ્રામપંચાયત-કડોદરા
તા. વાગરા, જી. ભરૂચ

TREE PLANTATION AT COMPOST SITE IN DAHEJ

BEIL INFRASTRUCTURE LTD.

Plot No.9701-16, GIDC, Ankleshwar.

PROCEDURE TO BE FOLLOWED FORLANDFILL MEMBERSHIP

01. Application in standard from (Available at BEIL)
02. Document to be submitted with Application.
    - (i) List of Directors.
    - (ii) List of Raw Materials.
    - (iii) Effluent Treatment flow sheet diagram on letter head
    - (iv) Solid Waste storage facility details & storage capacity with Storage shed Picture on letter head.
    - (v) Plant layout with highlight of storage area.
    - (vi) Authorization (Solid Waste) copy of GPCB.
    - (vii) Sludge Analysis Report by approved Laboratory by GPCB.
    - (viii) SSI Certificate (MSME) & Udyam Registration Certificate
    - (ix) Plot Allotment Letter.
    - (x) Board Resolution / Partnership Deed Copy
    - (xi) Payment details E.g. - cheque or details of online payment transaction.
    - (xii) E –Stamp RS.300/- with first party company's name and second party BEIL Infrastructure Limited, for landfill agreement purpose.
    - (xiii) Membership form with proper filled information along with authorize signature and stamp
    - (xiv) GST Acknowledgment No:-
    - (xv) Aadhar card of authorized signatory
    - (xvi) CA certificate of investment with turnover detail.
03. On clearance / scrutinize of Application, fees to be paid by **Cheque / D.D / RTGS / NEFT payable at Ankleshwar (Capacity Commitment Charge / Member Ship Fess Non Refundable).**
    - (a) **Bharuch District - Small Scale Member**
        - Rs.1200/- Per MT Annual Quantity for SSI Member – Maximum Rs.2 Lacs.
        - Rs.500/- Extra as Admin Charge For Agreement Notary purpose.
        - GST @ 18% (CGST @ 9% and SGST @ 9%)
04. On clearance / scrutinize of Application, fees to be paid by **Cheque / D.D / RTGS / NEFT payable at Ankleshwar.**
05. **RS.300/- E-Stamp with your organization name and BEIL Infrastructure Ltd. , submitted** to BEIL. After submission of stamp papers, after 15-20 days for agreement. Please contact the following address:

    Mr. Rajeev Mathur
    BEIL INFRASTRUCTURE LTD.
    Plot No.9701-9716, GIDC Inds. Estate,
    Ankleshwar – 393 002.
    Tel. No.(02646) 253135, 225228
06. Agreement to be signed by Authorised person approved by members Board of Directors proof to be submitted.
07. BEIL will issue a **certificate** after signing Agreement.
08. Member has to obtained a valid authorisation from GPCB mentioning permission disposal of solid waste at BEIL. Its copy to be submitted to BEIL otherwise waste not be accepted.
09. A TREM CARD to be submitted to BEIL and to be used for every consignment of waste.
10. Operation charges are to be paid in advance by local Chequ / D.D. as per enclosed sheet.
11. Only following solid waste are accepted as per authorisation given by GPCB to BEIL.

Sr.No.	Waste	Sr.No.	Waste
01.	Gypsum Sludge	06.	Waste Insulation Material
02.	ETP Sludge	07.	Non Recyclable Plastic Waste
03.	Iron Sludge		
04.	Incineration Ash Sludge.		
05.	Brine Sludge		

BEIL INFRASTRUCTURE LTD
Plot No.9701-9716, GIDC, ANKLESHWAR
Tel No.(02646)253 135, 225 228

APPLICATION FORM

1.	Name of the unit	:
2.	Names of Directors / Partners	:
3.	Address	:
4.	Type of Industry	: Small Scale / Medium Scale / Large Scale
5.	Qty. of solid waste expected to be disposed off in the landfill per annum.	:
6.	**Capacity Commitment Charge / Membership paid by D. D. Payable at Ankleshwar.**	: DD No._____ Date_____ Drawn on_____ for Rs._____

I/We have gone through the details of the landfill facility proposed to be developed at Ankleshwar GIDC Estate. We agree to become a member of the proposed company and would like to utilize the facility on a long term basis. We shall make further payments against equity as shown in the covering letter.

Place :

Date : **(Signature & Rubber Stamp)**

BEIL INFRASTRUCTURE LTD
Plot No.9701-9716, GIDC, ANKLESHWAR
Tel No.(02646)253 135, 225 228

SOLID WASTE DATA

PART – I UNIT INFORMATION

a. Name of the Unit :

b. Unit In-Charge :

c. Address of the Unit :

Phone No.:

Email Add:

d. Location : ANKLESHWAR / PANOLI / JHAGADIA

Sector (Tick) √ :

(1) **Drugs &Pharma** ☐ (2) Dyes & Inter ☐

(3) Pesticides ☐ (4) Organic ☐

(5) Inorganic ☐ (6) Others ☐

PART-II PRODUCTS AND BY-PRODUCTS MANUFACTURED:

Major Products/ By-Products	**Quantity Per Year**

PART-III

(a) Would you like to avail the facility of proposed Centralized Secured Landfill at Ankleshwar Industrial Estate : Yes / No

(b) If yes, mention the quantity of solid waste to be disposed off. : / Year

(c) Do you have the facility of storing the solid waste in monsoon? : Yes /-No

(d) Whether the unit is having Authorization from GPCB ? If yes attach a copy of the same

BEIL INFRASTRUCTURE LTD
Plot No.9701-9716, GIDC, ANKLESHWAR
Tel No.(02646)253 135, 225 228

PART-IV SOLID WASTE INFORMATION

(A) INFORMATION ABOUT SOLID WASTE TO BE LAND FILLED:

Type of Solid Wastes	Source	Physical property (Slurry / Sludge / Solid)	Quantity	
			Ton Per Day	Ton Per Year
1. Gypsum / Lime Sludge				
2. ETP Sludge				
3. Iron Sludge				
4. Incineration Ash				
5. Brine Sludge				
6. Others				

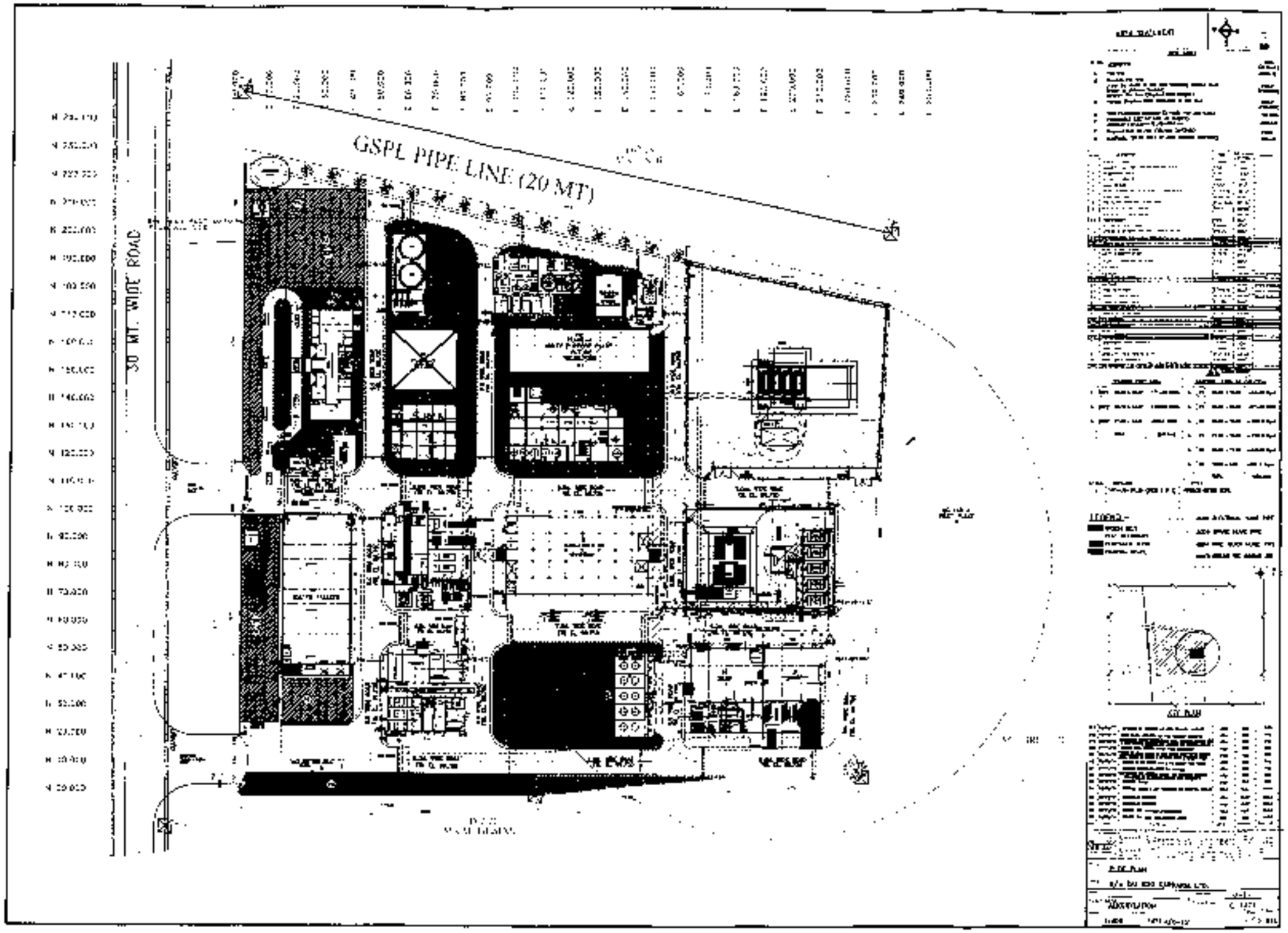
(B) SOLID WASTE NOT FOR LANDFILL.

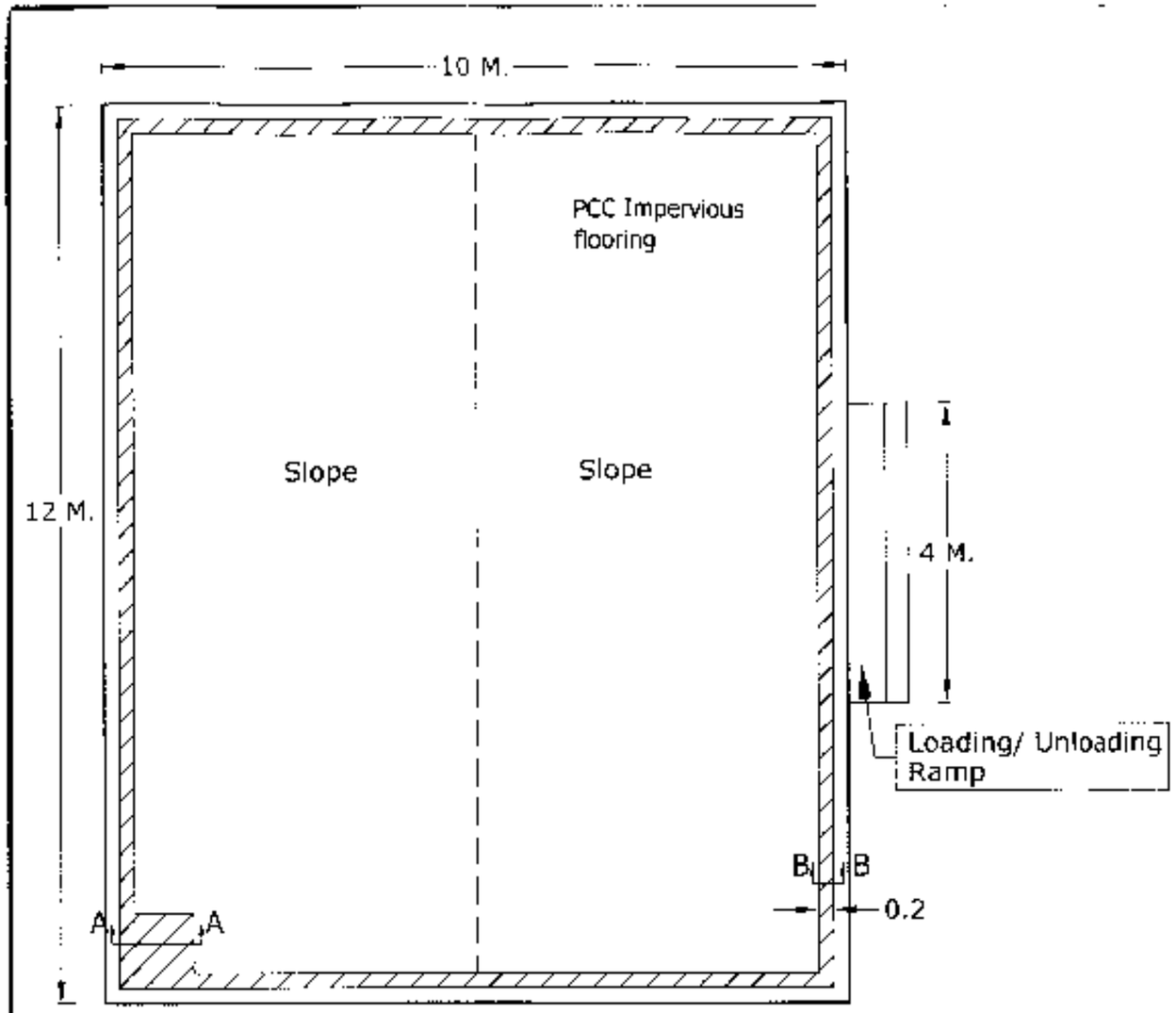
Type of Solid Wastes	Source	Physical property (Slurry / Sludge / Solid)	Quantity	
			Ton Per Day	Ton Per Year
1. Treated Heavy Metal Sludge				
2. Treated CN Waste Sludge				
3. Spent Carbon Residue				
4. Spent Activated Clay				
5. Alkaline Sludge				
6. Any Other				

SR. NO.	CUSTOMER NAME	BOOKING	CUST. CITY	GPCB CONSENT NO	STORAGE FACILITY
1	ALKYL AMINES CHEMICALS LTD.	25	DAHEJ	AWH-76129	YES
2	BHARAT RASAYAN LIMITED	3000	DAHEJ	AWH-90645	YES
3	CHLORIDES INDIA	100	DAHEJ	AWH-33367	YES
4	DARAMIC BATTERY SEPARATOR INDIA PVT. LTD.	100	DAHEJ	AWH-83988	YES
5	FERMENTA BIOTECH LTD.	125	DAHEJ	AWH-76123	YES
6	FIRMENICH AROMATICS PRODUCTS (I) PVT. LTD.	400	DAHEJ	AWH-32740	YES
7	GUJARAT FLUOROCHEMICALS LTD. (12/A)	1000	DAHEJ	AWH-16130	YES
8	GUJARAT NARMADA VALLEY FERTILIZERS & CHEMICALS LTD. (TDI DAHEJ UNIT)	1000	DAHEJ	AWH-60288	YES
9	HEMANI INDUSTRIES LTD.-DAHEJ	410	DAHEJ	AWH-65178	YES
10	INDO BAIJIN CHEMICALS PVT. LTD.	158	DAHEJ	AWH-64169	YES
11	INSECTICIDES INDIA LTD.	150	DAHEJ	AWH-77931	YES
12	MEGHMANI ORGANICS LTD. (P. NO.Z-31)	100	DAHEJ	AWH-61030	YES
13	MEGHMANI UNICHEM LLP (P. NO.CH-3)	100	DAHEJ	AWH-48306	YES
14	MEHALI PAPERS PVT. LTD.	150	DAHEJ	AWH-84029	YES
15	NOCIL LIMITED	20	DAHEJ	AWH-53656	YES
16	PIDILITE INDUSTRIES LTD. - DAHEJ	8	DAHEJ	AWH-81053	YES
17	ROXUL ROCKWOOL INSULATION INDIA PVT. LTD.	1000	DAHEJ	AWH-43715	YES
18	SRF LIMITED	300	DAHEJ	AWH-24521	YES
19	TORRENT PHARMACEUTICALS LTD. - DAHEJ	150	DAHEJ	AWH-66310	YES
20	UNIVERSAL CHEMICALS & INDUSTRIES PVT. LTD.	300	DAHEJ	AWH-62153	YES
21	WELSPUN CORP LTD.	20	DAHEJ	AWH-45026	YES
22	TTK PRESTIGE LTD.	45	KARJAN	AWH-59849	YES
23	KERAKOLL INDIA PVT LTD	300	VADODARA	AWH-69417	YES
24	POLYCAB WIRE PVT. LTD. (UNIT-4)	10	VADODARA	AWH-16971	YES
25	INDUCTOTHERM (INDIA) PVT LTD.	25	AHMEDABAD	AWH-77965	YES
26	EURECAT INDIA CATALYST PVT. LTD.	25	JHAGADIA	AWH-55123	YES
27	PAYAL POLYPLAST PVT. LTD.	1224	DAHEJ	AWH-52435	YES
28	TRANSPEK SILOX INDUSTRY PVT. LTD.	1834	VADODARA	AWH-55938	YES
29	PREM INDUSTRY	25	AHMEDABAD	AWH-51688	YES
30	MEGHMANI ORGANIC LTD. UNIT-3	1000	DAHEJ	AWH-40978	YES
31	OIL AND NATURAL GAS CORPORATION LTD. (ONGC) - AHMEDABAD	500	AHMEDABAD	AWH-67587	YES
32	SURVIVAL TECHNOLOGIES PVT. LTD. - UNIT-1	6	ANKLESHWAR	AWH-44075	YES
33	SYNBIOTICS LTD.	75	VADODARA	AWH-66678	YES
34	ALOK INDUSTRIES LTD.	25	VAPI	AWH-55204	YES
35	STANDARD PESTICIDES PVT. LTD.	10	VADODARA	AWH-70858	YES
36	MACLEODS PHARMACEUTICALS LTD.	500	VALSAD	AWH-87207	YES
37	MUNDRA SOLAR PV LIMITED	1580	KUTCH	AWH-22608	YES
38	PHILODEN INDUSTRIES PVT. LTD.	25	VADODARA	AWH-68031	YES
39	LONSEN KIRI CHEMICAL INDUSTRY LTD.	3600	VADODARA	AWH-33583	YES
40	BAKUL PHARMA PVT. LTD.	150	ANKLESHWAR	AWH-69872	YES

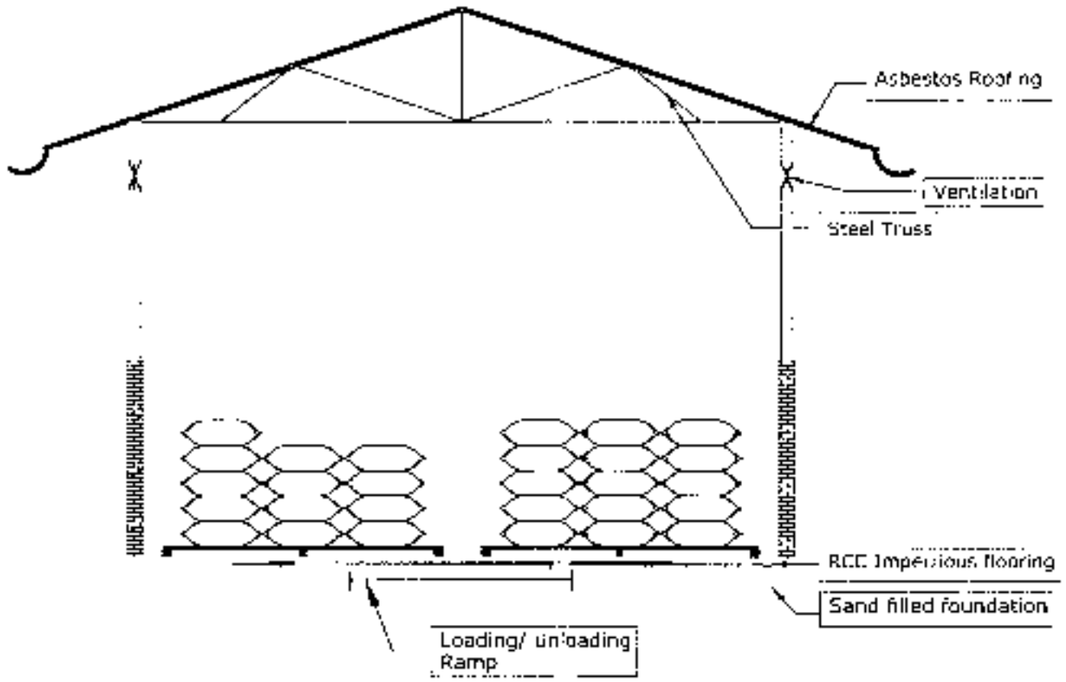
H. W. Storage Area detail

Sr. No.	Storage area	Tag No.	Nos.	Size
1	Sludge Drying Beds	10 A-D	4	4.0m x 4.0m – Each
2	Hazardous Waste Storage Room - RCC	T-26	1	15m x 11m x 3m Ht.
3	Sludge Drying Beds For STP		2	2.6 m x 2.6 m + 0.3 m Sludge Application

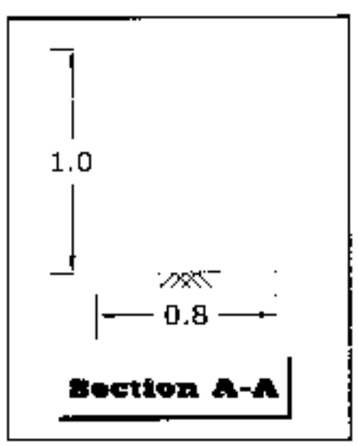

GSPL PIPE LINE (20 MT)
30 MT. WIDE ROAD



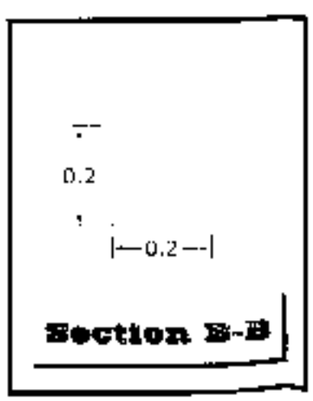
PLAN



ELEVATION



Section A-A



Section B-B

Schematic Design-
Hazardous Waste Storage Facility


HAZARDOUS
SOLID WASTE
AREA
ETP WASTE

CERTIFICATE

The Certification Body

of

Quality Circle Forum of India

Certifies that

BEIL Infrastructure
Dahej, Gujarat

has successfully implemented
FIVE-S Workplace Management System in all departments

An audit was performed and it was found that
all the requirements are fulfilled.

This certificate is valid until 31.01.2023

subject to the continued satisfactory implementation of workplace management system for sustenance and improvements with a check by Surveillance audit.

5S

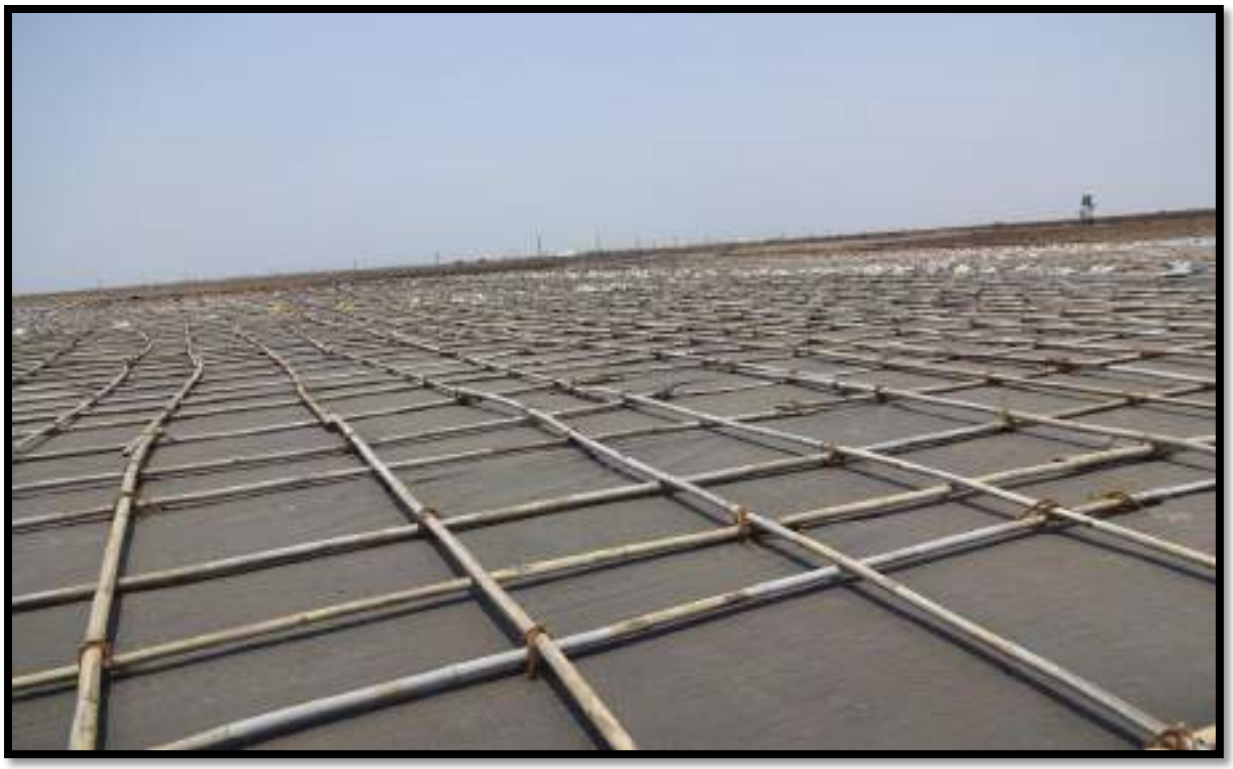
Date: 25.01.2020

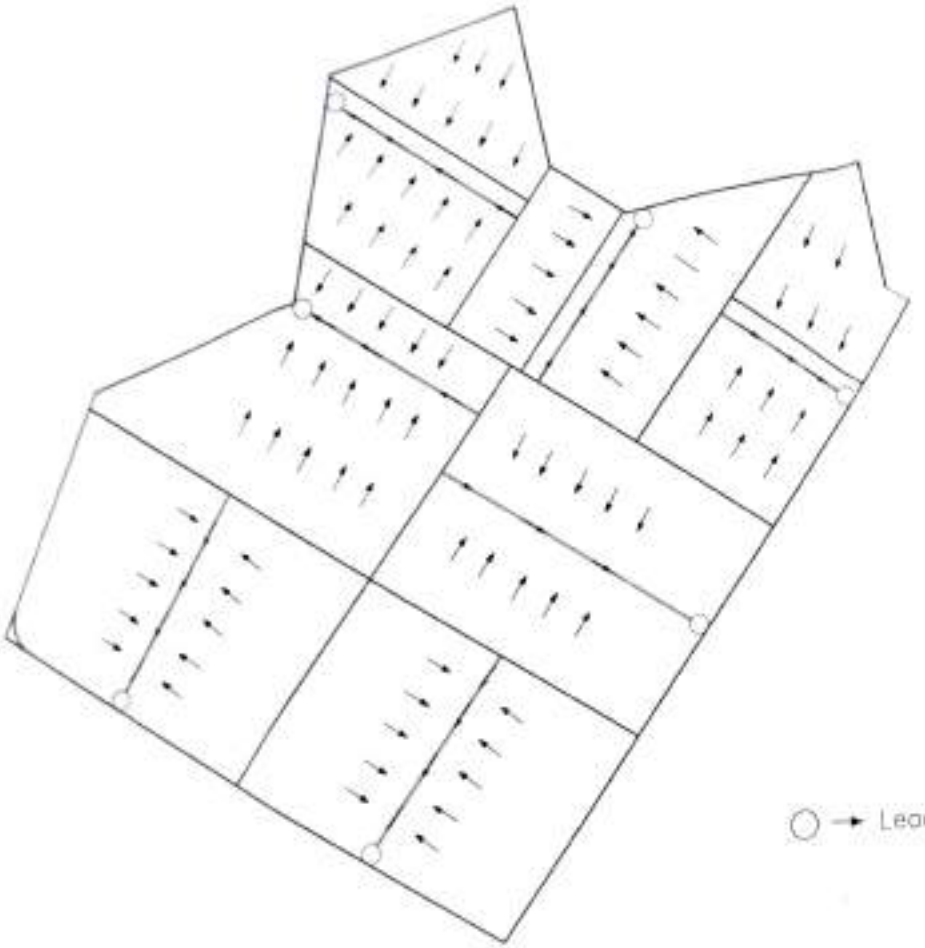
D.K.Srivastava
(Executive Director)


Storm Water Channel
Plant Area
Garland Drain


Plant Area
Effluent Collection Pit
Garland Drain

LANDFILL MONSOON COVER PHOTOGRAPHS





LEACHATE COLLECTION SYSTEM

NAME OF DRAWING

LEACHATE COLLECTION SYSTEM

PROJECT

CONSTRUCTION OF SECURED LANDFILL FACILITY

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

PLOT NO. 43, GIDC, DAHEJ

DESIGN & DRAWN BY

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

PLOT NO. 43, GIDC, DAHEJ

APPROVED BY

INDIAN INSTITUTE OF TECHNOLOGY, NEW DELHI

2-10-13

Dr. Manoj Datta
Professor
Civil Engineering Department
Indian Institute of Technology Delhi
Hauz Khas, New Delhi - 110016

DRG NO	REV	DATE
BEIL - LAY - 07		26.09.13

ALL DIMENSIONS ARE IN METER

SCALE

N.T.S.

BEIL INFRA STRUCTURE LTD. – DAHEJ
PUBLIC HEARING COMPLIANCE REPORT

The Public hearing was held on 5th April 2013 at P.J. Chheda Janta Vidyalay, Dahej, Taluka Vagra, Dist. Bharuch, Gujarat at 11:30 Hrs.

Sr. No.	Name and Address	Points represented and / or written submission	Compliance Status
1.	Shri Raghuvirsinh Udaysinh Rana Village: Dahej, Taluka: Vagra, District: Bharuch	Whether GPCB is carrying out monitoring of the ambient air parameters SOx, NOx in Dahej Area?	Complied. The regional Officer of GPCB answered that GPCB will contact him for carrying out investigation of His complaint.
		He informed that we cannot sleep outside of our residence during night hrs. If door of house remains open, black layers get form on the utensil in morning due to Air pollution.	Complied. We are carrying out regular monitoring of ambient air & all the parameters are within the limit.
		What should be the minimum distance of the company site from village?	Complied. The minimum distance of site from village should be 0.5 Km as per guideline.
2	Shri Sureshbhai Sanabhai Village: Dahej, Taluka: Vagra,	He informed that development in Gujarat is at very fast and new industries are coming.	Noted.
		They give committeemen's during public hearings and they were given cooperation.	Noted.
		He requested industries to give employment to local people.	Complied. We have appointed 2 person as chemist and as electrician, as well as we are also sponsoring them for their skill development courses.
		He informed that they are not against the developments of industries.	Noted.
		He asked the industries representative what steps will be taken to give the employment.	Complied. We have appointed 2 person as chemist and as electrician, as well as

			we are also sponsoring them for their skill development courses.
		He further added that it should give in written by the industries.	Complied We have given employment to local people. We have appointed 2 person as chemist and as electrician, as well as we are also sponsoring them for their skill development courses.
3.	Shri Pradeep Thakar		As he is not in the definition of local people, he was advised to give his presentation or comment in writing which will be incorporated in minutes. He had not given any Written comment.
4.	Shri J. J. Rajput Member of Dahej Eco-Friendly Society, Village: Dahej, Taluka: Vagra, District: Bharuch	He asked the project proponent what the lesson they have learnt from Ankleshwar BEIL fire incident.	Complied. BEIL fire incident had occurred in 2008 in incinerable waste storage area. In this project we are not receiving any incinerable waste. Therefore there will not be possibility of fire incident. We are receiving the waste as per the acceptance criteria for disposal in TSDF site.
5.	Shri Yogesh Pandya Founder Trustee of Dahej Eco-Friendly Society, Village: Dahej, Taluka: Vagra, District: Bharuch	He informed that various problem are arising along with the development of the area.	Noted
		He added that in Gujarat solution of the problems also beings taken care therefore Gujarat develops at very fast. In connection with development of Dahej area they have develop Dahej Eco-friendly society which is also registered with government.	Noted
		He further insisted that work for the preservation of environment should be carried out site by site of development of Dahej area.	Complied. In Ankleshwar, We have HDPE single liner and here in Dahej we have double liner. We have developed a green belt (4550 Trees) along the periphery according to CPCB guidelines (Total 2, 85,343.76 sq. meters land area is available at site; out of this area about 50,500 (3300 m length * 15 m width) sq. meters (18.46 %) area is considered as greenbelt and other forms of greenery) to minimize fugitive emission. It is an ongoing activity, in this monsoon also we have planted 7532 trees to develop green belt. We have tied up with local Gram Panchayat for developing a garden in around 2200 Sq. meters.
		He further added that Dahej should not be developed like	Noted.

		Ankleshwar and Panoli GIDC.	
		He pointed out the complaints of local residence and asked the industries to take the necessary steps.	Noted.
		He added that this type of project is given subsidiary given by government under various provisions therefore people are accepting solution of their problems related to environment and other issues.	Noted.
		He said that in earlier days hazardous waste was disposed not properly which created heaps but now Gujarat is having maximum number of TSDFs, CETPs and Common Incinerators.	Noted.
		Gujarat is going toward the solution of the problems.	Noted.
		He further added that mistake made once should not be repeated again.	Noted.
		He had given incident of Vapi TSDF in which large amount of hazardous waste had washed out due to heavy rain in nearby area. In connection with the same he asked the project proponent what precaution will be taken in Dahej site?	Complied If the slope is not proper then water logging takes place. We have provided the proper slope and in monsoon, the site will be totally closed so no chance of any incidents.
		In connection with, sea is also nearby, salt pans are also nearby and site is also nearby CRZ limit. He further added that the soil of the area is also black cotton soil and water table is about 2.5 to 3 m depth, also area is having heavy rain as well as heavy wind velocity. What extra – ordinary precautions will be taken of above points?	Complied We have done analysis and survey report by government authority and report says it is 9.0 to 9.5 meter. Based on the report we have commissioned the site. We have excavated 1.8 meter black cotton soil until the yellow soil appears then TSDF commissioned.
		He informed that the site will be favorite for Dahej Eco- Friendly Society and Dahej Industrial association.	Noted
		Considering the transparency and faith representative of Dahej Eco-Friendly Society and Dahej Industrial association will be given chance to visit the construction phase of site development.	Complied We are allowing all the member of Dahej Eco-Friendly Society and Dahej Industrial Association for all activities take place in site, they don't need to take any permission.
		He further inquired that what will be disposal of condensate	Complied.

		of MEE and whether they are going to provide stripper in MEE.	MEE Plant of Capacity 200 KLD has been installed and commissioned in May, 2017. We have applied for the CC&A in May, 2017. Spray Dryer is provided and scrubber is attached.
		He advised that to think for high CV waste for co-processing in Cement Kilns.	Noted. At present it is TSDF only. It will be taken care if incinerator will come in future.
		In connection with that green belt, he advised the project proponent to develop 33% green belt in this site as well as in nearby area of Dahej.	Complied. We have developed a green belt (4550 Trees) along the periphery according to CPCB guidelines (Total 2, 85,343.76 sq. meters land area is available at site; out of this area about 50,500 (3300 m length * 15 m width) sq. meters area is considered as greenbelt and other forms of greenery). It is an ongoing activity, in this monsoon also we have planted 7532 trees to develop green belt. We have tied up with local Gram Panchayat for developing a garden in around 2200 Sq. meters. BEIL & UPL have planted the following 1800 nos near Kadodara 4000 nos in Vav village 2800 nos paniyadara 2000 nos in Padariya We have also tied up with local gram panchayat and have prepared a five year plantation plan, wherein we will be providing trees and tree guards to the panchayat.
		In connection with Narmada Parikrama, he advised the industries to give necessary facilitation for this nobel cause.	Complied.
		He informed that since 1995 various public hearing were conducted in this school premises but lot of work for the development of school is required to be done. He advised the project proponent to donate for school room as well as its compound wall.	Complied. We have donated Rs. 50000 to Shri P.J. Chheda Janta Vidhyalaya, Rs. 10000 to School Management Committee & Rs. 5000 to Archarya Prathmik Shala, Dahej
6	Shri Haniabhai President of Dahej Industrial Association, Village: Dahej, Taluka: Vagra, District: Bharuch	He said that Dahej Industrial estate is established in 1993. 20 years is passed for the growth.	Noted.
		He added that this project will to come before one year but due to some reason, project is	Complied We applied to GIDC for land on 06.04.2009 and got allotment &

		delayed. We welcomed the project.	possession on 28.09.2011 & 04.08.2011 subsequently. We have started the landfill site in April 2015 after getting all the required approvals.
		He further added that Dahej Eco-Friendly Society and Dahej Industrial Association will have environment cell. 77 industries is located in Dahej Industrial Estate. All members will work together and this project has to be completed at the earliest.	Complied We have started the landfill site in April 2015 and are become member of Dahej Eco-Friendly Society and Dahej Industrial Association.
		In connection with Narmada Parikrama, he advised the industries to give necessary facilitation for this nobel cause. He added that Narmada Parikrama was started in 1993.	Complied.
		He asked that how fast the project will come and ask to give the completion date. Rate should competitive with other TSDFs.	Complied We have started the landfill site in April 2015
		He advised to project proponent the CETP should also come and start as you have experience of existing site.	Noted
		He also appreciated the cooperation of the surrounding villages' people.	Noted
7.	Mr. Sunil Jain Member of Dahej Eco- Friendly Society, Village: Dahej, Taluka: Vagra, District: Bharuch	What is the provision of rain water harvesting in premises?	Noted for compliance We will carry out rain water harvesting.
		What is planning or arrangement for parking the trucks-vehicles to carry the hazardous waste to project site?	Complied 1000 Sq. Mt. Parking area is provided for trucks-vehicles.
		What care is taken for the nearby existing water tanks due to transportation of vehicles?	Complied Hazardous waste is being transported in dedicated vehicles and it is completely covered. If any mishap will happen, we will collect the waste and then it will be disposed in TSDF.
8.	Shri Narendrasinh Rana Chairman of P J Chheda School & BJP Dahej Gram Panchayat, Village: Dahej, Taluka: Vagra, District: Bharuch	He said that company had given satisfied answer. They will fulfil their commitments. The development of high school should be taken care off by industries.	Complied We have donated Rs. 50000 to Shri P.J. Chheda Janta Vidhyalaya, Rs. 10000 to School Management Committee & Rs. 5000 to Archarya Prathmik Shala, Dahej
		He added that development of industries taken place without any unrest industries.	Complied. We, Dahej Industrial Association, Dahej Eco-Friendly Society and Villagers shall get together for all activities either technical or CSR.

		And all public hearing has been done here only and industrial growth without any accident with industries and villagers.	Noted
		He requested to industries that they should contribute in CSR activities as well as for education facility.	Complied We have donated Rs. 50000 to Shri P.J. Chheda Janta Vidhyalaya, Rs. 10000 to School Management Committee & Rs. 5000 to Archarya Prathmik Shala, Dahej. We are also contributing towards all CSR activities in Dahej Area.
9.	Shri Pradyumansinh Natvarsinh Rana Village: Dahej, Taluka: Vagra, istrict: Bharuch	He asked that who is the responsible to dispose the hazardous waste here and there by other industries.	Noted If any complaints registered, then necessary actions will be taken in consultation with Dahej Industrial Association and GPCB.

BHARUCH ENVIRO INFRASTRUCTURE LTD.
(Unit - Dahej)
CIN-U45300GJ1997PLC032696

18th September 2018

To,
The Collector,
Collector Office,
Bharuch

Sub: Contribution for socio-economic upliftment of surrounding villages.

Respected Sir,

We at BEIL, Dahej would like to contribute for socio-economic upliftment of the surrounding villages, including community welfare programmes for the overall improvements of the environment. For this purpose, BEIL has allocated a budget of 40 lakhs distributed over 5 years of span as per the table below

Year	Rs. (Lakhs)
18-19	10
19-20	10
20-21	10
21-22	5
22-23	5

We therefore request your kindself to let us know whenever we can contribute in an activity towards the socio-economic upliftment of the surrounding community

Request you to take note of this and do the needful.

Thanking You,

For Bharuch Enviro Infrastructure Limited

Authorized Signatory

Copy To :

D.D.O., Bharuch

Works Office : Plot No. D-43, Dahej Amod Road, GIDC Estate, Dahej, Ta-Vagra - 392130, Dist. : Bharuch (Gujarat)
Phones : (02641) 291129 • Email : bhupendra.mehta@unichos.com
Head Office : Plot No. 9701-10, GIDC Estate, Post Box No. 32, Ankleshwar - 393 002, Dist. : Bharuch (Gujarat)
Phones : (02640) 253135, 225298 • Fax : (02642) 222849 • E-mail : parjwania@unichos.com
Regd. Office : Plot No. 1703-19, GIDC Estate, Ankleshwar - 393 002, Dist. : Bharuch (Gujarat)

COMPOST SITE BUILT BY BEIL IN DAHEJ VILLAGE

Collection of Kitchen Waste (door to door)

Monthly average of daily collected kitchen waste comes between 100 to 150 KGs.

Kitchen waste segregation process in tumblers

Kitchen waste drying process in to pits

Ready fertilizer for the use

Environmental Management Plan Compliance

Discipline	Environmental hazard	Mitigation Measures and Action plan	Compliance Status
Secured Landfill Facility			
Temporary storage of Hazardous waste	Leachate Generation	Collection of leachate and treatment	Complied. Temporary storage of hazardous waste is provided for monsoon period. Leachate generated is collected and treated in MEE plant.
Loading the hazardous waste in dumper	Fugitive emission	Coverage of the dumper to prevent dusting	Complied. Authorized dedicated closed dumpers are being used.
	Spillage of waste on the floor	- Avoid spillages by careful handling of the solid waste. - Clean the floor regularly and collect the waste & dispose in landfill	Complied. -Handling has been carried out to avoid spillage of the solid waste. -Regular housekeeping activity is also done.
	Leakage/spillage during transportation	inspection of the dumpers and ensuring that there is no leakage/spillage	Complied Regular inspection carried out of dumpers for detecting any leakage for spillage.
	Health impacts on the workers	Usage of Hydraulic dumpers/hook loaders to prevent manual handling Usage of PPEs by all Employees Medical check-up - pre employment and routine	Complied. Hydraulic dumpers are used for transporting waste. Appropriate PPEs are provided to the workers while manual handling of the waste. Pre employment and routine medical check-up are being carried out.

Transportation of waste			
Transportation of Waste	Littering the waste on the road	- Inspect the dumpers and ensure that there is no leakage/spillage from the vehicle. - Loaded dumpers/trucks with waste should be fully covered. - Impart training to the drivers. - Dumpers/trucks should be leak proof	Complied. -Regular inspection of the dumpers is done to ensure that there is no leakage/spillage from the vehicle. -Loaded dumpers/ vehicles are being covered, leak proof as well. -Drivers are given training also.
	Disposal of waste at non designated place	Manifest System	Complied. We are following valid manifest system according to new hazardous and other waste (Handling and management) rules 2016.
	Contamination of the tyres of vehicles entering landfill area	After loading/unloading the waste, tyres should be washed, and washed water shall be sent for treatment	Complied. After loading/unloading the tires are washed and wastewater is sent for treatment.
Final Disposal			
	Violent reaction/ fire	- Strictly to follow the acceptance criteria. - Check the reactivity of the wastes prior to disposal	Complied. Comprehensive and fingerprint analysis are carried out before accepting the waste to strictly following acceptance criteria for landfill.
	Excessive leachate generation in monsoon season	Cover the sub-cells of the facility with tarpaulin to prevent entry of rain water Close monitoring of the site round the clock during monsoon	Complied. Adequate covering of the sub cells with tarpaulin is done during monsoon.

Final Disposal of the hazardous waste into secured landfill facility	Blowing away of the waste dust with the wind	- Spray water during summer season. - Cover the waste layer with fresh soil and compact it.	Complied. Water is being sprayed for dust suppression. And daily coverage of waste with clay layer is being done.
	Disposal of waste at the wrong place in the premises leachate handling	Provide indicators and sign boards for systematic operation. Properly designed leachate collection wells Daily monitoring of levels in the wells Transfer of leachate from the wells to storage for treatment	Complied. Necessary sign board are provided. Adequate numbers of leachate collection wells are constructed, daily level monitoring is being done and transferred to MEE plant.

Monitoring Activity			
Water Quality	-Ground water pollution - Contamination of ground water	- Monitoring groundwater at upstream and downstream of the site. - Groundwater monitoring surrounding the site as per predesigned plan - Proper barrier systems like impermeable liners, gravity slope and gravel packed channels are constructed for natural flow of leachate and contact water. -The leachate generated has to be collected in an underground tank from where it can be pumped out to the treatment unit. Thus the chances of griond water contamination can be minimised	Complied - We have total 4 monitoring (1 Upstream and 3 downstream wells of the site and monthly monitorin. - An IIT approved leachate collection system is developed and there is a garland drain around the leachate tank. - The leachate from here is pumped to the storage tank which is provided with dyke wall. Therefore, no chances of any type of contamination from anywhere.
Air Quality	Air pollution (Fugitive, Dust and gaseous emissions)	-Ambient Air Monitoring for various parameters at the site and surroundings - Water Dumpers, sprinklers are deployed for water spraying. -Tree plantation around the facility are and along the roads. -Respirable dust samples are collected and analysed periodically to ensure that the	Complied -We are regularly monitoring the ambient air quality parameter at the site and surrounding -We are deployed water dumpers, sprinklers for water spraying. -We are developed tree plantation around the facility and along the roads.

		dust concentration limit is contained within the allowable limits	- Respirable dust samples are collected and we analysed periodically to ensure that the dust concentration limit is contained within the allowable limits.
Soil Quality	Soil pollution (Project site will undergo a major transformation during landfilling. The waste is to be compacted in layers with proper sloping. Contamination of soil is possible if the lining system is improper. Also littering of the waste while transportation to the disposal facility, blowing of waste particles due to wind shall lead to soil contamination. Spillage of leachate during pumping also will lead to soil pollution localized)	- Soil sampling from various locations and analysis. - After land filling is complete, the liner system consisting of soil cover, HDPE liners and vegetative cover shall be immediately constructed to avoid any contamination of soil.	Complied - Soil sampling from various locations and analysis is being done. - Final Coverage is done according to GPCB/CPCB criteria and guidelines to avoid any contamination of soil.
Noise	Noise pollution (Noise levels during construction phase will be high during operational phase due to instrumental work, increased truck movement, earth movers etc.	-These negative impacts are short term. - Equipment to be kept and maintained in proper condition to keep the noise level within 75dB(A). - Workers will be provided with necessary protective equipment e.g. ear plug, ear muffs. - Provision of green belt and plantation would further help in attenuating noise.	Complied. -Noise level monitoring is done on regular basis. - Employees are provided with suitable PPEs to avoid any short term or long term negative impacts of noise pollution. - Adequate green belt is also provided
Traffic	Traffic Impact	BEIL is situated towards one corner of industrial estate of GIDC. As there is no much traffic on this road, no traffic	Complied. BEIL is situated towards one corner of industrial estate of GIDC, as there is no much traffic on this road, no traffic overcrowding

		overcrowding is expected and the impact will be insignificant.	is expected and the impact will be insignificant.
Socio- Economic	Socio- Economic Impact	The site selected for the disposal of hazardous wastes in Dahej Industrial Estate, is not having any visible adverse impact on human population as well as livestock as this site is excluded from any agriculture, forest, ecological sensitive, or animal grazing land. Moreover, the site is with in the industrial estate and land already meant for that purpose. -Due to proposed project, there will be additional employment opportunities for Construction phase about 150 persons and about 60 persons during Operational phase. In general, the project is to have positive environmental impacts by collecting and disposing the hazardous waste in the scientific manner, this will reduce the future health hazard	Complied.
Fire and Safety	Accidents/disasters related to fire and safety	Since the TSDF site is already in operation, this is a capacity expansion project; - Disaster management plan (DMP) is in place. - A well-laid firefighting system and fire extinguishers are already installed as per fire safety norms. -Regular fire safety training will be conducted. -Road/Fire Safety Week/National safety Day/Safety Week Celebration are	Complied. Since the TSDF site is already operational, this is an expansion of TSDF -We have prepared and Implemented Disaster Management Plan. -A well-laid firefighting system and fire extinguishers are provided as per fire safety norms. -Regular safety training is being conducted. - National safety week is celebrated at our site every year.

		observed to improve the safety consciousness.	
Health and Safety	Injury	Since the TSDF site is already in operation, -Preplacement and Periodical medical examination of the TSDF site workers. -Use of personal protective equipment. -BEIL shall continue the health monitoring program for the employees. It should focus especially on workers who are handling the hazardous waste.	Complied -Preplacement and Periodical medical examination of the TSDF site workers is being done. -PPEs are being provided to all the workers and employees. -BEIL will continue the health monitoring program for the employees. It would focus especially on workers who are handling the hazardous waste.
Impact on Agriculture and Livestock	No impact	This is capacity expansion project. The area is a barren land without significant vegetation. Hence no impact on the agriculture is envisaged.	Complied
Strom Water	-	BEIL is providing coverage system with storm water collection and drainage for the utilized areas as per the CPCB guidelines. The first coverage system has been provided in the year 2001. -Since the top coverage system is provided with proper liner system including HDPE liner, the rainwater is taken care of properly. -The rainwater is going through the drainage system without any contamination. -The rainwater harvesting system is provided based on the technology given by the Center for Science & Environment, New Delhi.	Complied.

		-Schematic diagram of Rainwater Harvesting System is given in figure	
Green Belt		Adequate green belt will be provided by BEIL around the existing site. -Area which has been brought under green belt is to the tune of 52,500 sq.meter (18.4%) -Green belt will be properly maintained resulting in formation of a thick canopy of trees around the project site.	Complied. -We have developed 52,500 sq. mt. area as green belt within the premises. - We have also taken permission to develop green belt out side the premises.
Operation, Maintenance, and closure	Contamination of Environment	The site will be operated, maintained and closure of the facility will be done as per approved plan by SPCB and in accordance with guidelines published by CPCB	Complied. The site is being operated, maintained and closure of the facility will be done as per approved plan by SPCB and in accordance with guidelines published by CPCB
Post closure Phase	Ambient air quality	Monitoring of ambient air quality for various parameters	Complied Monitoring of ambient air quality for various parameters is being done.
	Emission from landfill vents	Monitoring of vents for HCs/VOCs, monthly	Complied. Monitoring of vents for HCs/VOCs is being done every month.
	Leachate generation	- Sampling and analysis of leachate for various parameters, monthly. - Treatment of generated leachate in Multiple Effect Evaporator	- Sampling and analysis of leachate for various parameters is being done. - Leachate generated is collected and treated in Multiple Effect Evaporator.
	Groundwater monitoring	Monitoring of groundwater	Complied. Monitoring of ground water on regular basis is being conducted.

	Soil contamination	Monitoring of soil samples	Complied. Monitoring of soil samples on regular basis is being conducted.
	Stability of the landfill	Regular inspection and maintenance of the coverage system	Complied. Regular Inspection and maintenance of the coverage system is being done.

Dr. K. RAMESH, IFS
MEMBER SECRETARY
SEIAA (GUJARAT)

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/5(f)/1568 /2020 Date: 16 DEC 2020 BY R.P.A.D

Amendment to Environment Clearance Order No:- SEIAA/GUJ/EC/7(d)/227/2013 dated 22/07/2013.

(Under the provision of Environmental Impact Assessment (EIA) Notification, 2006)

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification, 2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted to **M/s Bharuch Enviro Infrastructure Ltd for setting up "Common Treatment Storage and Disposal of Hazardous waste (TSDF) having Secured Landfill Facility (SLF) of 14 lacs MT and MEE plant having capacity 3 x 200 KL/day "at Plot No.D-43, Dahej Industrial Estate, Tal.Vagra, Dist. Bharuch, Gujarat**, vide this office letter no. **SEIAA/GUJ/EC/7(d)/227/2013 dated 22/07/2013**, is being subjected to amendment for the following change in the project.

And whereas SEIAA has granted Environment Clearance vide office order letter no. **SEIAA/GUJ/EC/7(d)/227/2013 dated 22/07/2013**, under the provisions of the aforesaid Notification.

And whereas project proponent has applied for amendment in the environmental clearance vide their online application vide No. SIA/GJ/MIS/170754/2020 dated 01-09-2020. The project was scheduled for hearing in the SEAC meeting held on 19/10/2020.

The SEAC, Gujarat had recommended the project vide their letter dated 12/11/2020 to grant amendment in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 19/10/2020. The proposal was considered by SEIAA, Gujarat in its meeting held on 26/11/2020 at Gandhinagar. After careful consideration, Environment Clearance order dated 22/07/2013 is hereby amended as under, subject to amendment with respect to changes in the planning of the project.

1. **Name of the unit shall be read as " M/s BEIL Infrastructure Ltd." instead of "M/s. Bharuch Enviro Infrastructure Ltd".**

Rest of all the conditions of the Environment Clearance orders no **SEIAA/GUJ/EC/7(d)/227/2013 dated 22/07/2013** shall remain unchanged.

With regards,
Yours sincerely,

(Dr. K. RAMESH)
Member Secretary

State Level Environment Impact Assessment Authority SEIAA Gujarat

Issued to:
BEIL INFRASTRUCTURE LIMITED
Plot No. D-43,
Dahej Industrial Estate,
Tal. Vagra, Dist. Bharuch.

GUJARAT POLLUTION CONTROL BOARD

Paryavaran Bhavan, Sector-10-A, Gandhinagar-382010

₹25.00

B.E.I.L

RG051848127IN

Your Positive Attitude for Control for Pollution is welcome

Environmental Clearance ...

19/10/2020. The proposal was considered by ...

Dahej – Inc + landf
EC

F. No. 10-43/2016-IA-III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 3
lk.bokolia@nic.in Tel: 011-24695301
Date: 18th September, 2020

To,

Shri B D Dalwadi, CEO
M/s BEIL Infrastructure Limited
Plot No.9701-16,9801-28,9901-28,9601-9604,10001-10008,
G-7&8, 7924-27,9401-9412,9501-9506,7905 E to H, GIDC Estate
District Bharuch – 393002 Gujarat

Subject: Installation of Two Incinerators and Capacity Enhancement of Existing Landfill Facility at existing Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF) at plot number D-43, Dahej Industrial Estate, Taluka Vagra, District Bharuch by M/s Bharuch Enviro Infrastructure Limited - Change in name of project proponent reg.

Sir,

This has reference to your online proposal No. IA/GJ/MIS/138604/2020 15th November 2019 and EDS reply letter on 17th August, 2020, submitted to this Ministry for change of name in Environmental Clearance in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986, wherein the Project Proponent applied for change of name of company from **M/s Bharuch Enviro Infrastructure Ltd to M/s BEIL Infrastructure Limited.**

2. Environmental Clearance to the project 'Installation of Two Incinerators and Capacity Enhancement of Existing Landfill Facility at existing Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF)' at plot number D-43, Dahej Industrial Estate, Taluka Vagra, District Bharuch was granted to M/s Bharuch Enviro Infrastructure Ltd by MoEFCC vide letter F.No. 10-43/2018-IA-III dated 19.12.2018.

3. As per information submitted, Ministry of Corporate Affairs vide its Certificate of Incorporation pursuant to change of name dated 17.05.2019 has certified that the name of the company has been changed from M/s Bharuch Enviro Infrastructure Ltd to M/s BEIL Infrastructure Limited with effect from the date of this certificate and that the company is limited by shares.

4. In view of the information submitted by the project proponent and in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986, the Ministry of Environment, Forest and Climate Change hereby accords the change in name of the Project Proponent to M/s BEIL Infrastructure Limited in the Environmental Clearance letter F.No. 10-43/2018-IA-III dated 19.12.2018.

5. All the other conditions stipulated in the MoEF&CC letter F.No. 10-43/2018-IA-III dated 19.12.2018 shall remain unchanged.

6. This issues with the approval of the Competent Authority.

(Lalit Bokolia)
Director (s)

Copy to:

1. The Secretary to Government (Environment and Ecology), Forest, Forests & Environment Department, Government of Gujarat Block 14, 8th floor, Sachivalaya, Gandhinagar - 382 010, Gujarat.
2. The Addl. Principal Chief Conservator of Forests (Central) Ministry of Environment, Forest and Climate Change, Regional Office (WZ) E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3 Ravishankar Nagar, Bhopal - 462016.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382010, Gujarat.
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
6. Guard File/ Record File/ Notice Board.

(Lalit Bokolia)
Director (s)

BEIL INFRASTRUCTURE LIMITED

PLOT NO.D. 43, DAHEJ INDUSTRIAL ESTATE, TALUKA - VAGRA,
DIST - BHARUCH – 392 130, GUJARAT, INDIA.

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System Standards detailed below.

Standards

ISO 14001:2015 & ISO 45001:2018

Scope of certification

OPERATION & MAINTENANCE OF COMMON HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITY (SECURE LANDFILL & MEE) AND RELATED ANALYTICAL SERVICES

Original cycle start date for ISO 14001: **25 June 2016**

Original cycle start date for ISO 45001: **08 March 2021**

Recertification cycle start date: **22 June 2022**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **25 June 2025**

Certificate No. **IND.22.8566/IM/U** Version: **1** Revision date: **22 June 2022**

Signed on behalf of BVCH SAS UK Branch
Jagdheesh N. MANIAN
Director – CERTIFICATION, South Asia
Commodities, Industry & Facilities Division

UKAS MANAGEMENT SYSTEMS
0008

Certification body address: *5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom.*

Local office: *Bureau Veritas (India) Private Limited (Certification Business)*
72 Business Park, Marol Industrial Area, MIDC Cross Road "C",
Andheri (East), Mumbai – 400 093, India.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.
To check this certificate validity please call **+ 91 22 6274 2000.**

Bureau Veritas Certification

Annexure 23

<Track on www.indiapost.gov.in>
Wt:1070gms
Amt:29.00(Cash)
<Track on www.indiapost.gov.in>

O/C

Ref.: BEIL/DHJ/2022-23/12

Date: 27.06.2022
PCB ID # 40137

To,
The Director
Room No 407, Aranya Bhawan,
Near CH-3 Circle, Sector 10A,
Gandhinagar, Gujarat - 382010

Sub.: Half yearly compliance report of two EC's for Common Treatment, Storage, Disposal facility (TSDF) & Multi Effect Evaporator (MEE) and Installation of two incinerators & capacity enhancement of existing landfill, period Oct'21 to March'22.

Ref.: 1. Environmental Clearance No. SEIAA/GUJ/EC/7(d)/227/2013 dated 22nd July,2013 for setting up of common hazardous waste Treatment, Storage, Disposal facility (TSDF) and Multi Effect Evaporator (MEE)

2. Environmental Clearance F. No. 10-43/2016-IA-III dated 19th Dec, 2018 for Installation of two incinerators and capacity enhancement of Existing Landfill Facility

Dear Sir,

BEIL is operating a TSDF facility consisting of a secured land fill Facility and Multi Effect Evaporator (MEE) followed by spray dryer located at Plot No. D-43, Dahej Industrial Estate, Tal. Vagra, Dist.Bharuch,Gujarat.

We are submitting here with the half yearly Compliance status report of both the above referred Environment Clearances for period Oct'21 to March'22. With this, we would also like to inform that EC no F. No. 10-43/2016-IA-III dated 19th Dec, 2018 for Installation of two incinerators and capacity enhancement of existing Landfill has not been implemented till date. However, planning stage is complete, and we have received CTE No 104667 on 24.12.2019.

BEIL has received land fillable Hazardous waste: During 1st Oct'21 to to 31st March'22 is 162161.499 MT. Cumulative quantity disposed in landfill from the beginning (up to 31.03.2022) is 8,15,472.532 MT.

30/6/22

Post Received
Gujarat Pollution Control Board
BHARUCH

CIN NO. U45300GJ1997PLC032696
Works Office : Plot No. D-43, Dahej Amod Road, GIDC Estate, Dahej. T. Vagra - 392 130, Dist. Bharuch (Gujarat)
Phone : (02641) 291129, E-mail : mistryrc@beil.co.in
Regd. Office : Plot No. 9701-16, GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)

Annexure 24

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Ref: BEIL/DAHEJ/2015 30th July, 2015

PCD-ID 40137

To,
Ministry of Environment, Forest and Climate Change,
Regional Office, Western Region,
Kendriya Paryavaran Bhavan,
Link road 3
E-5, Ravishankar Nagar
Bhopal-462016

Kind Attn: Dr. A. Mehrotra, Director (S)

Subject_Compliance with point no. 64 and 70 of Environmental Clearance

Reference: Environmental Clearance order no. SEIAA/GUJ/EC/7(D)/227/2013, Dated 22/07/2013

Dear Sir,

Bharuch Enviro Infrastructure Ltd., is a Secured Landfill Facility for Hazardous waste at Dahej Industrial Estate. We had received our Environmental Clearance for our TSDF and MEE facility at Plot no. D-40, Dahej Industrial Estate, Tal. Vagra, Dist. Bharuch (Gujarat) in category 7(d) of Schedule annexed with EIA Notification dated 14/09/2006, vide order no. SEIAA/GUJ/EC/7(D)/227/2013, Dated. 22/07/2013

We would like to submit the following information in compliance to Point No.64 & 70 of the said Environmental Clearance.

1.	Date of Application for loan		24.10.2013
2.	Financial Closure (Date of Sanction of Loan)	:	07.03.2014 (Copy Attached)
3.	Drawings Approved by IIT, Delhi on	:	21.10.2013 (Copy Attached)
4.	Land Development and construction work Started on	:	13.09.2014
5.	Date of Commissioning		29.04.2015

Please consider the above details. Copy of Environmental Clearance Attached.

Thanking you,

For, Bharuch Enviro Infrastructure Ltd. (Dahej Unit)

B. D. Dalwadi
Chief Executive Officer

C.C: (1) State Level Environment Impact Assessment Authority
Gujarat Pollution Control Board,
"Paryavaran Bhavan" Sector 10-A,
Gandhinagar 382010

(2) Mr. K. C. Mistry – Sr. Environment Engineer, GPCB, Gandhinagar

(3) The Regional Officer, GPCB, Bharuch

EC

A.A.DOLTI
MEMBER SECRETARY
SEIAA (GUJARAT)

Government of Gujarat

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY GUJARAT

No. SEIAA/GUJ/EC/7(d)/ 227/2013

Date: 22 JUL 2013
Time Limit

Sub: **Environment Clearance for M/s. Bharuch Enviro Infrasturcture Limited (BEIL) for setting up of a common hazardous waste Treatment, Storage, Disposal Facility (TSDF) and Multiple Effect Evaporation (MEE) Plant at Plot No. D-43, Dahej Industrial Estate, Tal. Vagra, Dist. Bharuch..... in Category 7 (d) of Schedule annexed with EIA Notification dated 14/9/2006.**

Dear Sir,

This has reference to your application along with Form-I vide letter dated 30/12/2011, Final Environmental Impact and Risk Assessment Report vide letter dated 22/04/2013, submitted to the SEAC, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance **for M/s. Bharuch Enviro Infrasturcture Limited (BEIL) for setting up of a common hazardous waste Treatment, Storage, Disposal Facility (TSDF) and Multiple Effect Evaporation (MEE) Plant at Plot No. D-43, Dahej Industrial Estate, Tal. Vagra, Dist. Bharuch.** M/s. Bharuch Enviro Infrastructure Ltd. [BEIL] proposes to set up TSDF [14 Lac MT] and MEE Plant [3 x 200 KL/day] at Plot No. D-43, Dahej Industrial Estate, Dist. Bharuch. The proposal falls under project / activity no. 7(d) in the Schedule of the EIA Notification, 2006.

The proposed project falls under category 7(d) of the schedule of the EIA Notification, 2006. As the proposed project is situated in the industrial area which is not notified, it falls in Category B as per the schedule of the EIA Notification-2006.

The project activity is covered in 7(d) and is of 'B' Category. Since, the proposed project is located in the industrial area which is not notified, public consultation is required as per paragraph 7(i) (III) (i) (b) of the Environment Impact Assessment Notification-2006. Public hearing of the project was conducted by the GPCB on 05/04/2013 at 11:30 Hrs. at P. J. Chheda Janta Vidy-alay, Dahej, Tal. Vagra, Dist. Bharuch.

The SEAC, Gujarat had recommended to the SEIAA, Gujarat, to grant the Environment Clearance to this project for the above-mentioned project. The proposal was considered by SEIAA, Gujarat in its meeting held on 22.07.2013 at Gandhinagar. Since the public consultation is required for the project, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A.SPECIFIC CONDITIONS:

1. Ground water table at the project site shall be ascertained through the GWRDC before initiating construction of secured landfill site. The depth of the secured land fill site shall be decided based on the ground water level at the site and bottom of the secured landfill site shall be kept at least 2 m above the ground water table.
2. Construction of the secured landfill site shall be undertaken meticulously keeping in view the existing natural drainage pattern of the site to ensure that the natural drainage is not affected. All construction designs/drawings relating to the proposed landfill site must have approvals of reputed institutes like NPC / IIT.
3. The proponent shall ensure that design and construction of secured landfill site is as per the guidelines of CPCB with proper leachate collection arrangement.
4. The proponent shall ensure that the transportation of the Hazardous wastes to the TSDF conforms to the norms laid down in the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
5. Project proponent shall ensure that wastes with organic content > 5% of degradable organic matters are not disposed in to the landfill. However, required arrangement for collection, treatment and disposal of gases from the secured landfill, if any, shall be provided.
6. The TSDF & MEE shall only handle the waste generated from the member units.
7. The project proponent shall set up necessary facility for on site testing of wastes to decide the requirement of treatment if any, before disposal.
8. Project proponent shall carryout periodical ground water/soil monitoring in and around the site to check the contamination including TCLP test for heavy metals.
9. The third party assessment on functioning of the TSDF and MEE shall be carried out through a reputed institute like NPC, IIT

or any academic / research institute of similar repute once in a year and mitigation measures as may be suggested by su... institute shall be implemented in consultation with the Gujarat Pollution Control Board.

A.1 WATER:

10. Fresh water requirement shall not exceed 350 KL/day and it shall be met only through water supply from the GIDC. Metering of water shall be done and its records shall be maintained. No ground water shall be tapped for the project requirements in any case.
11. A leachate collection system shall be provided to collect the leachates at a collection point. Leachate shall be pumped from leachate wells and shall be treated in in-house MEE. However, in the initial two – three years, the leachate shall be sent to BEIL, Ankleshwar for treatment with MEE.
12. BEIL shall explore the possibilities for reuse of condensate water generated from MEE plant for landfill construction, gardening and domestic purpose within the BEIL.
13. Domestic wastewater and condensate water from the MEE shall be disposed off as per the norms to be laid down by the GPCB.
14. Enough care shall be taken to prevent any leakages/accidental spillages during conveyance of the effluent from the member units to the MEE.
15. Separate electricity meter shall be provided at the MEE. A proper operation logbook of the MEE containing records of quantities and qualities of leachate from secured landfill site and effluent received from the member units, energy consumption etc. shall be maintained and furnished to the GPCB from time to time.
16. Storage Tank of adequate capacity shall be provided to hold effluent for at least 48 hours in the case of either maintenance of the MEE or disturbances in MEE operations.
17. In case of power failure, stand-by D.G.Set/s having power generation capacity equivalent to the requirement of power to run the MEE shall be installed, so that the MEE can be operated even in case of power failure.

A.2 AIR:

18. Natural gas to the tune of 440 Nm^3/day shall be used as a fuel in Boiler [5 T/Hr.] and a stack of 30 m height shall be provided to Boiler.
19. HSD to the tune of 3 KL/Month shall be used as a fuel in D.G. Set [600 KVA] and a stack of 9.3 m height shall be provided to D. G. Set.
20. The flue gas emission from Boiler and D.G.Set shall conform to the standards prescribed by GPCB. At no time, the emission levels shall go beyond the stipulated standards.
21. Project proponent shall carryout periodical air quality monitoring in and around the site including VOC, HC. Locations of ambient air quality monitoring stations shall be fixed in consultation with the GPCB.
22. All transporting routes within the premises shall have asphalt roads to minimize fugitive emission.

A.3 SOLID / HAZARDOUS WASTES:

23. The proponent shall ensure that the TSDF fulfills all the provisions of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the design and construction of secured landfill site is as per the guidelines of CPCB with proper leachate collection arrangement.
24. Temporary hazardous waste storage area of about 4000 MT capacity having impervious bottom and roof cover shall be provided as proposed.
25. The project proponent shall not store the hazardous wastes more than the quantity that has been permitted by the CPCB / Gujarat State Pollution Control Board.
26. The main operational site shall be kept covered by tarpaulin with separate rain water collection system during monsoon period.
27. Salt from MEE and discarded bags shall be disposed in the secured landfill site.
28. BEIL shall explore possibilities with respect to reduction and reuse of hazardous waste generated by member units and received at the project site.
29. Used oil shall be sold only to the registered recyclers.

A.4 SAFETY:

30. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of hazardous wastes.
31. Handling and storage of wastes shall be done in such a manner that minimal human exposure occurs.
32. All transportation of hazardous materials shall be as per the Motor Vehicle Act & Rules.
33. Hazardous materials storage shall be at an isolated designated location, bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.
34. Personal Protective Equipment shall be provided to workers and its usage shall be ensured and supervised.
35. First Aid Box and required Antidotes for the chemicals used in laboratory shall be made readily available in adequate quantity at all the times.

36. Training shall be given to all workers on safety and health aspects of handling hazardous wastes.
37. Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act and Rules. Pre-employment and periodical medical examination for all workers shall be undertaken as per statutory requirement.
38. Project proponent shall prepare and implement an On Site Emergency Management Plan and Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health. Adequate fire fighting facilities shall be installed to handle the fire.

A.5 NOISE:

39. The overall noise level in and around the premises shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.

A.6 GREEN BELT AND OTHER PLANTATION:

40. Project proponent shall develop green belt all along the periphery of the TSDF as per the CPCB guidelines with plant species that are significant and used for the pollution abatement. Drip Irrigation system shall be used for the green belt for optimum utilization of the water resources.
41. BEIL shall also tie up with local agencies like gram panchayat, schools, social forestry office etc. for plantation at suitable open places in GIDC estate and nearby villages and shall submit an action plan of plantation for next five years to the GPCB.

B.OTHER CONDITIONS:

42. Project proponent shall obtain necessary Authorization / Consents from the Gujarat Pollution Control Board.
43. A separate Environment Management Cell equipped with full fledged testing laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions.
44. In the event of de-functioning of MEE, receipt of effluent from member units shall be immediately stopped and they shall be intimated about the same. Effluent from the member units shall not be received until the desired efficiency of MEE has been achieved.
45. Adequate spares for waste and effluent collection, handling and transfer shall be maintained at all times.
46. BEIL shall comply with all the provisions of CPCB guidelines for TSDF as may be applicable from time to time.
47. BEIL shall maintain accurate records of their member units in respect of quantity of each product manufactured, quantities and qualities of waste & effluent generated, booked & supplied to the TSDF & MEE on day to day basis and shall submit the compiled records to the GPCB on monthly basis.
48. BEIL shall ensure that each & every member unit renews the agreement / membership on/before expiry of said agreement / membership and shall inform the GPCB about any unit not renewing the agreement / membership within stipulated period. BEIL shall immediately inform the Gujarat Pollution Control Board about termination / suspension of membership of any member unit.
49. BEIL shall instruct and make sure that each member unit provides effluent storage tank and hazardous waste storage area having adequate retention time.
50. BEIL shall not allow any new member or enhance waste / effluent quantity of existing members unless & until they have prior requisite permissions from competent authorities.
51. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
52. Good house keeping shall be maintained within the premises. All pipes, valves and drains shall be leak proof. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly. Floor washing shall be admitted in to the effluent collection system for subsequent treatment and disposal through MEE.
53. During effluent transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with storm water.
54. Necessary measures shall be taken to prevent contamination of storm water from wastes / effluent handled at site. The storm water drains shall be kept separate and shall remain dry throughout the year except monsoon.
55. BEIL shall intimate the GPCB about occurrence of any accident, act or event resulting in discharge of poisonous, noxious or polluting matter or the likelihood of the same into a stream or land or well.
56. The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported.
57. All the issues raised in the public hearing shall be comprehensively addressed / complied with in a time bound manner.
58. BEIL shall assign specific budget for socio-economic upliftment of the surrounding villages and shall undertake eco-developmental measures including community welfare program most useful in the project area for the overall improvement of the environment in consultation with the District Development Officer / District Collector.
59. BEIL shall comply with all the recommendations as well as the environmental protection measures and risk mitigation measures/safeguards proposed in the REIA Report, Risk Assessment Report & Disaster Management Plan of the project.

60. In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to SEIAA / SEAC.
61. BEIL shall thrive to obtain the ISO 14001 and OSHAS 18001 certification.
62. The project management shall extend full support to the officers of MoEF / GPCB during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.
63. A six monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of the MoEF and SEIAA regarding the implementation of the stipulated conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year..
64. The project proponents shall inform the Regional Office of MoEF at Bhopal as well as the SEIAA, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work
65. BEIL shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
66. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
67. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
68. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
69. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
70. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
71. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
72. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act,1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
73. This environmental clearance is valid for five years from the date of issue.
74. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

With regards,
Yours sincerely,

(A.A.DOLTI)
Member Secretary

Issued to:

Shri B. D. Dalwadi, Sr. G.M. - Works,
Bharuch Enviro Infrastructure Ltd. [BEIL]
Plot No. 9701-16, GIDC Estate.
Post Box No. 82, Ankleshwar,
Dist. Bharuch – 393 002.

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Chairman, Central Pollution Control Board , Parivesh Bhavan, CBD -cum-Office Complex,

East Arjun Nagar, New Delhi-110032

3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
6. Select File

(A.A.DOLTI)
Member Secretary

S. E. I. A.
23 AUG 2013
Inward No. 74
Time 1:30 Sign.

TIMES CITY

RTO launches learner's licence app

Receives 150 Applications Through The App In Two Days

ક્રેડિટ સો.સા.ની સભા મળી

નર્મદા ...રી ઝડપાયા

જાહેર સુચના

પર્યાવરણીય મંજૂરી

આ સાથે જણાવવામાં આવે છે કે, સ્ટેટ લેવલ એન્વાયરમેન્ટ ઇમ્પેક્ટ એસેસમેન્ટ ઓથોરીટી, પર્યાવરણ ભવન, સેક્ટર-૧૦ એ, ગાંધીનગર-૩૮૨ ૦૧૦ દ્વારા ભરૂચ એન્વાયરો ઇન્ફ્રાસ્ટ્રક્ચર લિમિટેડ, પ્લોટ નં. ડી-૩૩, દહેજ ઇન્ડસ્ટ્રીયલ એસ્ટેટ, તા.વાગરા, જી.ભરૂચ-૩૯૨ ૧૩૦(ગુજરાત) ખાતે સૂચિત જોખમી કચરા માટેની ટ્રીટમેન્ટ સ્ટોરેજ ડીસ્પોઝલ ફેસીલીટી(TSDF) અને મલ્ટીપલ ઇફેક્ટ ઇવેપોરેટર (MEE) પ્લાન્ટની સ્થાપના કરવા માટેની પર્યાવરણીય મંજૂરી તા. ૨૨-૦૭-૨૦૧૩ના પત્રક્રમાંક SEIAA/GUJ/EC/7(d)/227/2013 દ્વારા ઇ.આઇ.એ. નોટીફીકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ મુજબ આપેલ છે.

મંજૂરીપત્રની નકલ ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ અને SEIAA/SEAC/GPCB ની વેબસાઇટ ઉપર ઉપલબ્ધ છે.

તા. ૨૧-૦૭-૨૦૧૩

બી. ડી. દલવાડી
(ચીફ એક્ઝીક્યુટીવ ઓફિસર)

જાહેર સુચના

[illegible]

સ્થળ : અંકલેશ્વર
તા. ૨૩-૦૭-૨૦૧૩

ભીમસી કે. ચાવડા

UNITED INDIA INSURANCE COMPANY LIMITED

2ND FLOOR,OPP HOTEL LORDS PLAZA ,B/H RAILWAY STATION OLD N.H. NO-8,GIDC,ANKLESHWAR ,BHARUCH ANKLESHWAR, BHARUCH, GUJARAT
BHARUCH - 393002 GUJARAT
PHONE: (2646) 220151 FAX: EMAIL:

PUBLIC LIABILITY ACT POLICY
Policy No.:1806012722P100996639

PERIOD OF INSURANCE
From 00:00 hrs of 01/05/2022
To midnight of 30/04/2023

Insured

M/S BEIL INFRASTRUCTURE LTD

PLOT NO.(1) 9701 TO 9716/ 9801 TO 9828/ 9901 TO 9906/ 9923 TO 9928(2) KISHOKLAND BET. NO. 9701 TO 16.(3) ROAD AREA BET.NO.9801 TO 9814/ VAR PLOT NO. OF JITALI , GIDC, .(4) AHMEDABAD UNIT MUNICIPAL SOLID WASTE SITE,B/H TORRENT POWER SUB STATION,NR HOTEL DEV,NAROL-SARKHEJ HIGHWAY,GYASPUR,AHMEDABAD (5)DAHEJ UNIT PLOT NO. 43, GIDC DAHEJ, BHARUCH,ANKLESHWAR.(6)JHAGADIA UNIT,PLOT NO. 911/C,GIDC JHAGADIA,DIST:BHARUCH-393110.
BHARUCH
393002
GUJARAT

Agent Name	: NITIKABEN A MODI
Agent Code	: AGI0037496
Mobile/Landline Number/Email	: 9879754446

The genuineness of the policy can be verified through "Verify Your Policy" link at www.uiic.co.in.

For any Information, Service Requests, Claim intimation and Grievances please write to 180601@uiic.co.in

PUBLIC LIABILITY ACT POLICY
SCHEDULE

Policy No.	1806012722P100996639	Prev. Pol. No.	1806012721P100990596		
Name Of Insured/ID	**M/s BEIL INFRASTRUCTURE LTD/23074087603**				
Tel.(O)		Fax		Tel.(R)		Mobile	
Business/Occupation	None			Email	siddharth.shah@beil.co.in
Period of Insurance	From 00:00Hours of 01/05/2022		To Midnight of 30/04/2023		

CO-INSURANCE DETAILS:	UIIC 180601 : 100%
PREMIUM:	TWENTY-FIVE THOUSAND SIX HUNDRED ELEVEN RUPEES ONLY

Description of risk : DISP. OF SOLID & LIQUID WASTE

Territory(Geographical Limits)/Jurisdiction:-

Territory	Jurisdiction	Details	Description
India	India	PLOT NO.(1) 9701 TO 9716/ 9801 TO 9828/ 9901 TO 9906/ 9923 TO 9928(2) KISHOKLAND BET. NO. 9701 TO 16.(3) ROAD AREA BET.NO.9801 TO 9814/ VAR PLOT NO. OF JITALI , GIDC, ANKLESHWAR.(4) AHMEDABAD UNIT MUNICIPAL SOLID WASTE SITE,B/H TORRENT POWER SUB STATION,NR HOTEL DEV,NAROL-SARKHEJ HIGHWAY,GYASPUR,AHMEDABAD (5)DAHEJ UNIT PLOT NO. 43, GIDC DAHEJ, BHARUCH (6) BHARUCH ENVIRO INFRASTRUCTURE LTD, JHAGADIA UNIT,PLOT NO. 911/C,GIDC JHAGADIA,DIST:BHARUCH-393110.	ANKLESHWAR/DAHEJ/AHMD/JHAGADIA UNIT

Subsidiaries:-

Excess/Deductible:-

Compulsory Excess/Deductible:-₹207,187.20
Voluntary Excess/Deductible:-₹0.00

TRANSPORTATION OF CHEMICALS

INDEMNITY LIMIT	
Any One ACCIDENT	: ₹ 41,437,440.00
Aggregate During the Policy Period (Not exceeding three Times of any one accident of Indemnity Limit)	: ₹ 124,312,320.00
Contribution to environment Relief fund	: ₹ 25,611.00
Other Discount Amount	: ₹ 145130

Estimated Annual turnover	
Proposed Year	Previous Year
4000000000	2500000000

Premium	:₹	25,611.00
CGST(9%)	:₹	2,305.00
SGST(9%)	:₹	2,305.00
Stamp duty	:₹	1.00
Total	:₹	**55,832.00**
Receipt Number	:	10118060122101041972
Receipt Date	:	02/05/2022

Agency/Broker Code:	AGI0037496
Dev.Officer Code:	20683

Underwriting Remarks	DISPOSAL OF HAZARDOUS, SOLID AND LIQUID WEST BY INCINERATION AND LANDFILLING, ON VARIOUS PLOTS MANTIONED AS ABOVE.

Customer GST/UIN No.:	24AAACB8075F1ZU	**Office GST No.:**	24AAACU5552C3ZN
SAC Code:	997139	**Invoice No. & Date:**	2722I100996639 & 02/05/2022
Amount Subject to Reverse Charges-NIL			

Anti Money Laundering Clause:-In the event of a claim under the policy exceeding ₹ 1 lakh or a claim for refund of premium exceeding ₹ 1 lakh, the insured will comply with the provisions of AML policy of the company. The AML policy is available in all our operating offices as well as Company's web site.

LET US JOIN THE FIGHT AGAINST CORRUPTION. PLEASE TAKE THE PLEDGE AT https://pledge.cvc.nic.in.

Extension Names	LIMIT OF INDEMNITY (₹) AOA : AOY
Indemnity Cover	41437440:124312320

Underwriting Remarks	DISPOSAL OF HAZARDOUS, SOLID AND LIQUID WEST BY INCINERATION AND LANDFILLING, ON VARIOUS PLOTS MANTIONED AS ABOVE.

RETROACTIVE DATE	LIMIT OF INDEMNITY(₹)
01/05/1998	41860340

Date of Proposal and Declaration: 01/05/2022

IN WITNESS WHEREOF, the undersigned being duly authorised has hereunto set his/her hand at BO ANKLESHWAR 180601 on this 28th day of April ,2022

For United India Insurance Co. Ltd.

Affix Policy Stamp here.

Authorised Signatory.

LIABILITY INSURANCE POLICY
(UNDER PUBLIC LIABILITY INSURANCE ACT 1991)

1. OPERATIVE CLAUSE

Whereas the Insured Owner named in the Schedule hereto and carrying on business described in the said Schedule has applied to the UNITED INSURANCE COMPANY LIMITED(hereinafter called the "Company")for the indemnity hereinafter contained and has made a written proposal and declaration which shall be the basis of this contract and is deemed to be incorporated herein and has paid the premium and statutory contributions towards the Environmental Relief Fund as per the provision of the Public Liability Insurance Act, 1991 and the rules framed there under,as amended from time to time..

NOW THIS POLICY WITNESSETH that subject to the terms, exceptions and conditions contained herein or endorsed herein, the Company will indemnify the Insured Owner against the statutory liability arising out of accidents occurring during the currency of the Policy due to handling hazardous substances as provided for in the said Act and the Rules framed thereunder as amended from time to time.

2. DEFINITIONS:

a) "ACT" unless otherwise specifically mentioned shall mean the Public Liability Insurance Act 1991 as amended from time to time.

b) "Accident" means an accident involving a fortuitous sudden or unintentional occurrence while handling any hazardous substance resulting in continuous, intermittent or repeated exposure to death of, or injury to any person or damage to any property but does not include an accident by reason only of war or radioactivity.

c) "Handling" in relation to any hazardous substance means the manufacture processing, treatment, package, storage, transportation by vehicle, use, collection, destruction, conversion, offering for sale, transfer or the like of such hazardous substances.

d) "Hazardous Substance" means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act, 1986 and exceeding such quantity as may be specified, by notification by the Central Government;

e) "Owner" means a person who owns, or has control over handling any hazardous substance at the time of accident and includes:

i) in the case of a firm, any of its partners;
ii) in the case of an association, any of its members and
iii) in the case of a company, any of its directors, managers, secretaries or other officers who is directly in charge of, and is responsible to the company for the conduct of the business of the company;

f) "Turnover" shall mean

i) manufacturing units- Annual Gross Sales of all goods including all levies and taxes
ii) Godowns/ Warehouse owners - Total Annual rental receipts
iii) Transport Operators - Total Annual freight receipts
iv) Others - Total Annual gross receipts.

3. EXCLUSIONS:

This Policy does not cover liability;

1. arising out of wilful or intentional non-compliance of any Statutory provisions.

2. in respect of fines, penalties, punitive and / or exemplary damages.

3. arising under any other legislation except in so for as provided for in Section 8 Sub-Section (1) and (2) of the "Act".

4. in respect of damage to property owned, leased or hired or under hire purchase or on loan to the Insured or otherwise in the Insured Owner's control, care or custody.

5. directly or indirectly occasioned by, happening through or in consequence of war, invasion, act of foreign enemy, hostilities (whether war be declared or not) civil war, rebellion, revolution, insurrection or military or usurped power;

6. directly or indirectly caused by or contributed to by:

a) ionising radiation or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel;
b) the radioactive, toxic, explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof.

4. CONDITIONS:

1. The Insured Owner shall give written notice to the Company as soon as reasonably practicable of any claim made against the Insured Owner or of any specific event or circumstance that may give rise to a claim. The Insured Owner shall immediately give to the Company copies of notice of application forwarded by the Collector and all such additional information and or assistance that the Company may require.

2. No admission, offer, promise or payment shall be made or given by or on behalf of the Insured Owner under this Policy without the written consent of the Company.

3. The Company shall not be liable for any claim for relief made after five years from the date of occurrence of the accident.

4. The Insured Owner shall keep record of annual turnover, and at the time of renewal of insurance declare such turnover and all other details as may be required by the Company. The Company shall at all reasonable times have full rights to call for and examine such records.

5. If at the time of happening of any accident resulting in a claim under this Policy there be any other insurance covering the same liability then the Company shall not be liable to pay or contribute more than its rateable proportion of such liability.

6. This Policy may be cancelled by the Insured Owner by giving 30 days' notice in writing to the Company in which event the Company will retain the premium at short period scale of rates subject to there not having occurred an accident during the Policy period which may give rise to a claim(s), failing which no refund of premium shall be allowable.

7. This insurance may be terminated at any time at the request of the Insured, in which case the Company will retain the premium at customary short period rate for the time the policy has been in force. This insurance may also at any time be terminated at the option of the Company, on 15 days' notice to that effect being given to the Insured, in which case the Company shall be liable to repay on demand a rateable proportion of the premium for the unexpired term from the date of the cancellation. In either case premium will be refunded only if there is no claim under the policy
8. If the Company shall disclaim liability to the Insured Owner for any claim hereunder and if such claim shall not within 12 calendar months from the date of such disclaimer have been made the subject matter of a suit in a competent court of law, then the claim for all practical purposes shall be deemed to have been abandoned and shall not thereafter be recoverable hereunder or be made the subject matter of any suit.

9. The Company shall not be liable to make any payment in respect of any claim if such claim shall be in any manner fraudulent or supported by any person on behalf of the Insured Owner and/or if the Insurance has been continued in consequence of any material misstatement or non disclosure of any material information by or on behalf of the Insured Owner. In such a case if the Company pays any amount to the claimant due to any Statutory provision, such amount shall be recoverable from the Insured Owner.

10. The Policy and the Schedule shall be read together as one contract and any word or expression to which a specific meaning has been assigned in the Act and the Rules framed thereunder or under this Policy shall bear such specific meaning.

11. Any dispute regarding interpretation of the terms, conditions and exceptions of this Policy shall be determined in accordance with the law and practice of a court of competent jurisdiction within India.

Communicable Disease Exclusion Clause:
1. Notwithstanding any provision, clause or term of this insurance contract to the contrary, this insurance Contract excludes any loss, cost, damage, liability, claim, fines, penalty or expense or any other amount of whatsoever nature, whether directly or indirectly and/or in whole or in part, related to, caused by, contributed to by, resulting from, as a result of, as a consequence of, attributable to, arising out of, arising under, in connection with, or in any way involving (this includes all other terms commonly used and/or understood to reflect or describe nexus and/or connection from one thing to another whether direct or indirect):
1.1 a Communicable Disease and/or the fear or threat (whether actual or perceived) of a Communicable Disease and/or the actual or alleged transmission of a Communicable Disease regardless of any other cause or event contributing and/ or occurring concurrently or in any sequence thereto, and
1.2 a pandemic or epidemic, as declared by the World Health Organisation or any governmental authority.
2. As used herein, Communicable Disease means: any infectious, contagious or communicable substance or agent and/or any infectious, contagious or communicable disease which can be caused and/or transmitted by means of substance or agent where:
2.1 the disease includes, but is not limited an illness, sickness, condition or an interruption or disorder of body functions, systems or organs, and
2.2 the substance or agent includes, but is not limited to, a virus, bacterium, parasite, other organism or other micro-organism (whether asymptomatic or not); including any variation or mutation thereof, whether deemed living or not, and
2.3 the method of transmission, whether direct or indirect, includes but not limited to, airborne transmission, bodily fluid transmission, transmission through contact with human fluids, waste or the like, transmission from or to any surface or object, solid, liquid or gas or between organisms including between humans, animals, or from any animal to any human or from any human to any animal, and
2.4 the disease, substance or agent is such:
2.4.1 that causes or threatens damage or can cause or threaten damage to human health or human welfare, or
2.4.2 that causes or threatens damage to or can cause or threaten damage to, deterioration to, contamination of, loss of value of, loss of marketability of or loss of use or usefulness of, tangible or intangible property. For avoidance of doubt, Communicable Disease includes but is not limited to Coronavirus Disease 2019 (Covid -19) and any variation or mutation thereof.
3. For further avoidance of doubt, any contingent or other business interruption loss, cost, damage, loss of income, loss of use, increased cost of working and/or extra expense arising out of or attributable to:
3.1 any partial or complete closure of and/or slowdown in, including but not limited to any closure by or under the advisories of public, military, government or civil authorities, or any denial of access to insured premises, or customer and or supplier premises (including service / utility providers), or

3.2 change in consumer behaviour, or
3.3 an absence of infected employees or employees suspected of being infected shall not be covered by this insurance Contract. .
4. For still further avoidance of doubt, loss, cost, damage, liability, claim, fines, penalty or expense or any other amount excluded hereby, includes but is not limited to any cost to identify, clean-up, detoxify, disinfect, decontaminate, mitigate, remove, evacuate, repair, replace, monitor, sanitize or test: (1) for a Communicable Disease or (2) any tangible or intangible property covered by this [insurance Contract] that is affected by such Communicable Disease.
5. It is clarified that (1) no other prior, concurrent or subsequent provision, clause, term or exception of this insurance Contract (including (but not limited to) any prior, concurrent or subsequent endorsement and/or any provision, clause, term, buy back or exception that operates, or is intended to operate, to extend the coverage of, or protections provided by, this insurance Contract] by whatever name called like any coverage extension, additional coverage, global extension, exception to any exclusion); (2) any change in the law, clause or similar provision; (3) any follow the fortunes clause or similar provision; and/or (4) no change in the law or any regulation (to the extent permitted by applicable law), shall operate to provide any insurance, coverage or protection under this insurance Contract that would otherwise be excluded through the exclusion set forth in this [Endorsement][Clause].
6. If the insurer alleges that by reason of this [Endorsement][Clause] any amount is not covered by this insurance Contract the burden of proving the contrary shall rest in the insured.

Pandemic /Epidemic Specific Exclusion Clause:
Notwithstanding any provision, clause or term of this Contract, this insurance Contract excludes any first party and/or third party actual or alleged loss, injury, sickness, disease, death, medical payment, defence cost, cost, damage, liability, claim, fines, penalty, compensation, expenses or any amount of whatsoever nature, whether directly or indirectly and/or in whole or in part, arising out of (this includes all other terms commonly used and/or understood to reflect or describe, direct or indirect nexus and/or connection between one thing and another), intentional or unintentional violation of
a. The provisions of Disaster Management Act, 2005 as amended from time to time
b. The provisions of The Epidemic Diseases Act 1897 as amended from time to time
c. The provisions of any act dealing with public health and/or public safety
d. The rules, regulations, orders, guidelines, policies, notification etc issued from time to time under any of the above acts.

'Policy form - Claims made with right to defend.'

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POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE

QF/7.8/38-AQ
Page: 1 of 1

Customer's Name and Address :

**M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH**

Test Report No.	:	**PL/BLD 0042**
Issue Date	:	**06/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Location of Sampling	:	**Nr. Main Gate**			
Date of Sampling	:	**29/04/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**30/04/2022**	Lab ID	:	**BLD/2204/01 [A-L]**
Date of Starting of Test	:	**30/04/2022**	Date of Completion of Test	:	**06/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	78.2	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	37.6	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	12.8	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	21.2	80	IS 5182 (Part 6)
5	Ozone (O_3)$	$\mu g/m^3$	14.4	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$	mg/m^3	1.5	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	12.6	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.
$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$. Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016805174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST CERTIFICATE

QF/7.8/38-AQ

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0043**
Issue Date	:	**06/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Location of Sampling	:	**Opp. Khetan Industries**			
Date of Sampling	:	**29/04/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**30/04/2022**	Lab ID	:	**BLD/2204/02 [A-L]**
Date of Starting of Test	:	**30/04/2022**	Date of Completion of Test	:	**06/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	72.8	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	35.2	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	14.9	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	24.4	80	IS 5182 (Part 6)
5	Ozone (O_3)$	$\mu g/m^3$	15.0	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$	mg/m^3	1.10	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	15.9	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.
$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$ Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST CERTIFICATE

Customer's Name and Address :

**M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH**

Test Report No.	:	**PL/BLD 0044**
Issue Date	:	**06/05/2022**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Location of Sampling	: **Nr. EB-2 Borewell**				
Date of Sampling	: **29/04/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **30/04/2022**	Lab ID	:	**BLD/2204/03 [A-L]**
Date of Starting of Test	: **30/04/2022**	Date of Completion of Test	:	**06/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	66.7	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	30.4	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	10.6	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	18.6	80	IS 5182 (Part 6)
5	Ozone (O_3)$	$\mu g/m^3$	13.6	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$	mg/m^3	0.9	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	6.4	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.
$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3):6.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jaiwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST CERTIFICATE

QF/7.8/38-AQ

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0055**
	Issue Date	**: 21/05/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Nr. Main Gate**				
Date of Sampling	: **11/05/2022**	Sampling Procedure	:	**As per table**	
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**	
Sample Receipt Date	: **12/05/2022**	Lab ID	:	**BLD/2205/01 [A-L]**	
Date of Starting of Test	: **12/05/2022**	Date of Completion of Test	:	**18/05/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	71.8	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	35.7	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	13.1	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	15.2	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	13.9	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.2	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	11.4	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE

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Page: 1 of 1

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0056**
	Issue Date	: **21/05/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Opp. Khetan Industries**				
Date of Sampling	: **11/05/2022**	Sampling Procedure	:	**As per table**	
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**	
Sample Receipt Date	: **12/05/2022**	Lab ID	:	**BLD/2205/02 [A-L]**	
Date of Starting of Test	: **12/05/2022**	Date of Completion of Test	:	**18/05/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	77.8	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	37.7	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	11.8	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	18.2	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	14.4	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.3	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	15.2	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST CERTIFICATE

QF/7.8/38-AQ

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0057**
Issue Date	:	**21/05/2022**
Customer's Ref.	:	**W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	:	**Nr. EB-2 Borewell**			
Date of Sampling	:	**11/05/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**12/05/2022**	Lab ID	:	**BLD/2205/03 [A-L]**
Date of Starting of Test	:	**12/05/2022**	Date of Completion of Test	:	**18/05/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	65.5	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	30.1	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	7.2	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	8.7	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	13.4	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.2	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	6.8	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST CERTIFICATE

QF/7.8/38-AQ

Page: 1 of 1

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0072**
Issue Date	:	**07/07/2022**
Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	:	**Nr. Main Gate**			
Date of Sampling	:	**23/06/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**24/06/2022**	Lab ID	:	**BLD/2206/01 [A-L]**
Date of Starting of Test	:	**24/06/2022**	Date of Completion of Test	:	**30/06/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	72.1	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	38.6	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	11.4	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	20.8	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	11.8	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.3	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	12.4	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST CERTIFICATE

QF/7.8/38-AQ

Page: 1 of 1

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0073**
Issue Date	:	**07/07/2022**
Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	:	**Opp. Khetan Industries**			
Date of Sampling	:	**23/06/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**24/06/2022**	Lab ID	:	**BLD/2206/02 [A-L]**
Date of Starting of Test	:	**24/06/2022**	Date of Completion of Test	:	**30/06/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	66.8	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	34.3	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	15.9	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	23.1	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	13.2	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.2	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	9.6	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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TEST CERTIFICATE

QF/7.8/38-AQ

Page: 1 of 1

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0074**
	Issue Date	: **07/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	: **Nr. EB-2 Borewell**				
Date of Sampling	: **23/06/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **24/06/2022**	Lab ID	:	**BLD/2206/03 [A-L]**
Date of Starting of Test	: **24/06/2022**	Date of Completion of Test	:	**30/06/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	59.1	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	31.2	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	9.6	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	15.8	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	10.9	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	0.96	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	6.8	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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TEST CERTIFICATE

QF/7.8/38-AQ

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0084**
Issue Date	:	**21/07/2022**
Customer's Ref.	:	**W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	:	**Nr. Main Gate**			
Date of Sampling	:	**11/07/2022**	Sampling Procedure	:	**As per table**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	:	**12/07/2022**	Lab ID	:	**BLD/2207/09 [A-L]**
Date of Starting of Test	:	**12/07/2022**	Date of Completion of Test	:	**18/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	60.4	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	31.1	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	10.5	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	12.8	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	11.8	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	1.0	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	6.8	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST CERTIFICATE

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0085**
	Issue Date	: **21/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	: **Opp. Khetan Industries**				
Date of Sampling	: **11/07/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **12/07/2022**	Lab ID	:	**BLD/2207/10 [A-L]**
Date of Starting of Test	: **12/07/2022**	Date of Completion of Test	:	**18/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	56.9	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	27.9	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	12.8	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	11.6	80	IS 5182 (Part 6)
5	Ozone (O_3)$^{\$}$	$\mu g/m^3$	10.8	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$^{\$}$	mg/m^3	0.9	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	9.2	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0086**
	Issue Date	: **21/07/2022**
	Customer's Ref.	: **W.O. No. 85222230080 Dated:29.04.2022**

Location of Sampling	: **Nr. EB-2 Borewell**				
Date of Sampling	: **11/07/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **12/07/2022**	Lab ID	:	**BLD/2207/11 [A-L]**
Date of Starting of Test	: **12/07/2022**	Date of Completion of Test	:	**18/07/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	49.9	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	24.1	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	7.2	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	7.4	80	IS 5182 (Part 6)
5	Ozone (O_3)$^{\$}$	$\mu g/m^3$	11.2	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$^{\$}$	mg/m^3	0.8	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	4.6	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. :	**PL/BLD 0096**
	Issue Date :	**24/08/2022**
	Customer's Ref. :	**W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Nr. Main Gate**				
Date of Sampling	: **13/08/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **15/08/2022**	Lab ID	:	**BLD/2208/09 [A-L]**
Date of Starting of Test	: **15/08/2022**	Date of Completion of Test	:	**20/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	65.2	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	28.9	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	12.3	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	25.1	80	IS 5182 (Part 6)
5	Ozone (O_3)$^{\$}$	$\mu g/m^3$	21.8	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$^{\$}$	mg/m^3	1.05	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	26.9	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0097**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Opp. Khetan Industries**				
Date of Sampling	: **13/08/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **15/08/2022**	Lab ID	:	**BLD/2208/10 [A-L]**
Date of Starting of Test	: **15/08/2022**	Date of Completion of Test	:	**20/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	55.4	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	21.9	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	8.9	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	16.9	80	IS 5182 (Part 6)
5	Ozone (O_3)$^{\$}$	$\mu g/m^3$	12.1	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$^{\$}$	mg/m^3	0.84	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	22.4	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0098**
	Issue Date	: **24/08/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Nr. EB-2 Borewell**				
Date of Sampling	: **13/08/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **15/08/2022**	Lab ID	:	**BLD/2208/11 [A-L]**
Date of Starting of Test	: **15/08/2022**	Date of Completion of Test	:	**20/08/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	48.6	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	23.4	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	10.6	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	17.2	80	IS 5182 (Part 6)
5	Ozone (O_3)$^{\$}$	$\mu g/m^3$	14.9	180	IS 5182 (Part 9)
6	Carbon Monoxide as CO$^{\$}$	mg/m^3	0.88	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	20.7	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone (O_3)$^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0111**
	Issue Date	**: 08/10/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	**: Nr. Main Gate**		
Date of Sampling	**: 30/09/2022**	Sampling Procedure	**: As per table**
Sampling by	**: Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	**: Ambient Air Quality Monitoring**
Sample Receipt Date	**: 01/10/2022**	Lab ID	**: BLD/2209/09 [A-L]**
Date of Starting of Test	**: 01/10/2022**	Date of Completion of Test	**: 07/10/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	66.4	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	32.4	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	10.9	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	18.7	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	12.1	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	0.78	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	12.4	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.

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POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE

QF/7.8/38-AQ

Page: 1 of 1

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0112**
	Issue Date	: **08/10/2022**
	Customer's Ref.	: **W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	: **Opp. Khetan Industries**				
Date of Sampling	: **30/09/2022**	Sampling Procedure	:	**As per table**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**Ambient Air Quality Monitoring**
Sample Receipt Date	: **01/10/2022**	Lab ID	:	**BLD/2209/10 [A-L]**
Date of Starting of Test	: **01/10/2022**	Date of Completion of Test	:	**07/10/2022**

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	61.2	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	30.8	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	9.9	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	19.4	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	13.2	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	0.64	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	9.2	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

NS*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2: 15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$,Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE

QF/7.8/38-AQ

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0113**
	Issue Date	**: 08/10/2022**
	Customer's Ref.	**: W.O. No. 8522230080 Dated:29.04.2022**

Location of Sampling	**: Nr. EB-2 Borewell**				
Date of Sampling	**: 30/09/2022**	Sampling Procedure	**: As per table**		
Sampling by	**: Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	**: Ambient Air Quality Monitoring**		
Sample Receipt Date	**: 01/10/2022**	Lab ID	**: BLD/2209/11 [A-L]**		
Date of Starting of Test	**: 01/10/2022**	Date of Completion of Test	**: 07/10/2022**		

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT@	METHOD OF MEASUREMENT
1	Particulate Matter (PM_{10})	$\mu g/m^3$	52.6	100	IS 5182 (Part 23)
2	Particulate Matter ($PM_{2.5}$)	$\mu g/m^3$	25.2	60	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO_2	$\mu g/m^3$	7.2	80	IS 5182 (Part 2)
4	Oxides of Nitrogen as NO_2	$\mu g/m^3$	10.5	80	IS 5182 (Part 6)
5	Ozone $(O_3)^{\$}$	$\mu g/m^3$	11.4	180	IS 5182 (Part 9)
6	Carbon Monoxide as $CO^{\$}$	mg/m^3	0.70	04	IS 5182 (Part 10)
7	Ammonia as NH_3	$\mu g/m^3$	3.8	400	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
8	Benzene as C_6H_6	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 11)
9	Benzo (a) Pyrene (BaP) – particulate phase only	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
10	Arsenic as As	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
11	Nickel as Ni	ng/m^3	Not Detected	NS*	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
12	Lead as Pb	$\mu g/m^3$	Not Detected	1.0	CPCB Guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
13	Hydrocarbon as HC	$\mu g/m^3$	Not Detected	NS*	Gas chromatography
14	HCl	$\mu g/m^3$	Not Detected	NS*	USEPA 26A & SOP HCl – 01
15	Chlorine as Cl_2	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 19)
16	Hydrogen Sulphide as H_2S	$\mu g/m^3$	Not Detected	NS*	IS 5182 (Part 7)

*: Not Specified, @Limit as per GPCB Consent Order No.AWH -109249 Issue Date: 14/09/2020 Up to 17/04/2025.

$: Carbon Monoxide as CO & Ozone (O_3) sampling duration1 hrs. Detection Limit :Benzene as C_6H_6: 2.0 $\mu g/m^3$, Arsenic as As: 2.0 ng/m^3, Benzo (a) Pyrene (BaP) - particulate phase only: 0.5 ng/m^3, Hydrocarbon as HC:50 $\mu g/m^3$, Chlorine as Cl_2:15 $\mu g/m^3$, Lead : 0.1 $\mu g/m^3$, Hydrogen Sulphide as H_2S:6.0 $\mu g/m^3$,Ozone $(O_3)^{\$}$:5.0 $\mu g/m^3$,Nickel as Ni:5.0 $\mu g/m^3$, Hydro Chloric Acid As HCl: 5.0 $\mu g/m^3$.

Ravi Jariwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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Annexure - 2

Environmental Management Plan Compliance

Discipline	Environmental hazard	Mitigation Measures and Action plan	Compliance Status
Secured Landfill Facility			
Temporary storage of Hazardous waste	Leachate Generation	Collection of leachate and treatment	Complied. Temporary storage of hazardous waste is provided for monsoon period. Leachate generated is collected and treated in MEE plant.
Loading the hazardous waste in dumper	Fugitive emission	Coverage of the dumper to prevent dusting	Complied. Authorized dedicated closed dumpers are being used.
	Spillage of waste on the floor	- Avoid spillages by careful handling of the solid waste. - Clean the floor regularly and collect the waste & dispose in landfill	Complied. -Handling has been carried out to avoid spillage of the solid waste. -Regular housekeeping activity is also done.
	Leakage/spillage during transportation	inspection of the dumpers and ensuring that there is no leakage/spillage	Complied Regular inspection carried out of dumpers for detecting any leakage for spillage.
	Health impacts on the workers	Usage of Hydraulic dumpers/hook loaders to prevent manual handling Usage of PPEs by all Employees Medical check-up - pre employment and routine	Complied. Hydraulic dumpers are used for transporting waste. Appropriate PPEs are provided to the workers while manual handling of the waste. Pre employment and routine medical check-up are being carried out.

Annexure - 2

Transportation of waste			
Transportation of Waste	Littering the waste on the road	- Inspect the dumpers and ensure that there is no leakage/spillage from the vehicle. - Loaded dumpers/trucks with waste should be fully covered. - Impart training to the drivers. - Dumpers/trucks should be leak proof	Complied. -Regular inspection of the dumpers is done to ensure that there is no leakage/spillage from the vehicle. -Loaded dumpers/ vehicles are being covered, leak proof as well. -Drivers are given training also.
	Disposal of waste at non designated place	Manifest System	Complied. We are following valid manifest system according to new hazardous and other waste (Handling and management) rules 2016.
	Contamination of the tyres of vehicles entering landfill area	After loading/unloading the waste, tyres should be washed, and washed water shall be sent for treatment	Complied. After loading/unloading the tires are washed and wastewater is sent for treatment.
Final Disposal			
	Violent reaction/ fire	- Strictly to follow the acceptance criteria. - Check the reactivity of the wastes prior to disposal	Complied. Comprehensive and fingerprint analysis are carried out before accepting the waste to strictly following acceptance criteria for landfill.
	Excessive leachate generation in monsoon season	Cover the sub-cells of the facility with tarpaulin to prevent entry of rain water Close monitoring of the site round the clock during monsoon	Complied. Adequate covering of the sub cells with tarpaulin is done during monsoon.

Annexure - 2

Final Disposal of the hazardous waste into secured landfill facility	Blowing away of the waste dust with the wind	- Spray water during summer season. - Cover the waste layer with fresh soil and compact it.	Complied. Water is being sprayed for dust suppression. And daily coverage of waste with clay layer is being done.
	Disposal of waste at the wrong place in the premises leachate handling	Provide indicators and sign boards for systematic operation. Properly designed leachate collection wells Daily monitoring of levels in the wells Transfer of leachate from the wells to storage for treatment	Complied. Necessary sign board are provided. Adequate numbers of leachate collection wells are constructed, daily level monitoring is being done and transferred to MEE plant.

Monitoring Activity			
Water Quality	-Ground water pollution - Contamination of ground water	- Monitoring groundwater at upstream and downstream of the site. - Groundwater monitoring surrounding the site as per predesigned plan - Proper barrier systems like impermeable liners, gravity slope and gravel packed channels are constructed for natural flow of leachate and contact water. -The leachate generated has to be collected in an underground tank from where it can be pumped out to the treatment unit. Thus the chances of griond water contamination can be minimised	Complied - We have total 4 monitoring (1 Upstream and 3 downstream wells of the site and monthly monitorin. - An IIT approved leachate collection system is developed and there is a garland drain around the leachate tank. - The leachate from here is pumped to the storage tank which is provided with dyke wall. Therefore, no chances of any type of contamination from anywhere.
Air Quality	Air pollution (Fugitive, Dust and gaseous emissions)	-Ambient Air Monitoring for various parameters at the site and surroundings - Water Dumpers, sprinklers are deployed for water spraying. -Tree plantation around the facility are and along the roads. -Respirable dust samples are collected and analysed periodically to ensure that the	Complied -We are regularly monitoring the ambient air quality parameter at the site and surrounding -We are deployed water dumpers, sprinklers for water spraying. -We are developed tree plantation around the facility and along the roads.

		dust concentration limit is contained within the allowable limits	- Respirable dust samples are collected and we analysed periodically to ensure that the dust concentration limit is contained within the allowable limits.
Soil Quality	Soil pollution (Project site will undergo a major transformation during landfilling. The waste is to be compacted in layers with proper sloping. Contamination of soil is possible if the lining system is improper. Also littering of the waste while transportation to the disposal facility, blowing of waste particles due to wind shall lead to soil contamination. Spillage of leachate during pumping also will lead to soil pollution localized)	- Soil sampling from various locations and analysis. - After land filling is complete, the liner system consisting of soil cover, HDPE liners and vegetative cover shall be immediately constructed to avoid any contamination of soil.	Complied - Soil sampling from various locations and analysis is being done. - Final Coverage is done according to GPCB/CPCB criteria and guidelines to avoid any contamination of soil.
Noise	Noise pollution (Noise levels during construction phase will be high during operational phase due to instrumental work, increased truck movement, earth movers etc.	-These negative impacts are short term. - Equipment to be kept and maintained in proper condition to keep the noise level within 75dB(A). - Workers will be provided with necessary protective equipment e.g. ear plug, ear muffs. - Provision of green belt and plantation would further help in attenuating noise.	Complied. -Noise level monitoring is done on regular basis. - Employees are provided with suitable PPEs to avoid any short term or long term negative impacts of noise pollution. - Adequate green belt is also provided
Traffic	Traffic Impact	BEIL is situated towards one corner of industrial estate of GIDC. As there is no much traffic on this road, no traffic	Complied. BEIL is situated towards one corner of industrial estate of GIDC, as there is no much traffic on this road, no traffic overcrowding

		overcrowding is expected and the impact will be insignificant.	is expected and the impact will be insignificant.
Socio- Economic	Socio- Economic Impact	The site selected for the disposal of hazardous wastes in Dahej Industrial Estate, is not having any visible adverse impact on human population as well as livestock as this site is excluded from any agriculture, forest, ecological sensitive, or animal grazing land. Moreover, the site is with in the industrial estate and land already meant for that purpose. -Due to proposed project, there will be additional employment opportunities for Construction phase about 150 persons and about 60 persons during Operational phase. In general, the project is to have positive environmental impacts by collecting and disposing the hazardous waste in the scientific manner, this will reduce the future health hazard	Complied.
Fire and Safety	Accidents/disasters related to fire and safety	Since the TSDF site is already in operation, this is a capacity expansion project; - Disaster management plan (DMP) is in place. - A well-laid firefighting system and fire extinguishers are already installed as per fire safety norms. -Regular fire safety training will be conducted. -Road/Fire Safety Week/National safety Day/Safety Week Celebration are	Complied. Since the TSDF site is already operational, this is an expansion of TSDF -We have prepared and Implemented Disaster Management Plan. -A well-laid firefighting system and fire extinguishers are provided as per fire safety norms. -Regular safety training is being conducted. - National safety week is celebrated at our site every year.

		observed to improve the safety consciousness.	
Health and Safety	Injury	Since the TSDF site is already in operation, -Preplacement and Periodical medical examination of the TSDF site workers. -Use of personal protective equipment. -BEIL shall continue the health monitoring program for the employees. It should focus especially on workers who are handling the hazardous waste.	Complied -Preplacement and Periodical medical examination of the TSDF site workers is being done. -PPEs are being provided to all the workers and employees. -BEIL will continue the health monitoring program for the employees. It would focus especially on workers who are handling the hazardous waste.
Impact on Agriculture and Live stock	No impact	This is capacity expansion project. The area is a barren land without significant vegetation. Hence no impact on the agriculture is envisaged.	Complied
Strom Water	-	BEIL is providing coverage system with storm water collection and drainage for the utilized areas as per the CPCB guidelines. The first coverage system has been provided in the year 2001. -Since the top coverage system is provided with proper liner system including HDPE liner, the rainwater is taken care of properly. -The rainwater is going through the drainage system without any contamination. -The rainwater harvesting system is provided based on the technology given by the Center for Science & Environment, New Delhi.	Complied.

		-Schematic diagram of Rainwater Harvesting System is given in figure	
Green Belt		Adequate green belt will be provided by BEIL around the existing site. -Area which has been brought under green belt is to the tune of 52,500 sq.meter (18.4%) -Green belt will be properly maintained resulting in formation of a thick canopy of trees around the project site.	Complied. -We have developed 52,500 sq. mt. area as green belt within the premises. - We have also taken permission to develop green belt out side the premises.
Operation, Maintenance, and closure	Contamination of Environment	The site will be operated, maintained and closure of the facility will be done as per approved plan by SPCB and in accordance with guidelines published by CPCB	Complied. The site is being operated, maintained and closure of the facility will be done as per approved plan by SPCB and in accordance with guidelines published by CPCB
Post closure Phase	Ambient air quality	Monitoring of ambient air quality for various parameters	Complied Monitoring of ambient air quality for various parameters is being done.
	Emission from landfill vents	Monitoring of vents for HCs/VOCs, monthly	Complied. Monitoring of vents for HCs/VOCs is being done every month.
	Leachate generation	- Sampling and analysis of leachate for various parameters, monthly. - Treatment of generated leachate in Multiple Effect Evaporator	- Sampling and analysis of leachate for various parameters is being done. - Leachate generated is collected and treated in Multiple Effect Evaporator.
	Groundwater monitoring	Monitoring of groundwater	Complied. Monitoring of ground water on regular basis is being conducted.

	Soil contamination	Monitoring of soil samples	Complied. Monitoring of soil samples on regular basis is being conducted.
	Stability of the landfill	Regular inspection and maintenance of the coverage system	Complied. Regular Inspection and maintenance of the coverage system is being done.

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-13, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	PL/BLD 0101
Issue Date	:	12/11/2021
Customer's Ref.	:	W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : EB 1 Up stream

Description of Sample	:	Ground Water sample	Quantity/No. of Samples	:	05 Lit./One
Date of Sampling	:	27/10/2021	Sampling Procedure	:	IS:3025
Sampling by	:	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	:	QC/Env. Monitoring
Sample Receipt Date	:	28/10/2021	Lab ID.	:	BLD/2110/06
Packing/ Seal	:	Sealed	Test Parameters	:	As per table
Date of Starting of Test	:	28/10/2021	Date of Completion of Test	:	08/11/2021

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.56	IS 3025 (Part 11) 2019
2	Colour	Co-pt.	15	IS 3025 (Part 4) 2019
3	Conductivity	mmhos/cm	52.40	IS 3025 (Part – 14) 2013
4	Turbidity	NTU	1.46	APHA (23rd Edition 2019) 2130 B
5	Total Suspended Solids	mg/L	13	IS 3025 (Part – 17) 2019
6	Total Dissolved Solids	mg/L	33964	IS 3025 (Part-16) 2019
7	TOC	mg/L	8	APHA (23rd Edition 2017) 5310 B
8	COD	mg/L	72	APHA (23rd Edition 2017) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3986	IS 3025 (Part – 21) 2019 EDTA Method
10	Total Alkalinity	mg/L	440	IS 3025 (Part – 23) 2019
11	Total Kjeldahl Nitrogen	mg/L	1.74	IS :3025 (Part-34) :2019 Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14669	APHA(23rd Edition 2017) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3319	APHA(23rd Edition 2017) 4110 B
14	Nitrate	mg/L	2.04	APHA (23rd Edition 2017) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
16	Cadmium as Cd	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
17	Copper as Cu	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
18	Total Chromium	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
19	Mercury as Hg	mg/L	Not Detected	APHA (23rd Edition 2017) 3112 B
20	Nickel as Ni	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
21	Cyanides as CN-	mg/L	Not Detected	APHA (23rd Edition 2017) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition 2017) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
24	Iron as Fe	mg/L	0.31	APHA (23rd Edition 2017) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note. This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

...mer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	PL/BLD 0101
	Issue Date	:	12/11/2021
	Customer's Ref.	:	W.O. No. 8521220053 Dated:20.04.2021

Sampling Location EB 1 Up stream

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.38	APHA(23rd Edition 2017) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	350	IS 3025 (Part – 40) 2019 EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	796.69	Is 3025 (Part-46) 2019 EDTA Method
29	Sodium as Na	mg/L	10420	APHA (23rd Edition 2017) 3111 B
30	Potassium as K	mg/L	215	IS 3025 (Part 45) 2019 K B/ Flame Photometer
31	BOD	mg/L	14.0	IS 3025 (PART–44) 2019
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) 2019 Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition 2017) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 1995/ USEPA 525.2 1995/ USEPA 532 2000

*Detection Limit: Lead as Pb : 0.005 mg/L, Cadmium as Cd : 0.002 mg/L, Copper as Cu : 0.02 mg/L, Total Chromium : 0.025 mg/L, Mercury as Hg: 0.0006 mg/L, Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn : 0.02 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.003 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L
**Attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

[redacted]

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0101** Issue Date : **12/11/2021** Customer's Ref : **W.O. No. B521220053 Dated:20.04.2021**

Sample Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508 1995
34.2	Dicofol	µg/l	Absent	USEPA 508 1995
34.3	Dieldrin	µg/l	Absent	USEPA 508 1995
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508 1995
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508 1995
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508 1995
34.7	Heptachlor	µg/l	Absent	USEPA 525.2 1995
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508 1995
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508 1995
34.10	Alpha-HCH	µg/l	Absent	USEPA 508 1995
34.11	Beta-HCH	µg/l	Absent	USEPA 508 1995
34.12	Gamma-HCH	µg/l	Absent	USEPA 508 1995
34.13	2,4 DDT	µg/l	Absent	USEPA 508 1995
34.14	2,4 DDD	µg/l	Absent	USEPA 508 1995
34.15	2,4 DDE	µg/l	Absent	USEPA 508 1995
34.16	4,4 DDT	µg/l	Absent	USEPA 508 1995
34.17	4,4 DDE	µg/l	Absent	USEPA 508 1995
34.18	4,4 DDD	µg/l	Absent	USEPA 508 1995
34.19	Delta HCH	µg/l	Absent	USEPA 508 1995
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2 1995
34.21	Ethion	µg/l	Absent	USEPA 525.2 1995
34.22	Malathion	µg/l	Absent	USEPA 525.2 1995
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2 1995
34.24	Phorate	µg/l	Absent	USEPA 525.2 1995
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2 1995
34.26	Quinaphos	µg/l	Absent	USEPA 525.2 1995
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2 1995
34.28	Fenpropathrin	µg/l	Absent	USEPA 525.2 1995
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2 1995
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2 1995
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2 1995
34.32	Butachlor	µg/l	Absent	USEPA 525.2 1995
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2 1995
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2 1995

[illegible]

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

[illegible] India Under [illegible] Protection Act-1986 [illegible]

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016005174, WEB: www.polluconlab.com, E. mail pollucon@gmail.com, info@polluconlab.com

[redacted]

TEST REPORT

QF/7.8/37-WT

Page: 1 of 3

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 0102
Issue Date : 12/11/2021
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sample Location : Nr. EB 2 Down Stream (Borewell)

Description of Sample	:	Ground Water sample	Quantity/No. of Samples	:	05 Lit./One
Date of Sampling	:	27/10/2021	Sampling Procedure	:	IS:3025
Sampling by	:	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	:	QC/Env. Monitoring
Sample Receipt Date	:	28/10/2021	Lab ID.	:	BLD/2110/07
Packing/ Seal	:	Sealed	Test Parameters	:	As per table
Date of Starting of Test	:	28/10/2021	Date of Completion of Test	:	08/11/2021

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.53	IS 3025 (Part 11) 2019
2	Colour	Co-pt	10	IS 3025 (Part 4) 2019
3	Conductivity	mmhos/cm	46.8	IS 3025 (Part – 14) 2019
4	Turbidity	NTU	1.38	APHA (23rd Edition 2019) 2130 B
5	Total Suspended Solids	mg/L	11	IS 3025 (Part – 17) 2019
6	Total Dissolved Solids	mg/L	31841	IS 3025 (Part-16) 2019
7	TOC	mg/L	7	APHA (23rd Edition 2017) 5310 B
8	COD	mg/L	70	APHA (23rd Edition 2017) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3814	IS 3025 (Part – 21) 2019 EDTA Method
10	Total Alkalinity	mg/L	429	IS 3025 (Part – 23) 2019
11	Total Kjeldahl Nitrogen	mg/L	1.58	IS :3025 (Part-34) :2019 Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14649	APHA(23rd Edition 2017) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3286	APHA(23rd Edition 2017) 4110 B
14	Nitrate	mg/L	1.98	APHA (23rd Edition 2017) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
16	Cadmium as Cd	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
17	Copper as Cu	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
18	Total Chromium	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
19	Mercury as Hg	mg/L	Not Detected	APHA (23rd Edition 2017) 3112 B
20	Nickel as Ni	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition 2017) 4500 CN E Colurimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition 2017) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
24	Iron as Fe	mg/L	0.30	APHA (23rd Edition 2017) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD., **PLOT NO.D-43, GIDC, DAHEJ,** **DAHEJ-392130, TAL :- VAGRA,** **DISIT: BHARUCH**	Test Report No. : **PL/BLD 0102** Issue Date : **12/11/2021** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location	**Nr. EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.35	APHA(23rd Edition 2017) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/l	340	IS 3025 (Part – 40) 2019 EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	711.36	Is 3025 (Part-46) 2019 EDTA Method
29	Sodium as Na	mg/L	9528	APHA (23rd Edition 2017) 3111 B
30	Potassium as K	mg/L	240	IS 3025 (Part 45) 2019 K B/ Flame Photometer
31	BOD	mg/L	10.0	IS 3025 (PART-44) 2019
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) 2019 Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition 2017) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 1995/ USEPA 525.2 1995/ USEPA 532 2000

Detection limit: Lead as Pb : 0.005 mg/L Cadmium As Cd : 0.002 mg/L, Copper as Cu : 0.02 mg/L, Total Chromium : 0.025 mg/L, Mercury as Hg 0.0006 mg/L, Arsenic as As 0.005 mg/L, Nickel as Ni 0.05 mg/L, Manganese as Mn 0.03 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN 0.001 mg/L, Zinc : 0.26 mg/L, O&G 2.0 mg/L
** attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Fashion Mall, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat India.
Phone : 0261-2635750 0261-2635751, 0261-2635775, 07016805174, WEB: www.polluconlab.com E-mail: [illegible]

TEST REPORT

QF/7 B/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DIST: BHARUCH	Test Report No. : PL/BLD 0102 Issue Date : 12/11/2021 Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sample Location : Nr. EB 2 Down Stream (Borewell)

RESULT TABLE

Sr. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508 1995
34.2	Dieldrin	µg/l	Absent	USEPA 508 1995
34.3	Dieldrin	µg/l	Absent	USEPA 508 1995
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508 1995
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508 1995
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508 1995
34.7	Heptachlor	µg/l	Absent	USEPA 525.2 1995
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508 1995
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508 1995
34.10	Alpha-HCH	µg/l	Absent	USEPA 508 1995
34.11	Beta-HCH	µg/l	Absent	USEPA 508 1995
34.12	Gamma HCH	µg/l	Absent	USEPA 508 1995
34.13	2,4 DDT	µg/l	Absent	USEPA 508 1995
34.14	2,4 DDD	µg/l	Absent	USEPA 508 1995
34.15	2,4 DDE	µg/l	Absent	USEPA 508 1995
34.16	4,4 DDT	µg/l	Absent	USEPA 508 1995
34.17	4,4 DDE	µg/l	Absent	USEPA 508 1995
34.18	4,4 DDD	µg/l	Absent	USEPA 508 1995
34.19	Delta HCH	µg/l	Absent	USEPA 508 1995
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2 1995
34.21	Ethion	µg/l	Absent	USEPA 525.2 1995
34.22	Malathion	µg/l	Absent	USEPA 525.2 1995
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2 1995
34.24	Phorate	µg/l	Absent	USEPA 525.2 1995
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2 1995
34.26	Quinalphos	µg/l	Absent	USEPA 525.2 1995
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2 1995
34.28	Fenpropathrin	µg/l	Absent	USEPA 525.2 1995
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2 1995
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2 1995
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2 1995
34.32	Ectachlor	µg/l	Absent	USEPA 525.2 1995
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2 1995
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2 1995

Pesticides Aldrin (0.03 µg/l, Dieldrin 0.01 µg/l, Alpha Endosulfan 0.1 µg/l, Beta Endosulfan 0.2 µg/l, Sulphate Endosulfan 0.5 µg/l, Heptachlor 0.05 µg/l, Hexachlorobenzene (HCB) 0.05 µg/l, Methoxychlor 0.05 µg/l, Chlorpyriphos 0.1 µg/l, Malathion 0.1 µg/l, Phorate 0.1 µg/l, 2,4 DDT 0.2 µg/l, 2,4 DDE 0.1 µg/l, 2,4 DDD 0.1 µg/l, 4,4 DDT 0.1 µg/l, 4,4 DDE 0.1 µg/l, 4,4 DDD 0.1 µg/l, Alachlor 0.1 µg/l, Alpha-HCH 0.01 µg/l, Beta HCH 0.01 µg/l, Gamma-HCH 0.1 µg/l, Ethion 0.1 µg/l, Delta HCH 0.01 µg/l, Monocrotophos 0.1 µg/l, Dimethoate 0.05 µg/l, Methyl Parathion 0.1 µg/l, Chlorpyriphos 0.05 µg/l, Fenvalerate 0.05 µg/l, Quinalphos 0.05 µg/l, Deltamethrin 0.05 µg/l, Fenpropathrin 0.05 µg/l, Alpha-cypermethrin 0.05 µg/l, Beta Cyfluthrin 0.05 µg/l, Cyhalothrin 0.05 µg/l, Pendimethalin 0.05 µg/l, Oxyfluorfen 0.05 µg/l, Hexachlorobenzene (HCB) 0.05 µg/l, Fluchloralin 0.05 µg/l

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD. PLOT NO.D 43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISTT: BHARUCH	Test Report No. : PL/BLD 0105 Issue Date : 12/11/2021 Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : **Inside Mandir**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	: **05 Lit./One**
Date of Sampling	: **27/10/2021**	Sampling Procedure	: **IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	: **QC/Env. Monitoring**
Sample Receipt Date	: **28/10/2021**	Lab ID	: **BLD/2110/10**
Packing/ Seal	: **Sealed**	Test Parameters	: **As per table**
Date of Starting of Test	: **28/10/2021**	Date of Completion of Test	: **08/11/2021**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.58	IS 3025 (Part 11) 2019
2	Colour	Hazen	5.0	IS 3025 (Part 4) 2019
3	Conductivity	mmhos/cm	0.49	IS 3025 (Part – 14) 2019
4	Turbidity	NTU	0.31	APHA (23rd Edition 2019) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17) 2019
6	Total Dissolved Solids	mg/L	323	IS 3025 (Part-16) 2019
7	TOC	mg/L	Not Detected	APHA (23rd Edition 2017) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition 2017) 5220 B Open Reflux Method
9	Total Hardness	mg/L	124	IS 3025 (Part – 21) 2019 EDTA Method
10	Total Alkalinity	mg/L	108	IS 3025 (Part – 23) 2019
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) :2019 Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/l	84	APHA(23rd Edition 2017) 4500 B Argentometric Method
13	Sulphates as SO_4	mg/L	15.2	APHA(23rd Edition 2017) 4500 B
14	Nitrate	mg/L	Not Detected	APHA (23rd Edition 2017) 4500 D
15	Lead as Pb	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
16	Cadmium as Cd	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
17	Copper as Cu	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
18	Total Chromium	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
19	Mercury as Hg	mg/L	Not Detected	APHA (23rd Edition 2017) 3112 B
20	Nickel as Ni	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition 2017) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition 2017) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
24	Iron as Fe	mg/l	0.073	APHA (23rd Edition 2017) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

[redacted]

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0105** Issue Date : **12/11/2021** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition 2017) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	26.4	IS 3025 (Part - 40) 2019 EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	13.92	IS 3025 (Part-46) 2019 EDTA Method
29	Sodium as Na	mg/L	46	APHA (23rd Edition 2017) 3111 B
30	Potassium as K	mg/L	8.5	IS 3025 (Part 45) 2019 K By Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (PART-44) 2019
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) 2019 Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition 2017) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 1995/ USEPA 525.2 1995/ USEPA 532 2000

Detection Limit: Lead as Pb : 0.005 mg/L, Cadmium as Cd : 0.002 mg/L, Copper as Cu : 0.03 mg/L, Total Chromium : 0.025 mg/L, Mercury as Hg: 0.0005 mg/L, Arsenic as As : 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn 0.05 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN 0.001 mg/L, Zinc : 0.05 mg/L, [illegible] : 2.0 mg/L, Total Suspended Solids:2.0 mg/L, [illegible] mg/L, COD 5.0 mg/L, Total Kjeldahl Nitrogen:0.2 mg/L, Fluorides as F 0.05 mg/L, BOD 1.0 mg/L, Nitrate 0.5 mg/L
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No	:	**PL/BLD-0105**
Issue Date	:	**12/11/2021**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Adrin	µg/l	Absent	USEPA 508 1995
34.2	Dicofol	µg/l	Absent	USEPA 508 1995
34.3	Dieldrin	µg/l	Absent	USEPA 508 1995
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508 1995
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508 1995
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508 1995
34.7	Heptachlor	µg/l	Absent	USEPA 525.2 1995
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508 1995
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508 1995
34.10	Alpha-HCH	µg/l	Absent	USEPA 508 1995
34.11	Beta-HCH	µg/l	Absent	USEPA 508 1995
34.12	Gamma-HCH	µg/l	Absent	USEPA 508 1995
34.13	2,4 DDT	µg/l	Absent	USEPA 508 1995
34.14	2,4 DDD	µg/l	Absent	USEPA 508 1995
34.15	2,4 DDE	µg/l	Absent	USEPA 508 1995
34.16	4,4 DDT	µg/l	Absent	USEPA 508 1995
34.17	4,4 DDE	µg/l	Absent	USEPA 508 1995
34.18	4,4 DDD	µg/l	Absent	USEPA 508 1995
34.19	Delta HCH	µg/l	Absent	USEPA 508 1995
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2 1995
34.21	Ethion	µg/l	Absent	USEPA 525.2 1995
34.22	Malathion	µg/l	Absent	USEPA 525.2 1995
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2 1995
34.24	Phorate	µg/l	Absent	USEPA 525.2 1995
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2 1995
34.26	Quinaphos	µg/l	Absent	USEPA 525.2 1995
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2 1995
34.28	Fenpropathrin	µg/l	Absent	USEPA 525.2 1995
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2 1995
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2 1995
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2 1995
34.32	Butachlor	µg/l	Absent	USEPA 525.2 1995
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2 1995
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2 1995

[illegible]

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

[illegible] New Delhi [illegible]
[illegible] (Protection) [illegible]

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart
Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: polluconx@gmail.com [illegible]

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD. **PLOT NO.D 43, GIDC, DAHEJ,** **DAHEJ-392130, TAL :- VAGRA,** **DISTT: BHARUCH**	Test Report No. : **PL/BLD 0103** Issue Date : **12/11/2021** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling location	:	**Nr. Gram Panchayat**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**27/10/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**28/10/2021**	Lab ID	:	**BLD/2110/08**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**28/10/2021**	Date of Completion of Test	:	**08/11/2021**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	–	7.47	IS 3025 (Part 11) 2019
2	Colour	Hazen	5.0	IS 3025 (Part 4) 2019
3	Conductivity	mmhos/cm	0.49	IS 3025 (Part – 14) 2019
4	Turbidity	NTU	0.48	APHA (23rd Edition 2019) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17) 2019
6	Total Dissolved Solids	mg/L	318	IS 3025 (Part-16) 2019
7	TOC	mg/L	Not Detected	APHA (23rd Edition 2017) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition 2017) 5220 B Open Reflux Method
9	Total Hardness	mg/L	126	IS 3025 (Part – 21) 2019 EDTA Method
10	Total Alkalinity	mg/L	117	IS 3025 (Part – 23) 2019
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part 34) :2019 Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	79	APHA(23rd Edition 2017) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	13.2	APHA(23rd Edition 2017) 4110 B
14	Nitrate	mg/L	Not Detected	APHA (23rd Edition 2017) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
16	Cadmium as Cd	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
17	Copper as Cu	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
18	Total Chromium	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
19	Mercury as Hg	mg/L	Not Detected	APHA (23rd Edition 2017) 3112 B
20	Nickel as Ni	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition 2017) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition 2017) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
24	Iron as Fe	mg/L	0.084	APHA (23rd Edition 2017) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

[redacted]

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0103** Issue Date : **12/11/2021** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition 2017) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	24	IS 3025 (Part - 40) 2019 EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	15.84	IS 3025 (Part-46) 2019 EDTA Method
29	Sodium as Na	mg/L	45	APHA (23rd Edition 2017) 3111 B
30	Potassium as K	mg/L	8.0	IS 3025 (Part 45) 2019 K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (PART-44) 2019
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) 2019 Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition 2017) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 1995/ USEPA 525.2 1995/ USEPA 532 2000

Detection Limit: Lead as Pb : 0.0[illegible] mg/L, Cadmium as Cd : 0.002 mg/L, Copper as Cu : 0.02 mg/L, Total Chromium : 0.025 mg/L, Mercury as Hg: 0.0006 mg/L, Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : [illegible] mg/L, Total Suspended Solids:2.0 mg/L, TOC 0.1 mg/L, COD:5.0 mg/L, Total Kjeldahl Nitrogen:0.2 mg/L, Fluorides as F 0.05 mg/L, BOD :[illegible] mg/L, Nitrate :0.5 mg/L
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E-mail: pollucon@gmail.com

[redacted]

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : PL/BLD 0103 Issue Date : 12/11/2021 Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : Nr. Gram Panchayat

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508 1995
34.2	Dicofol	µg/l	Absent	USEPA 508 1995
34.3	Dieldrin	µg/l	Absent	USEPA 508 1995
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508 1995
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508 1995
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508 1995
34.7	Heptachlor	µg/l	Absent	USEPA 525.2 1995
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508 1995
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508 1995
34.10	Alpha-HCH	µg/l	Absent	USEPA 508 1995
34.11	Beta-HCH	µg/l	Absent	USEPA 508 1995
34.12	Gamma-HCH	µg/l	Absent	USEPA 508 1995
34.13	2,4 DDT	µg/l	Absent	USEPA 508 1995
34.14	2,4 DDD	µg/l	Absent	USEPA 508 1995
34.15	2,4 DDE	µg/l	Absent	USEPA 508 1995
34.16	4,4 DDT	µg/l	Absent	USEPA 508 1995
34.17	4,4 DDE	µg/l	Absent	USEPA 508 1995
34.18	4,4 DDD	µg/l	Absent	USEPA 508 1995
34.19	Delta HCH	µg/l	Absent	USEPA 508 1995
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2 1995
34.21	Ethion	µg/l	Absent	USEPA 525.2 1995
34.22	Malathion	µg/l	Absent	USEPA 525.2 1995
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2 1995
34.24	Phorate	µg/l	Absent	USEPA 525.2 1995
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2 1995
34.26	Quinalphos	µg/l	Absent	USEPA 525.2 1995
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2 1995
34.28	Fenpropathrin	µg/l	Absent	USEPA 525.2 1995
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2 1995
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2 1995
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2 1995
34.32	Butachlor	µg/l	Absent	USEPA 525.2 1995
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2 1995
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2 1995

[illegible] Aldrin: 0.01 µg/l, Dieldrin: 0.01 µg/l, Alpha Endosulfan: 0.1 µg/l, Beta Endosulfan: 0.1 µg/l, [illegible] Endosulfan: 0.1 µg/l, Heptachlor: 100 µg/l, [illegible] 100 µg/l, [illegible] 0.1 µg/l, Malathion: 0.1 µg/l, Phorate: 0.1 µg/l, 2,4 DDT: 0.1 µg/l, 2,4 DDD: 0.1 µg/l, 2,4 DDE: 0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE: 0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor: 0.1 [illegible] 0.1 µg/l, Alpha HCH: 0.01 µg/l, Beta HCH: 0.01 µg/l, Gamma HCH: 0.1 µg/l, Ethion: 0.1 µg/l, Delta HCH: 0.01 µg/l, Monocrotophos: 0.1 µg/l, Deltamethrin: 100 µg/l, Methyl [illegible] 0.1 µg/l, Chlorpyriphos: 100 µg/l, Profenofos: 100 µg/l, Quinalphos: 100 µg/l, [illegible] 100 µg/l, Fenpropathrin: 100 µg/l, Alpha Cypermethrin: 100 µg/l, Beta-Cyfluthrin [illegible] 100 µg/l, Pendimethalin: 100 µg/l, Dicofol: 100 µg/l, Hexachlorobenzene (HCB): 100 µg/l, Fluchloralin: 100 µg/l

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart
Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone . 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E-mail. pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.6/37 Wr

Customer's Name and Address :

M/s. BEL INFRATSTRCTURE LTD,
PLOT NO.D-40, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	**PL/BLD 0104**
Issue Date	:	**12/11/2021**
Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location	:	**Nr. Bus Station**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**27/10/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**28/10/2021**	Lab ID.	:	**BLD/2110/09**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**28/10/2021**	Date of Completion of Test	:	**08/11/2021**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.79	IS 3025 (Part 11) 2019
2	Colour	Hazen	5.0	IS 3025 (Part 4) 2019
3	Conductivity	mmhos/cm	1.15	IS 3025 (Part – 14) 2019
4	Turbidity	NTU	0.35	APHA (23rd Edition 2019) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17) 2019
6	Total Dissolved Solids	mg/L	751	IS 3025 (Part-16) 2019
7	TOC	mg/L	Not Detected	APHA (23rd Edition 2017) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition 2017) 5220 B Open Reflux Method
9	Total Hardness	mg/L	229	IS 3025 (Part – 21) 2019 EDTA Method
10	Total Alkalinity	mg/L	168	IS 3025 (Part – 23) 2019
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS 13025 (Part-34) -2019 Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	293	APHA(23rd Edition 2017) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	46.8	APHA(23rd Edition 2017) 4110 B
14	Nitrate	mg/L	Not Detected	APHA (23rd Edition 2017) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
16	Cadmium as Cd	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
17	Copper as Cu	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
18	Total Chromium	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
19	Mercury as Hg	mg/L	Not Detected	APHA (23rd Edition 2017) 3112 B
20	Nickel as Ni	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
21	Cyanides as CN	mg/l	Not Detected	APHA (23rd Edition 2017) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition 2017) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B
24	Iron as Fe	mg/L	0.086	APHA (23rd Edition 2017) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition 2017) 3111 B

Continue...

H. I. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD., PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : PL/BLD 0104 Issue Date : 12/11/2021 Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : Nr. Bus Station

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition 2017) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	64	IS 3025 (Part – 40) 2019 EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	16.56	Is 3025 (Part-46) 2019 EDTA Method
29	Sodium as Na	mg/L	90	APHA (23rd Edition 2017) 3111 B
30	Potassium as K	mg/L	9.0	IS 3025 (Part 45) 2019 K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (PART-44) 2019
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) 2019 Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition 2017) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 1995/ USEPA 525.2 1995/ USEPA 532 2000

Detection Limit: Lead as Pb : 0.005 mg/L, Cadmium as Cd : 0.002 mg/L, Copper as Cu : 0.02 mg/L, Total Chromium : 0.025 mg/L, Mercury as Hg: 0.0005 mg/L, Arsenic as As: 0.005 mg/L, Nickel as Ni 0.03 mg/L, Manganese as Mn 0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, Total Suspended Solids 2.0 mg/L, TOC 0.1 mg/L, COD 5.0 mg/L, Total Kjeldahl Nitrogen 0.2 mg/L, Fluorides as F 0.05 mg/L, BOD : 3.0 mg/L, Nitrate 0.5 mg/L.
** attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gayatri [illegible]
Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com E-mail: [illegible]

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, **PLOT NO.D-43, GIDC, DAHEJ,** **DAHEJ-392130, TAL :- VAGRA,** **DISIT: BHARUCH**	Test Report No. : **PL/BLD 0104** Issue Date : **12/11/2021** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508 1995
34.2	Dicofol	µg/l	Absent	USEPA 508 1995
34.3	Dieldrin	µg/l	Absent	USEPA 508 1995
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508 1995
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508 1995
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508 1995
34.7	Heptachlor	µg/l	Absent	USEPA 525.2 1995
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508 1995
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508 1995
34.10	Alpha-HCH	µg/l	Absent	USEPA 508 1995
34.11	Beta-HCH	µg/l	Absent	USEPA 508 1995
34.12	Gamma-HCH	µg/l	Absent	USEPA 508 1995
34.13	2,4 DDT	µg/l	Absent	USEPA 508 1995
34.14	2,4 DDD	µg/l	Absent	USEPA 508 1995
34.15	2,4 DDE	µg/l	Absent	USEPA 508 1995
34.16	4,4 DDT	µg/l	Absent	USEPA 508 1995
34.17	4,4 DDE	µg/l	Absent	USEPA 508 1995
34.18	4,4 DDD	µg/l	Absent	USEPA 508 1995
34.19	Delta HCH	µg/l	Absent	USEPA 508 1995
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2 1995
34.21	Ethion	µg/l	Absent	USEPA 525.2 1995
34.22	Malathion	µg/l	Absent	USEPA 525.2 1995
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2 1995
34.24	Phorate	µg/l	Absent	USEPA 525.2 1995
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2 1995
34.26	Quinaphos	µg/l	Absent	USEPA 525.2 1995
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2 1995
34.28	Fenpropathrin	µg/l	Absent	USEPA 525.2 1995
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2 1995
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2 1995
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2 1995
34.32	Butachlor	µg/l	Absent	USEPA 525.2 1995
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2 1995
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2 1995

[illegible]

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf

[illegible]

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gayatri [illegible]
Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone - 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E mail pollucon[illegible]

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0111**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

Description of Sample	**: Ground Water sample**		Quantity/No. of Samples	**:**	**05 Lit./One**
Date of Sampling	**: 26/11/2021**		Sampling Procedure	**:**	**IS:3025**
Sampling by	**: Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	**:**	**QC/Env. Monitoring**
Sample Receipt Date	**: 27/11/2021**		Lab ID.	**:**	**BLD/2111/05**
Packing/ Seal	**: Sealed**		Test Parameters	**:**	**As per table**
Date of Starting of Test	**: 27/11/2021**		Date of Completion of Test	**:**	**06/12/2021**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.36	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	55.11	IS 3025 (Part – 14)
4	Turbidity	NTU	1.27	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	11	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	35826	IS 3025 (Part-16)
7	Total Organic Carbon	mg/L	8.17	APHA (23rd Edition) 5310 B
8	COD	mg/L	78	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4132	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	429	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.16	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15236	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3216	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.86	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.35	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0111**
	Issue Date	: **07/12/2021**
	Customer's Ref.	: **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.14	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	292	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	816	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10842	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	234	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	8.8	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0111**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0112**
	Issue Date	**07/12/2021**
	Customer's Ref.	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location	:	**Nr. EB 2 Down Stream (Borewell)**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**26/11/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**27/11/2021**	Lab ID.	:	**BLD/2111/06**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**27/11/2021**	Date of Completion of Test	:	**06/12/2021**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.28	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	51.80	IS 3025 (Part – 14)
4	Turbidity	NTU	1.19	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	8.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33640	IS 3025 (Part-16)
7	Total Organic Carbon	mg/L	6.8	APHA (23rd Edition) 5310 B
8	COD	mg/L	68	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3726	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	416	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.10	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14936	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3162	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.67	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.27	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0112**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.0	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	284	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	723	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10580	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	223	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.4	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0112**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0113**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location	:	**Nr. Gram Panchayat**			
Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**26/11/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**27/11/2021**	Lab ID.	:	**BLD/2111/07**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**27/11/2021**	Date of Completion of Test	:	**06/12/2021**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.39	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.52	IS 3025 (Part – 14)
4	Turbidity	NTU	0.31	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	334	IS 3025 (Part-16)
7	Total Organic Carbon	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	150	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	108	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	74	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	15.2	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.093	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0113**
	Issue Date	: **07/12/2021**
	Customer's Ref.	: **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	32.4	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	16.56	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	29	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	5.8	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. :	**PL/BLD 0113**
	Issue Date :	**07/12/2021**
	Customer's Ref. :	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0114**
	Issue Date	**07/12/2021**
	Customer's Ref.	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location	:	**Nr. Bus Station**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**26/11/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**27/11/2021**	Lab ID.	:	**BLD/2111/08**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**27/11/2021**	Date of Completion of Test	:	**06/12/2021**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.68	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	1.23	IS 3025 (Part – 14)
4	Turbidity	NTU	0.41	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	795	IS 3025 (Part-16)
7	Total Organic Carbon	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	256	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	206	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	302	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	45.6	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.079	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0114**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	58.4	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	26.4	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	79	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	9.2	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0114**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0115**
	Issue Date	**07/12/2021**
	Customer's Ref.	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

Description of Sample	: **Ground Water sample**		Quantity/No. of Samples	: **05 Lit./One**	
Date of Sampling	: **26/11/2021**		Sampling Procedure	: **IS:3025**	
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	: **QC/Env. Monitoring**	
Sample Receipt Date	: **27/11/2021**		Lab ID.	: **BLD/2111/09**	
Packing/ Seal	: **Sealed**		Test Parameters	: **As per table**	
Date of Starting of Test	: **27/11/2021**		Date of Completion of Test	: **06/12/2021**	

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.29	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.53	IS 3025 (Part – 14)
4	Turbidity	NTU	0.26	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	352	IS 3025 (Part-16)
7	Total Organic Carbon	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	138	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	112	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	87	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	19.2	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.083	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0115**
	Issue Date	: **07/12/2021**
	Customer's Ref.	: **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	29.2	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	15.6	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	37	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	5.2	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0115**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0116** Issue Date : **07/12/2021** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. EB 3**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **26/11/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **27/11/2021**	Lab ID.	:	**BLD/2111/10**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **27/11/2021**	Date of Completion of Test	:	**06/12/2021**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.32	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	52.40	IS 3025 (Part – 14)
4	Turbidity	NTU	1.21	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	8.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	34062	IS 3025 (Part-16)
7	Total Organic Carbon	mg/L	7.0	APHA (23rd Edition) 5310 B
8	COD	mg/L	73	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3840	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	386	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.16	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15104	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3182	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.74	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.32	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0116**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. EB 3**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.06	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	288	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	748	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10684	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	224	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	8.1	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, BOD :1.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0116**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. EB 3**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0117**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location	:	**Nr. EB 4**			
Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**26/11/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**27/11/2021**	Lab ID.	:	**BLD/2111/11**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**27/11/2021**	Date of Completion of Test	:	**06/12/2021**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.26	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	52.10	IS 3025 (Part – 14)
4	Turbidity	NTU	1.21	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	7.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33814	IS 3025 (Part-16)
7	Total Organic Carbon	mg/L	6.7	APHA (23rd Edition) 5310 B
8	COD	mg/L	69	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3720	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	364	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.12	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15064	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3142	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.52	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.28	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0117**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. EB 4**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	286	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	721	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10452	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	220	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.3	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	0.86	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L,Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, Fluorides as F:0.05 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0117**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. EB 4**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0116A** Issue Date : **07/12/2021** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **26/11/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **27/11/2021**	Lab ID.	:	**BLD/2111/10**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **27/11/2021**	Date of Completion of Test	:	**06/12/2021**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.32	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	52.40	IS 3025 (Part – 14)
4	Turbidity	NTU	1.21	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	8.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	34062	IS 3025 (Part-16)
7	Total Organic Carbon	mg/L	7.0	APHA (23rd Edition) 5310 B
8	COD	mg/L	73	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3840	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	386	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.16	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15104	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3182	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.74	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.32	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0116A**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.06	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	288	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	748	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10684	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	224	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	8.1	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, BOD :1.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0116A**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0117A**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location	:	**EB 4 Down Stream (Borewell)**			
Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**26/11/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**27/11/2021**	Lab ID.	:	**BLD/2111/11**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**27/11/2021**	Date of Completion of Test	:	**06/12/2021**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.26	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	52.10	IS 3025 (Part – 14)
4	Turbidity	NTU	1.21	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	7.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33814	IS 3025 (Part-16)
7	Total Organic Carbon	mg/L	6.7	APHA (23rd Edition) 5310 B
8	COD	mg/L	69	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3720	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	364	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.12	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15064	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3142	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.52	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.28	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0117A**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	286	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	721	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10452	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	220	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.3	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	0.86	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L,Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, Fluorides as F:0.05 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0117A**
	Issue Date	**: 07/12/2021**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0124** Issue Date : **03/01/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

Description of Sample	: **Ground Water sample**		Quantity/No. of Samples	: **05 Lit./One**	
Date of Sampling	: **23/12/2021**		Sampling Procedure	: **IS:3025**	
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	: **QC/Env. Monitoring**	
Sample Receipt Date	: **24/12/2021**		Lab ID.	: **BLD/2112/04**	
Packing/ Seal	: **Sealed**		Test Parameters	: **As per table**	
Date of Starting of Test	: **24/12/2021**		Date of Completion of Test	: **03/01/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.43	IS 3025 (Part 11)
2	Colour	Co-pt	13	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	55.67	IS 3025 (Part – 14)
4	Turbidity	NTU	1.36	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	10	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	36186	IS 3025 (Part-16)
7	TOC	mg/L	7.7	APHA (23rd Edition) 5310 B
8	COD	mg/L	75	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4208	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	436	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.32	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	16830	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3374	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.92	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.32	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0124**
	Issue Date	:	**03/01/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.18	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	324	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	815	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	11054	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	240	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.3	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0124**
	Issue Date	: **03/01/2022**
	Customer's Ref.	: **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0125A** Issue Date : **03/01/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. EB 2 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **23/12/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **24/12/2021**	Lab ID.	:	**BLD/2112/05**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **24/12/2021**	Date of Completion of Test	:	**03/01/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.34	IS 3025 (Part 11)
2	Colour	Co-pt	11	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	53.12	IS 3025 (Part – 14)
4	Turbidity	NTU	1.28	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	8.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	34528	IS 3025 (Part-16)
7	TOC	mg/L	6.3	APHA (23rd Edition) 5310 B
8	COD	mg/L	65	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3824	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	427	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.25	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15624	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3167	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.59	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.28	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0125A**
	Issue Date	:	**03/01/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.13	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	302	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	736	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10946	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	219	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.8	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0125A**
	Issue Date	:	**03/01/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0126** Issue Date : **03/01/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **23/12/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **24/12/2021**	Lab ID.	:	**BLD/2112/06**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **24/12/2021**	Date of Completion of Test	:	**03/01/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.99	IS 3025 (Part 11)
2	Colour	Hazen	4.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.64	IS 3025 (Part – 14)
4	Turbidity	NTU	0.4	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	418	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	138	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	146	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	132	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	18.44	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.075	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0126**
	Issue Date	:	**03/01/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	26.4	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	17.28	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	42	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	4.8	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0126**
	Issue Date	**: 03/01/2022**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0127** Issue Date : **03/01/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **23/12/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **24/12/2021**	Lab ID.	:	**BLD/2112/07**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **24/12/2021**	Date of Completion of Test	:	**03/01/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.56	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	1.25	IS 3025 (Part – 14)
4	Turbidity	NTU	0.48	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	814	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	262	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	240	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	324	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	43.8	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.089	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0127**
	Issue Date	:	**03/01/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	58.8	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	27.6	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	82.9	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	9.32	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0127**
	Issue Date	:	**03/01/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0128** Issue Date : **03/01/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **23/12/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **24/12/2021**	Lab ID.	:	**BLD/2112/08**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **24/12/2021**	Date of Completion of Test	:	**03/01/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.38	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.56	IS 3025 (Part – 14)
4	Turbidity	NTU	0.32	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	364	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	129	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	122	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	102	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	17.9	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.069	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0128**
	Issue Date	:	**03/01/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	28.4	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	13.92	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	45	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	6.2	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0128**
	Issue Date	: **03/01/2022**
	Customer's Ref.	: **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. :	**PL/BLD 0129**
	Issue Date :	**03/01/2022**
	Customer's Ref. :	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**		Quantity/No. of Samples	: **05 Lit./One**	
Date of Sampling	: **23/12/2021**		Sampling Procedure	: **IS:3025**	
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose)	: **QC/Env. Monitoring**	
Sample Receipt Date	: **24/12/2021**		Lab ID.	: **BLD/2112/09A**	
Packing/ Seal	: **Sealed**		Test Parameters	: **As per table**	
Date of Starting of Test	: **24/12/2021**		Date of Completion of Test	: **03/01/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.33	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	52.80	IS 3025 (Part – 14)
4	Turbidity	NTU	1.27	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	9.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	34326	IS 3025 (Part-16)
7	Total Organic Carbon	mg/L	6.5	APHA (23rd Edition) 5310 B
8	COD	mg/L	71	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4018	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	402	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.25	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15212	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3204	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.54	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.28	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0129**
	Issue Date	:	**03/01/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.12	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	298	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	785	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10820	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	224	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.3	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, BOD :1.0 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0129**
	Issue Date	**: 03/01/2022**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0130A** Issue Date : **03/01/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **23/12/2021**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **24/12/2021**	Lab ID.	:	**BLD/2112/09B**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **24/12/2021**	Date of Completion of Test	:	**03/01/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.39	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	52.35	IS 3025 (Part – 14)
4	Turbidity	NTU	1.19	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	8.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	34020	IS 3025 (Part-16)
7	Total Organic Carbon	mg/L	6.1	APHA (23rd Edition) 5310 B
8	COD	mg/L	65	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3784	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	376	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.23	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15084	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3168	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.38	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.25	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0130A**
	Issue Date	:	**03/01/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.08	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	286	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	736	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10540	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	214	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.1	IS 3025 (PART–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L,Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, Fluorides as F:0.05 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0130A**
	Issue Date	**: 03/01/2022**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	PL/BLD 0009
Issue Date	:	02/02/2022
Customer's Ref.	:	W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : Nr. Gram Panchayat

Description of Sample	: Ground Water sample		Quantity/No. of Samples	:	05 Lit./One
Date of Sampling	: 22/01/2022		Sampling Procedure	:	IS:3025
Sampling by	: Pollucon Laboratories Pvt. Ltd.		Protocol (purpose)	:	QC/Env. Monitoring
Sample Receipt Date	: 23/01/2022		Lab ID.	:	BLD/2201/08
Packing/ Seal	: Sealed		Test Parameters	:	As per table
Date of Starting of Test	: 23/01/2022		Date of Completion of Test	:	02/02/2022

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.48	IS 3025 (Part 11)
2	Colour	Hazen	3.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.72	IS 3025 (Part – 14)
4	Turbidity	NTU	0.37	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	470	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	148	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	140	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	152	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	16.42	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.08	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0009** Issue Date : **02/02/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	28.4	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	18.48	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	38.6	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	4.2	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part-44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0009** Issue Date : **02/02/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 508
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 525.2
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides: Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan 0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor: 0.1 µg/l, Butachlor: 0.1 µg/l, Alpha-HCH:0.001 µg/l, Beta HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l, Dimethoate: 100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinalphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	PL/BLD 0011A
Issue Date	:	02/02/2022
Customer's Ref.	:	W.O. No. 8521220053 Dated:20.04.2021

Sampling Location	:	EB 3 Down Stream (Borewell)			
Description of Sample	:	Ground Water sample	Quantity/No. of Samples	:	05 Lit./One
Date of Sampling	:	22/01/2022	Sampling Procedure	:	IS:3025
Sampling by	:	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	:	QC/Env. Monitoring
Sample Receipt Date	:	23/01/2022	Lab ID.	:	BLD/2201/10A
Packing/ Seal	:	Sealed	Test Parameters	:	As per table
Date of Starting of Test	:	23/01/2022	Date of Completion of Test	:	02/02/2022

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.39	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	55.60	IS 3025 (Part – 14)
4	Turbidity	NTU	1.37	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	11	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	36142	IS 3025 (Part-16)
7	TOC	mg/L	6.1	APHA (23rd Edition) 5310 B
8	COD	mg/L	75	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4124	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	410	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.39	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15628	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3419	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.32	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 3114 B
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3111 B
23	Manganese as Mn	mg/L	0.25	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	Not Detected	APHA (23rd Edition) 3111 B
25	Zinc as Zn			

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: PL/BLD 0011A
	Issue Date	: 02/02/2022
	Customer's Ref.	: W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.08	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	310	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	803	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10293	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	210	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.32	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L BOD :1.0 mg/L

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 0011A
Issue Date : 02/02/2022
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : EB 3 Down Stream (Borewell)

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides Aldrin :0.01 µg/l, Dieldrin 0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, Methoxy Chlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE 0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor: 0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin: 100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0007** Issue Date : **02/02/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

Description of Sample :	**Ground Water sample**	Quantity/No. of Samples :	**05 Lit./One**
Date of Sampling :	**22/01/2022**	Sampling Procedure :	**IS:3025**
Sampling by :	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose) :	**QC/Env. Monitoring**
Sample Receipt Date :	**23/01/2022**	Lab ID. :	**BLD/2201/06**
Packing/ Seal :	**Sealed**	Test Parameters :	**As per table**
Date of Starting of Test :	**23/01/2022**	Date of Completion of Test :	**02/02/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.56	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	56.34	IS 3025 (Part – 14)
4	Turbidity	NTU	1.42	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	13	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	36624	IS 3025 (Part-16)
7	TOC	mg/L	7.4	APHA (23rd Edition) 5310 B
8	COD	mg/L	72	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4362	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	448	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.83	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	16924	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3268	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.73	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.45	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0007** Issue Date : **02/02/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.23	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	332	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	847	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	11322	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	250	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	10.3	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0003 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.01 mg/L, O&G : 2.0 mg/L
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : PL/BLD 0007 Issue Date : 02/02/2022 Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : EB 1 Up stream

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides Alcrin :0.01 µg/l, Dieldrin 0.01 µg/l, Alpha Endosulfan :0.1 µg/l, Beta Endosulfan :0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, Methoxychlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate 0.1 µg/l, 2,4 DDT 0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	PL/BLD 0008
Issue Date	:	02/02/2022
Customer's Ref.	:	W.O. No. 8521220053 Dated:20.04.2021

Sampling Location	:	Nr. EB 2 Down Stream (Borewell)

Description of Sample	:	Ground Water sample	Quantity/No. of Samples	:	05 Lit./One
Date of Sampling	:	22/01/2022	Sampling Procedure	:	IS:3025
Sampling by	:	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	:	QC/Env. Monitoring
Sample Receipt Date	:	23/01/2022	Lab ID.	:	BLD/2201/07
Packing/ Seal	:	Sealed	Test Parameters	:	As per table
Date of Starting of Test	:	23/01/2022	Date of Completion of Test	:	02/02/2022

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.48	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	53.58	IS 3025 (Part – 14)
4	Turbidity	NTU	1.26	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	11	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	34826	IS 3025 (Part-16)
7	TOC	mg/L	7.0	APHA (23rd Edition) 5310 B
8	COD	mg/L	69	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3972	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	428	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.30	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	16142	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3184	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.42	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.39	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0008** Issue Date : **02/02/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.14	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	312	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	766	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	11014	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	241	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.4	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 0008
Issue Date : 02/02/2022
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : Nr. EB 2 Down Stream (Borewell)

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin: 0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan 0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor :100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT 0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE: 0.1 µg/l, 4,4 DDD: 0.1 µg/l, Aachor: 0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinalphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: PL/BLD 0010
	Issue Date	: 02/02/2022
	Customer's Ref.	: W.O. No. 8521220053 Dated:20.04.2021

Sampling Location	:	Nr. Bus Station			
Description of Sample	:	Ground Water sample	Quantity/No. of Samples	:	05 Lit./One
Date of Sampling	:	22/01/2022	Sampling Procedure	:	IS:3025
Sampling by	:	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	:	QC/Env. Monitoring
Sample Receipt Date	:	23/01/2022	Lab ID.	:	BLD/2201/09
Packing/ Seal	:	Sealed	Test Parameters	:	As per table
Date of Starting of Test	:	23/01/2022	Date of Completion of Test	:	02/02/2022

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.72	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	1.38	IS 3025 (Part – 14)
4	Turbidity	NTU	0.58	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	913	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	284	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	262	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	338	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	45.2	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.06	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0010** Issue Date : **02/02/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	61.6	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	31.2	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	85	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	7.81	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Cooper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: PL/BLD 0010
	Issue Date	: 02/02/2022
	Customer's Ref.	: W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinalphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malethion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate: 100 µg/l, Methyl Parathion 0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinalphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin: 100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):-100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0011**
	Issue Date	**02/02/2022**
	Customer's Ref.	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location	:	**Inside Mandir**			
Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**22/01/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**23/01/2022**	Lab ID.	:	**BLD/2201/10**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**23/01/2022**	Date of Completion of Test	:	**02/02/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.56	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.67	IS 3025 (Part – 14)
4	Turbidity	NTU	0.25	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	427	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	137	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	132	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	114	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	14.32	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.07	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 0011
Issue Date : 02/02/2022
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : Inside Mandir

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	31.2	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	14.16	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	39.82	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	5.19	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD : 1.0 mg/L,Nitrate :0.5 mg/L
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 0011
Issue Date : 02/02/2022
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : Inside Mandir

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan 0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate 0.1 µg/l, 2,4 DDT 0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD: 0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE 0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/lAlpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate: 100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinalphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 00118** Issue Date : **02/02/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **22/01/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **23/01/2022**	Lab ID.	:	**BLD/2201/108**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **23/01/2022**	Date of Completion of Test	:	**02/02/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.45	IS 3025 (Part 11)
2	Colour	Co-pt	15	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	54.04	IS 3025 (Part – 14)
4	Turbidity	NTU	1.28	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	9.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	35128	IS 3025 (Part-16)
7	TOC	mg/L	8.76	APHA (23rd Edition) 5310 B
8	COD	mg/L	72	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3846	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	389	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.35	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	16024	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3218	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.49	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.29	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0011B**
	Issue Date	**02/02/2022**
	Customer's Ref.	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.13	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	280	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	755	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10932	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	228	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.94	IS 3025 (Part-44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L,Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, Fluorides as F:0.05 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 00118
Issue Date : 02/02/2022
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : EB 4 Down Stream (Borewell)

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan: 0.1 µg/l, Beta Endosulfan 0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l,Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon :100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin: 100 µg/l, Fenopropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyhalothrin:100 µg/l, Cyhalothrin 100 µg/l, Pendimethalin:100 µg/l, Dicofol 100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	PL/BLD 0019A
Issue Date	:	05/03/2022
Customer's Ref.	:	W.O. No. 8521220053 Dated:20.04.2021

Sampling Location	:	EB 1 Up stream			
Description of Sample	:	Ground Water sample	Quantity/No. of Samples	:	05 Lit./One
Date of Sampling	:	23/02/2022	Sampling Procedure	:	IS:3025
Sampling by	:	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	:	QC/Env. Monitoring
Sample Receipt Date	:	24/02/2022	Lab ID.	:	BLD/2202/04
Packing/ Seal	:	Sealed	Test Parameters	:	As per table
Date of Starting of Test	:	24/02/2022	Date of Completion of Test	:	05/03/2022

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.63	IS 3025 (Part 11)
2	Colour	Co-pt	15	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	54.18	IS 3025 (Part – 14)
4	Turbidity	NTU	1.29	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	14	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	35208	IS 3025 (Part-16)
7	TOC	mg/L	8.60	APHA (23rd Edition) 5310 B
8	COD	mg/L	74	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4268	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	459	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.42	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	16106	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3398	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.53	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.39	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0019A** Issue Date : **05/03/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.14	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	322	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	831	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10962	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	230	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	8.1	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 0019A
Issue Date : 05/03/2022
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : EB 1 Up stream

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan: 0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor: 100 µg/l, Methoxy Chlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate 0.1 µg/l, 2,4 DDT: 0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD 0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE 0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate: 100 µg/l, Methyl Parathion: 0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinalphos: 100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin: 100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin: 100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB) 100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0020** Issue Date : **05/03/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 2 Down Stream (Borewell)**

Description of Sample	**Ground Water sample**	Quantity/No. of Samples	**05 Lit./One**
Date of Sampling	**23/02/2022**	Sampling Procedure	**IS:3025**
Sampling by	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	**QC/Env. Monitoring**
Sample Receipt Date	**24/02/2022**	Lab ID.	**BLD/2202/05**
Packing/ Seal	**Sealed**	Test Parameters	**As per table**
Date of Starting of Test	**24/02/2022**	Date of Completion of Test	**05/03/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.56	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	50.69	IS 3025 (Part – 14)
4	Turbidity	NTU	1.17	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	11	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	32906	IS 3025 (Part-16)
7	TOC	mg/L	7.8	APHA (23rd Edition) 5310 B
8	COD	mg/L	70	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4024	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	439	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.47	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14912	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3246	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.28	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.31	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 0020
Issue Date : 05/03/2022
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : EB 2 Down Stream (Borewell)

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.10	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	316	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	776	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10329	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	227	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.58	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 0020
Issue Date : 05/03/2022
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : EB 2 Down Stream (Borewell)

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides: Aldrin : 0.01 µg/l, Dieldrin: 0.01 µg/l, Alpha Endosulfan: 0.1 µg/l, Beta Endosulfan: 0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor: 100 µg/l, Methoxychlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate: 0.1 µg/l, 2,4 DDT: 0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD: 0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE: 0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor: 0.1 µg/l, Butachlor: 0.1 µg/l, Alpha-HCH: 0.001 µg/l, Beta-HCH: 0.01 µg/l, Gamma-HCH: 0.1 µg/l, Ethion: 0.1 µg/l, Delta HCH: 0.01 µg/l, Monocrotophos: 0.1 µg/l, Dimethoate: 100 µg/l, Methyl Parathion: 0.1 µg/l, Phosphamidon: 100 µg/l, Profenophos: 100 µg/l, Quinalphos: 100 µg/l, Deltamethrin: 100 µg/l, Fenpropethrin: 100 µg/l, Alpha-Cypermethrin: 100 µg/l, Beta-Cyfluthrin: 100 µg/l, Cyhalothrin: 100 µg/l, Pendimethalin: 100 µg/l, Dicofol: 100 µg/l, Hexachlorobenzene (HCB): 100 µg/l, Fluchloralin : 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No.	:	PL/BLD 0024
Issue Date	:	05/03/2022
Customer's Ref.	:	W.O. No. 8521220053 Dated:20.04.2021

Sampling Location	:	EB 3 Down Stream (Borewell)

Description of Sample	:	Ground Water sample	Quantity/No. of Samples	:	05 Lit./One
Date of Sampling	:	23/02/2022	Sampling Procedure	:	IS:3025
Sampling by	:	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	:	QC/Env. Monitoring
Sample Receipt Date	:	24/02/2022	Lab ID.	:	BLD/2202/10
Packing/ Seal	:	Sealed	Test Parameters	:	As per table
Date of Starting of Test	:	24/02/2022	Date of Completion of Test	:	05/03/2022

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.53	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	52.69	IS 3025 (Part – 14)
4	Turbidity	NTU	1.23	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	10	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	34246	IS 3025 (Part-16)
7	TOC	mg/L	7.6	APHA (23rd Edition) 5310 B
8	COD	mg/L	69	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	3914	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	416	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.23	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15168	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3074	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.25	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.21	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0024** Issue Date : **05/03/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.04	APHA(23rd Edition) 4110 B F.D SPANDS Method
27	Calcium as Ca	mg/L	286	IS 3025 (Part - 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	767	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10336	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	217	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.1	IS 3025 (Part--44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.01 mg/L, O&G : 2.0 mg/L, BOD :1.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. :	PL/BLD 0024
	Issue Date :	05/03/2022
	Customer's Ref. :	W.O. No. 8521220053 Dated:20.04.2021

Sampling Location	EB 3 Down Stream (Borewell)

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan 0.1 µg/l, Beta Endosulfan 0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD 0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate: 100 µg/l, Methyl Parathion 0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin: 100 µg/l, Alpha Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin: 100 µg/l, Pendimethalin:100 µg/l, Dicofol: 100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0025A** Issue Date : **05/03/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

Description of Sample : **Ground Water sample**		Quantity/No. of Samples : **05 Lit./One**	
Date of Sampling : **23/02/2022**		Sampling Procedure : **IS:3025**	
Sampling by : **Pollucon Laboratories Pvt. Ltd.**		Protocol (purpose) : **QC/Env. Monitoring**	
Sample Receipt Date : **24/02/2022**		Lab ID. : **BLD/2202/11**	
Packing/ Seal : **Sealed**		Test Parameters : **As per table**	
Date of Starting of Test : **24/02/2022**		Date of Completion of Test : **05/03/2022**	

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.32	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	50.42	IS 3025 (Part – 14)
4	Turbidity	NTU	1.13	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	10	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	32768	IS 3025 (Part-16)
7	TOC	mg/L	6.7	APHA (23rd Edition) 5310 B
8	COD	mg/L	65	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4026	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	422	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.17	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	14802	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3026	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.18	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.19	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0025A**
	Issue Date	: **05/03/2022**
	Customer's Ref.	: **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	0.98	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	306	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	794	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10468	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	203	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	< 6.8	IS 3025 (Part-44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Nercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L,Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, Fluorides as F:0.05 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. :	PL/BLD 0021
	Issue Date :	05/03/2022
	Customer's Ref. :	W.O. No. 8521220053 Dated:20.04.2021

Sampling Location	:	Nr. Gram Panchayat			
Description of Sample	:	Ground Water sample	Quantity/No. of Samples	:	05 Lit./One
Date of Sampling	:	23/02/2022	Sampling Procedure	:	IS:3025
Sampling by	:	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	:	QC/Env. Monitoring
Sample Receipt Date	:	24/02/2022	Lab ID.	:	BLD/2202/06
Packing/ Seal	:	Sealed	Test Parameters	:	As per table
Date of Starting of Test	:	24/02/2022	Date of Completion of Test	:	05/03/2022

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.59	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.67	IS 3025 (Part – 14)
4	Turbidity	NTU	0.28	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	443	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	129	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	212	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	124	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	12.86	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.073	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0021**
	Issue Date	**05/03/2022**
	Customer's Ref.	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	24.4	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	16.32	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	35.12	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	3.67	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part-44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: PL/BLD 0021
	Issue Date	: 05/03/2022
	Customer's Ref.	: W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin: 0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, HeptaklAlr:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor: 0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta HCH:0.01 µg/l, Gamma-HCh:0.1 µg/l Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinalfos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : PL/BLD 0025A Issue Date : 05/03/2022 Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l, Dimethoate: 100 µg/l, Methyl Parathion 0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyfluthrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0022** Issue Date : **05/03/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **23/02/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **24/02/2022**	Lab ID.	:	**BLD/2202/07**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **24/02/2022**	Date of Completion of Test	:	**05/03/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.61	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	1.19	IS 3025 (Part – 14)
4	Turbidity	NTU	0.64	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	769	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	258	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	249	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	303	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	43.61	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.083	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, **PLOT NO.D-43, GIDC, DAHEJ,** **DAHEJ-392130, TAL :- VAGRA,** **DISIT: BHARUCH**	Test Report No. : **PL/BLD 0022** Issue Date : **05/03/2022** Customer's Ref. : **W.O. No. 8521220053** **Dated:20.04.2021**

Sampling Location **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides: Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate: 100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0022**
	Issue Date	:	**05/03/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	52.4	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	30.48	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	69.3	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	5.46	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 0023
Issue Date : 05/03/2022
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : Inside Mandir

Description of Sample	: Ground Water sample	Quantity/No. of Samples	:	05 Lit./One
Date of Sampling	: 23/02/2022	Sampling Procedure	:	IS:3025
Sampling by	: Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	:	QC/Env. Monitoring
Sample Receipt Date	: 24/02/2022	Lab ID.	:	BLD/2202/08
Packing/ Seal	: Sealed	Test Parameters	:	As per table
Date of Starting of Test	: 24/02/2022	Date of Completion of Test	:	05/03/2022

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.38	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.67	IS 3025 (Part – 14)
4	Turbidity	NTU	0.23	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	429	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	120	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	226	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	110	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	11.76	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.067	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bejpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 0023
Issue Date : 05/03/2022
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : Inside Mandir

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	26.4	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	12.96	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	31.76	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	4.32	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part-44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD,
PLOT NO.D-43, GIDC, DAHEJ,
DAHEJ-392130, TAL :- VAGRA,
DISIT: BHARUCH

Test Report No. : PL/BLD 0023
Issue Date : 05/03/2022
Customer's Ref. : W.O. No. 8521220053 Dated:20.04.2021

Sampling Location : Inside Mandir

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides Aldrin: 0.01 µg/l, Dieldrin 0.01 µg/l, Alpha Endosulfan 0.1 µg/l, Beta Endosulfan: 0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:1.00 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT :0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor 0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH: 0.005 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH: 0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate: 100 µg/l, Methyl Parathion: 0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin: 100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin: 100 µg/l, Beta-Cyfluthrin:100 µg/l,Cyhalothrin: 100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0034** Issue Date : **07/04/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **28/03/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **29/03/2022**	Lab ID.	:	**BLD/2203/05**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **29/03/2022**	Date of Completion of Test	:	**07/04/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.47	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	55.46	IS 3025 (Part – 14)
4	Turbidity	NTU	1.35	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	11	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	36052	IS 3025 (Part-16)
7	TOC	mg/L	7.92	APHA (23rd Edition) 5310 B
8	COD	mg/L	75	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4312	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	438	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.64	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	16456	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3314	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.69	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.47	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0034**
	Issue Date	**: 07/04/2022**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.12	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	348	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	838	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	11024	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	238	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	8.14	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0034**
	Issue Date	:	**07/04/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 1 Up stream**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0035** Issue Date : **07/04/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 2 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **28/03/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **29/03/2022**	Lab ID.	:	**BLD/2203/06**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **29/03/2022**	Date of Completion of Test	:	**07/04/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.34	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	50.97	IS 3025 (Part – 14)
4	Turbidity	NTU	1.39	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	9.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33128	IS 3025 (Part-16)
7	TOC	mg/L	7.43	APHA (23rd Edition) 5310 B
8	COD	mg/L	72	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4128	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	410	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.37	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15630	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3394	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.39	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.41	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0035**
	Issue Date	**: 07/04/2022**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.06	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	332	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	802	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10812	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	239	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	7.28	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. :	**PL/BLD 0035**
	Issue Date :	**07/04/2022**
	Customer's Ref. :	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 2 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0036** Issue Date : **07/04/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **28/03/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **29/03/2022**	Lab ID.	:	**BLD/2203/07**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **29/03/2022**	Date of Completion of Test	:	**07/04/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.56	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.59	IS 3025 (Part – 14)
4	Turbidity	NTU	0.34	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	388	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	142	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	118	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	140	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	17.58	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.086	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0036**
	Issue Date	: **07/04/2022**
	Customer's Ref.	: **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	31.6	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	15.12	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	41.86	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	5.32	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0036**
	Issue Date	**: 07/04/2022**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Gram Panchayat**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0037** Issue Date : **07/04/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **28/03/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **29/03/2022**	Lab ID.	:	**BLD/2203/08**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **29/03/2022**	Date of Completion of Test	:	**07/04/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.69	IS 3025 (Part 11)
2	Colour	Co.pt.	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	1.16	IS 3025 (Part – 14)
4	Turbidity	NTU	0.56	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	758	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	236	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	238	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	304	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	35.87	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.076	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0037**
	Issue Date	: **07/04/2022**
	Customer's Ref.	: **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	59.6	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	20.88	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	79.32	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	6.75	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	:	**PL/BLD 0037**
	Issue Date	:	**07/04/2022**
	Customer's Ref.	:	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Nr. Bus Station**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l.

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0038** Issue Date : **07/04/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **28/03/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **29/03/2022**	Lab ID.	:	**BLD/2203/09**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **29/03/2022**	Date of Completion of Test	:	**07/04/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.52	IS 3025 (Part 11)
2	Colour	Hazen	5.0	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	0.64	IS 3025 (Part – 14)
4	Turbidity	NTU	0.22	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	412	IS 3025 (Part-16)
7	TOC	mg/L	Not Detected	APHA (23rd Edition) 5310 B
8	COD	mg/L	Not Detected	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	136	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	208	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	Not Detected	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	97	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	15.86	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	Not Detected	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.074	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

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TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0038**
	Issue Date	**: 07/04/2022**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	Not Detected	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	27.6	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	16.08	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	39.58	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	5.35	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	Not Detected	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L,Total Suspended Solids:2.0 mg/L,TOC:0.1 mg/L,COD:5.0 mg/L,Total Kjeldahl Nitrogen:0.2 mg/L,Fluorides as F:0.05 mg/L,BOD :1.0 mg/L,Nitrate :0.5 mg/L.

**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0038**
	Issue Date	**: 07/04/2022**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **Inside Mandir**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**PL/BLD 0039**
	Issue Date	**07/04/2022**
	Customer's Ref.	**W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location	:	**EB 3 Down Stream (Borewell)**

Description of Sample	:	**Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	:	**28/03/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	:	**Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	:	**29/03/2022**	Lab ID.	:	**BLD/2203/10**
Packing/ Seal	:	**Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	:	**29/03/2022**	Date of Completion of Test	:	**07/04/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.37	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	51.16	IS 3025 (Part – 14)
4	Turbidity	NTU	1.18	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	8.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	33246	IS 3025 (Part-16)
7	TOC	mg/L	7.14	APHA (23rd Edition) 5310 B
8	COD	mg/L	69	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4062	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	412	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.36	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15540	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3168	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.33	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.32	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0039**
	Issue Date	: **07/04/2022**
	Customer's Ref.	: **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.04	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	318	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	784	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10682	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	228	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.8	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L, Ammonical Nitrogen : 0.2 mg/L, Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, BOD :1.0 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0039**
	Issue Date	**: 07/04/2022**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 3 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No. : **PL/BLD 0040** Issue Date : **07/04/2022** Customer's Ref. : **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

Description of Sample	: **Ground Water sample**	Quantity/No. of Samples	:	**05 Lit./One**
Date of Sampling	: **28/03/2022**	Sampling Procedure	:	**IS:3025**
Sampling by	: **Pollucon Laboratories Pvt. Ltd.**	Protocol (purpose)	:	**QC/Env. Monitoring**
Sample Receipt Date	: **29/03/2022**	Lab ID.	:	**BLD/2203/11**
Packing/ Seal	: **Sealed**	Test Parameters	:	**As per table**
Date of Starting of Test	: **29/03/2022**	Date of Completion of Test	:	**07/04/2022**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
1	pH	--	7.33	IS 3025 (Part 11)
2	Colour	Co-pt	10	IS 3025 (Part 4)
3	Conductivity	mmhos/cm	50.57	IS 3025 (Part – 14)
4	Turbidity	NTU	1.39	APHA (23rd Edition) 2130 B
5	Total Suspended Solids	mg/L	9.0	IS 3025 (Part – 17)
6	Total Dissolved Solids	mg/L	32864	IS 3025 (Part-16)
7	TOC	mg/L	6.84	APHA (23rd Edition) 5310 B
8	COD	mg/L	65	APHA (23rd Edition) 5220 B Open Reflux Method
9	Total Hardness	mg/L	4106	IS 3025 (Part – 21) EDTA Method
10	Total Alkalinity	mg/L	408	IS 3025 (Part – 23)
11	Total Kjeldahl Nitrogen	mg/L	1.30	IS :3025 (Part-34) Clause 2.3 (Reaffirmed 2009)
12	Chlorides as Cl	mg/L	15180	APHA(23rd Edition) 4110 B Argentometric Method
13	Sulphates as SO_4	mg/L	3182	APHA(23rd Edition) 4110 B
14	Nitrate	mg/L	1.34	APHA(23rd Edition) 4110 B
15	Lead as Pb	mg/L	Not Detected	APHA(23rd Edition) 4110 B
16	Cadmium as Cd	mg/L	Not Detected	APHA(23rd Edition) 4110 B
17	Copper as Cu	mg/L	Not Detected	APHA(23rd Edition) 4110 B
18	Total Chromium	mg/L	Not Detected	APHA(23rd Edition) 4110 B
19	Mercury as Hg	mg/L	Not Detected	APHA(23rd Edition) 4110 B
20	Nickel as Ni	mg/L	Not Detected	APHA(23rd Edition) 4110 B
21	Cyanides as CN	mg/L	Not Detected	APHA (23rd Edition) 4500 CN E Colorimetric Method
22	Arsenic as As	mg/L	Not Detected	APHA (23rd Edition) 3114 B
23	Manganese as Mn	mg/L	Not Detected	APHA (23rd Edition) 3111 B
24	Iron as Fe	mg/L	0.23	APHA (23rd Edition) 3111 B
25	Zinc as Zn	mg/L	Not Detected	APHA (23rd Edition) 3111 B

Continue...

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST REPORT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0040**
	Issue Date	: **07/04/2022**
	Customer's Ref.	: **W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	METHOD ADOPTED
26	Fluorides as F	mg/L	1.06	APHA(23rd Edition) 4110 B F D SPANDS Method
27	Calcium as Ca	mg/L	328	IS 3025 (Part – 40) EDTA Titrimetric Method)
28	Magnesium as Mg	mg/L	798	Is 3025 (Part-46) EDTA Method
29	Sodium as Na	mg/L	10412	APHA (23rd Edition) 3111 B
30	Potassium as K	mg/L	218	IS 3025 (Part 45) K B/ Flame Photometer
31	BOD	mg/L	6.27	IS 3025 (Part–44)
32	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part-34) Nesslerization Method
33	O&G	mg/L	Not Detected	APHA (23rd Edition) 5520 B
34	Pesticides**	µg/L	Absent	USEPA 508 / USEPA 525.2 / USEPA 532

Detection Limit: Lead as Pb : 0.005 mg/L,Cadmium as Cd : 0.002 mg/L,Copper as Cu : 0.02 mg/L,Total Chromium : 0.025 mg/L,Mercury as Hg: 0.0006 mg/L,Arsenic as As: 0.005 mg/L, Nickel as Ni:0.01 mg/L, Manganese as Mn:0.01 mg/L,Cyanides as CN: 0.001 mg/L, Zinc : 0.05 mg/L, O&G : 2.0 mg/L, Fluorides as F:0.05 mg/L.
**attached pesticides list

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle,Udhana Magdalla Road, Surat-395007, Gujarat, India.
Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST REPORT

QF/7.8/37-WT

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	**: PL/BLD 0040**
	Issue Date	**: 07/04/2022**
	Customer's Ref.	**: W.O. No. 8521220053 Dated:20.04.2021**

Sampling Location : **EB 4 Down Stream (Borewell)**

RESULT TABLE

SR. NO.	Pesticides/Insecticides	UNIT	RESULT	METHOD ADOPTED
34.1	Aldrin	µg/l	Absent	USEPA 508
34.2	Dicofol	µg/l	Absent	USEPA 508
34.3	Dieldrin	µg/l	Absent	USEPA 508
34.4	Alpha Endosulfan	µg/l	Absent	USEPA 508
34.5	Beta Endosulfan	µg/l	Absent	USEPA 508
34.6	Sulphate Endosulfan	µg/l	Absent	USEPA 508
34.7	Heptachlor	µg/l	Absent	USEPA 525.2
34.8	Hexachlorobenzene (HCB)	µg/l	Absent	USEPA 508
34.9	Methoxy Chlor	µg/l	Absent	USEPA 508
34.10	Alpha-HCH	µg/l	Absent	USEPA 508
34.11	Beta-HCH	µg/l	Absent	USEPA 508
34.12	Gamma-HCH	µg/l	Absent	USEPA 508
34.13	2,4 DDT	µg/l	Absent	USEPA 508
34.14	2,4 DDD	µg/l	Absent	USEPA 508
34.15	2,4 DDE	µg/l	Absent	USEPA 508
34.16	4,4 DDT	µg/l	Absent	USEPA 508
34.17	4,4 DDE	µg/l	Absent	USEPA 508
34.18	4,4 DDD	µg/l	Absent	USEPA 508
34.19	Delta HCH	µg/l	Absent	USEPA 508
Organo Phosphorous Pesticides(OPPs)				
34.20	Chlorpyriphos	µg/l	Absent	USEPA 525.2
34.21	Ethion	µg/l	Absent	USEPA 525.2
34.22	Malathion	µg/l	Absent	USEPA 525.2
34.23	Monocrotophos	µg/l	Absent	USEPA 525.2
34.24	Phorate	µg/l	Absent	USEPA 525.2
34.25	Methyl Parathion	µg/l	Absent	USEPA 525.2
34.26	Quinaphos	µg/l	Absent	USEPA 525.2
Synthetic Pyrethroids (SPs)				
34.27	Deltamethrin	µg/l	Absent	USEPA 525.2
34.28	Fenpropethrin	µg/l	Absent	USEPA 525.2
34.29	Alpha-Cypermethrin	µg/l	Absent	USEPA 525.2
34.30	Cyhalothrin	µg/l	Absent	USEPA 525.2
Herbicides				
34.31	Alachlor	µg/l	Absent	USEPA 525.2
34.32	Butachlor	µg/l	Absent	USEPA 525.2
34.33	Fluchloralin	µg/l	Absent	USEPA 525.2
34.34	Pendimethalin	µg/l	Absent	USEPA 525.2

Pesticides:Aldrin :0.01 µg/l, Dieldrin:0.01 µg/l, Alpha Endosulfan:0.1 µg/l, Beta Endosulfan:0.1 µg/l, Sulphate Endosulfan: 0.1 µg/l, Heptachlor:100 µg/l, MethoxyChlor: 100 µg/l, Chlorpyriphos: 0.1 µg/l, Malathion: 0.1 µg/l, Phorate:0.1 µg/l, 2,4 DDT:0.1 µg/l, 2,4 DDE: 0.1 µg/l, 2,4 DDD:0.1 µg/l, 4,4 DDT: 0.1 µg/l, 4,4 DDE:0.1 µg/l, 4,4 DDD: 0.1 µg/l, Alachlor:0.1 µg/l, Butachlor: 0.1 µg/l,Alpha-HCH:0.001 µg/l, Beta-HCH:0.01 µg/l, Gamma-HCH:0.1 µg/l, Ethion:0.1 µg/l, Delta HCH:0.01 µg/l, Monocrotophos:0.1 µg/l Dimethoate:100 µg/l, Methyl Parathion:0.1 µg/l, Phosphamidon:100 µg/l, Profenophos: 100 µg/l, Quinaphos:100 µg/l, Deltamethrin:100 µg/l, Fenpropethrin:100 µg/l, Alpha-Cypermethrin:100 µg/l, Beta-Cyfluthrin:100 µg/l, Cyhalothrin:100 µg/l, Pendimethalin:100 µg/l, Dicofol:100 µg/l, Hexachlorobenzene (HCB):100 µg/l, Fluchloralin: 100 µg/l..

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

TEST CERTIFICATE FOR SOIL

QF/7.8/38-EX

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, **PLOT NO.D-43, GIDC, DAHEJ,** **DAHEJ-392130, TAL :- VAGRA,** **DISIT: BHARUCH**	Test Report No. : **PL/BLD 0013** Issue Date : **02/02/2022** Customer's Ref. : **W.O.No.8520210015 Dated:14.04.2020**

Description of Sample	: **Soil Sample**		
Date of Sampling	: **22/01/2022**	Quantity/No. of Samples	: **02 Kg/Three**
Sampling By	: **Pollucon Laboratories Pvt. Ltd.**	Sampling Procedure	: **USEPA/IS 2720 etc.**
Sample Receipt Date	: **24/01/2022**	Protocol (purpose)	: **USEPA/IS 2720 etc.**
Packing/ Seal	: **Sealed**	Lab ID	: **BLD/2201/12 & 14**
Date of Starting of Test	: **24/01/2022**	Test Parameters	: **As per table**
Test Method	: **USEPA/IS 2720 etc.**	Date of Completion of Test	: **02/02/2022**

TEST RESULT

SR. NO.	TEST PARAMETERS	UNIT	RESULT		
			Near EB-1	**Opp. Salt Farm**	**Near EB-2**
1	pH	--	8.59	8.32	8.18
2	Conductivity	µmho/cm	2370	3268	1729
3	TDS	%	1.06	1.86	1.78
4	TOC	%	0.86	0.93	0.53
5	Cadmium BY TCLP	mg/L	Not Detected	Not Detected	Not Detected
6	Fluoride	mg/L	1.27	1.18	0.81
7	Lead Analyzed By TCLP	mg/L	0.31	0.37	Not Detected
8	Copper Analyzed By TCLP	mg/L	0.41	0.36	0.42
9	Chromium Analyzed By TCLP	mg/L	0.32	0.28	0.20
10	Mercury Analyzed By TCLP	mg/L	Not Detected	Not Detected	Not Detected
11	Nickel Analyzed By TCLP	mg/L	0.64	0.69	0.59
12	Cyanide	mg/L	Not Detected	Not Detected	Not Detected
13	Zinc Analyzed By TCLP	mg/L	0.92	0.83	0.43
14	Arsenic Analyzed By TCLP	mg/L	Not Detected	Not Detected	Not Detected
15	PAH	mg/L	Not Detected	Not Detected	Not Detected

ND*: Not Detected

H. T. Shah
Lab. Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR SOIL

QF/7.8/38-EX

Customer's Name and Address :

M/s. BEIL INFRATSTRCTURE LTD, PLOT NO.D-43, GIDC, DAHEJ, DAHEJ-392130, TAL :- VAGRA, DISIT: BHARUCH	Test Report No.	: **PL/BLD 0014**
	Issue Date	: **02/02/2022**
	Customer's Ref.	: **W.O.No.8520210015 Dated:14.04.2020**

Description of Sample	: **Soil Sample**				
Date of Sampling	: **22/01/2022**	Quantity/No. of Samples	:	**02 Kg/Three**
Sampling By	: **Pollucon Laboratories Pvt. Ltd.**	Sampling Procedure	:	**USEPA/IS 2720 etc.**
Sample Receipt Date	: **24/01/2022**	Protocol (purpose)	:	**USEPA/IS 2720 etc.**
Packing/ Seal	: **Sealed**	Lab ID	:	**BLD/2201/15 & 17**
Date of Starting of Test	: **24/01/2022**	Test Parameters	:	**As per table**
Test Method	: **USEPA/IS 2720 etc.**	Date of Completion of Test	:	**02/02/2022**

TEST RESULT

SR. NO.	TEST PARAMETERS	UNIT	RESULT		
			Opp. Khetan Industries	Near ADM Building	Behind Teqrosh Company
1	pH	–	8.19	8.54	8.73
2	Conductivity	µmho/cm	2729	1673	2680
3	TDS	%	1.52	0.98	1.21
4	TOC	%	0.39	0.49	0.97
5	Cadmium BY TCLP	mg/L	Not Detected	Not Detected	Not Detected
6	Fluoride	mg/L	0.89	1.18	1.29
7	Lead Analyzed By TCLP	mg/L	0.20	Not Detected	Not Detected
8	Copper Analyzed By TCLP	mg/L	0.37	0.28	0.35
9	Chromium Analyzed By TCLP	mg/L	0.09	0.13	0.18
10	Mercury Analyzed By TCLP	mg/L	Not Detected	Not Detected	Not Detected
11	Nickel Analyzed By TCLP	mg/L	0.46	0.56	0.67
12	Cyanide	mg/L	Not Detected	Not Detected	Not Detected
13	Zinc Analyzed By TCLP	mg/L	0.32	0.63	0.79
14	Arsenic Analyzed By TCLP	mg/L	Not Detected	Not Detected	Not Detected
15	PAH	mg/L	Not Detected	Not Detected	Not Detected

ND*: Not Detected

H. T. Shah
Lab. Manager

Dr. ArunBajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

BEIL INFRASTRUCTURE LTD DAHEJ

Monitoring of Gas Vent Provided in SLF

Sr.No.	Location	VOC Results in ppb			H2S Results in ppm		
		06-04-2022	19-05-2022	02-06-2022	06-04-2022	19-05-2022	02-06-2022
1	VENT-1	BDL	BDL	BDL	BDL	BDL	BDL
2	VENT-2	BDL	BDL	BDL	BDL	BDL	BDL
3	VENT-3	BDL	BDL	BDL	BDL	BDL	BDL
4	VENT-4	BDL	BDL	BDL	BDL	BDL	BDL
5	VENT-5	BDL	BDL	BDL	BDL	BDL	BDL
6	VENT-6	BDL	BDL	BDL	BDL	BDL	BDL
7	VENT-7	BDL	BDL	BDL	BDL	BDL	BDL
8	VENT-8	BDL	BDL	BDL	BDL	BDL	BDL

For, BEIL INFRASTRUCTURE LTD.

Mr.Ashish Chaudhari
(Sr.Officer-Q.A.)

Mr.Sathish Gaddam
(Sr.Manager-Q.A.)

BEIL INFRASTRUCTURE LTD DAHEJ

Monitoring of Gas Vent Provided in SLF

Sr.No.	Location	VOC Results in ppb			H2S Results in ppm		
		08-07-2022	11-08-2022	05-09-2022	08-07-2022	11-08-2022	05-09-2022
1	VENT-1	BDL	BDL	BDL	BDL	BDL	BDL
2	VENT-2	BDL	BDL	BDL	BDL	BDL	BDL
3	VENT-3	BDL	BDL	BDL	BDL	BDL	BDL
4	VENT-4	BDL	BDL	BDL	BDL	BDL	BDL
5	VENT-5	BDL	BDL	BDL	BDL	BDL	BDL
6	VENT-6	BDL	BDL	BDL	BDL	BDL	BDL
7	VENT-7	BDL	BDL	BDL	BDL	BDL	BDL
8	VENT-8	BDL	BDL	BDL	BDL	BDL	BDL

For, BEIL INFRASTRUCTURE LTD.

Mr.Ashish Chaudhari
(Sr.Officer-Q.A.)

Mr.Sathish Gaddam
(Sr.Manager-Q.A.)

ANNEXURE - 5

D-1420

દહેજ ગામ પંચાયત

DAHEJ GAM PANCHAYT

મુ.પો. દહેજ, તા.વાગરા, જી.ભરૂચ

AT. & PO. DAHEJ, TA.VAGRA, DIST. BHARUCH

તા :. ૧૩/૦૯/૨૦૨૨

પ્રતિ શ્રી,
મહે. ડાયરેક્ટરશ્રી,
અશોક પંજવાણી/બી.ડી.દલવાડી,
બીઈઆઈએલ ઈન્ફાસ્ટ્રક્ચર લીમીટેડ,
પ્લોટ નં-ડી/૪૩,દહેજ,

વિષય : દહેજ ગામમાં સામાજીક વનીકરણ - ટ્રી પ્લાન્ટેશન કરવા માટે જમીન ફાળવવા બાબત.

સવિનય સહ ઉપરોકત વિષય અન્વયે દહેજ ગામનાં સરપંચશ્રીનું જણાવવાનું કે આપ સાહેબશ્રીની અરજી મુજબ દહેજ ગામમાં ભગત સોલ્ટ પાસે સામાજીક વનીકરણ માટે ૨૦ એકર જમીન ફાળવવા બાબત નાં અનુસંધાનમાં દહેજ ગામનાં સ.નં :- ૧૫૦૪અ૧ જે સરકારી ખરાબા ની છે. તે પૈકીની ૨૦ એકર જમીન પર આપ સાહેબની કંપની દ્વારા સામાજીક વનીકરણ ટ્રી - પ્લાન્ટેશન કરવામાં આવે તો નીચેની શરતોને આધીન કરવામાં આવે જે આપશ્રીને જાણ થવા વિનંતી. જેનો ઠરાવ ગ્રામપંચાયત સામાન્ય સભામાં કરવામાં આવેલ છે.

શરતો :-

(૧) આ જગ્યાની માલિકી ગ્રામપંચાયત ની રહેશે.

સરપંચ
ગામ પંચાયત-દહેજ
તા. વાગરા, જી. ભરૂચ

સ્થળ :- દહેજ,
તારીખ :- ૧૩/૦૯/૨૦૨૨

BEIL INFRASTRUCTURE LIMITED
(formerly known as Bharuch Enviro Infrastructure Limited)
Unit - Dahej

Ref: BEIL/DHJ/2022-23/11

Date: 21.06.2022
PCB ID # 40137

The Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan
Sector – 10 / A
Gandhinagar – 382 043

Dear Sir,

Sub: Environmental Statement for the year 2021-22

We are forwarding herewith Environmental Statement for our TSDF Facility (Centralized Secured Landfill Facility) situated at BEIL, Plot No D-43 G.I.D.C, Dahej, Ta: Vagra. Dist. Bharuch for the period of year 2021-22

We are forwarding copy of the Manifest regarding collection and disposal of waste from our member industries to GPCB Bharuch on a regular basis.

We have received following CTE & CCA Amendment from GPCB during the last year

1. CTE Amd - 99998 for Name change and Fuel Change.
2. CCA Amd - 113917 for Capacity Enhancement of landfill cells.
3. CTE Amd- 115207 for installation of scrubber with stabilization system & paddle dryer system.
4. CCA Amd H-117353 under Rule 09 for utilization of Magnesium Chloride Salts as a raw material in MAP treatment.

Also, we would like to bring to your kind attention that we have got certification of ISO 14001:2015 & ISO 45001:2018

Also, we would like to bring to your kind attention that our laboratory has been accredited by NABL.

We hope that the above is in order.

Thanking you
Yours faithfully
For, BEIL Infrastructure Ltd

Authorized Signatory

Encl: a/a
CC: The Regional Officer
Gujarat Pollution Control Board
Bharuch

CIN NO. U45300GJ1997PLC032696
Works Office : Plot No. D-43, Dahej Amod Road, GIDC Estate, Dahej, T. Vagra - 392 130, Dist. Bharuch (Gujarat)
Phone : (02641) 291129, E-mail : mistryrg@beil.co.in
Regd. Office : Plot No. 9701-16, GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 225228 Fax : (02642) 222849 E-mail : dalwadibd@beil.co.in

ENVIRONMENTAL STATEMENT

Environmental Statement for the financial year ending 31st March 2022

PART - A

01	Name and address of the owner / occupier of the industry / operation or process		Chairman – Mr. Rajjubhai D. Shroff Director – Mr. Ashok Panjwani Operator – Mr. B.D. Dalwadi
			BEIL Infrastructure Ltd Plot # D-43, GIDC, Dahej, Ta : Vagra Dist : Bharuch
02	Industry Category	Primary – STC Code	
		Secondary–SIC Code	
03	Production capacity	Units	Not applicable, it is a TSDF Facility (Common Secured Landfill Facility)
04	Year of establishment		2015
05	Date of the last Environmental Statement submitted		07.06.2021

PART – B

01 Water and Raw material Consumption

01	Water Consumption	107.52 m^3/day
02	Process	9.49 m^3/day
03	Domestic	89.618 m^3/day
04	Biodegradable	8.49 m^3/day

Sr. No.	Name of Products (*)	Process Water Consumption per unit of product output	
		During the previous financial year	During the current financial year
1.	There is no manufacturing activity as this is a TSDF Facility		

(*) Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw material used.

02 Raw Material Consumption

Sr. No.	Name of Products (*)	Consumption of raw material (in Kgs)	
		During the previous financial year	During the current financial year
Not applicable. It is a TSDF Facility (Common Secured Landfill Facility)			

PART - C

Pollution discharged to environment / unit of output
(Parameters as specified in the Consent issued)

Sr, No.	Pollutants	Quantity of pollutants discharged	Concentrations of pollutants in discharges (mass / volume)	Percentage of variation from prescribed Standards with reasons
A	Water	**8297.40 KL** of Leachate collected from Leachate well of Secured landfill facility. **8297.40 KL** Leachate is treated in in-house MEE at BEIL Dahej.	The Leachate is neutral containing trace organics and impurities.	Leachate from landfill & Wastewater generated from Laboratory is treated at BEIL, Dahej.
B	Air	Generated pollutant from Spray Dryer stack and Boiler stack. DG Set are negligible.	From DG, Boiler & Spray Dryer Set stacks: PM < 150 mg/Nm^3 SO_x < 100 mg/Nm^3 NO_x < 50 mg/Nm^3	All parameters specified in CC & A are within limits
		Generated Pollution form Scrubber of De-contamination	PM < 150 mg/Nm3 HCl < 20 mg/Nm3 Cl_2 < 09 mg/Nm3	All parameters specified in CC & A are within limits

Part – D
Hazardous Waste

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.)

	Hazardous Wastes	Total Quantity (MT)	
		During the previous financial year 2020-21	During the current financial year 2021-22
a	From Process	(*)	(*)
b	From pollution control facilities (MEE salt & ETP Sludge)	6982.834 MT	8749.66 MT

(*) This being a TSDF Facility (Common Secured Landfill Facility), different types of wastes permitted by GPCB, are collected from member industries, and disposed at the landfill site as per CPCB guideline. Please see the attached Table for quantity disposed at the site.

Part – E
Solid Waste

	Hazardous Wastes	Total Quantity (MT)	
		During the previous financial year 2020-21	During the current financial year 2021-22
A	From Process	(*)	(*)
B	From pollution control facilities (generation)	**NIL**	**NIL**

C	Quantity re-cycled or re-utilized within the unit	**NIL**	**NIL**
	Total quantity disposed off for landfill	**200135.551 MT**	**2,32,141.16 MT**
	This is being a TSDF Facility (Common Secured Landfill Facility), different types of wastes permitted for landfill by GPCB, are collected from member industries and disposed at the site. Please see the attached Table for quantity disposed at the site.		

Part – F

Please specify the characteristics (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

BEIL is receiving accepted types of wastes for secured landfilling. If waste is not meeting criteria for direct landfilling, necessary treatment like neutralization / stabilization etc. are given. Leachate generated is treated at in-house MEE followed by Spray Dryer

Part – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

The Company has implemented Environmental Management System Standards ISO 14001:2015 & ISO 45001:2018 and helped in improving overall environmental condition and Safety of the unit.

This being a TSDF Facility (Common Secured Landfill Facility), there is no processing activity. We are collecting solid / hazardous wastes from our members and treating & disposing off. We are drawing samples from every truck coming to our site and a Quick Analysis is done for pH, Moisture Content and Organic Content, Paint Filter Liquid Test etc. Also, we are verifying whether waste is uniform and is not having any obnoxious smell. Also, detailed analysis of solid / hazardous waste samples is done at the laboratory. During monsoon period, the site is kept covered. We have also provided a storage facility for keeping the solid / hazardous wastes collected during monsoon. Leachate generated from the landfill is treated in in-house MEE at BEIL Dahej.
Landfill Site (Cell-I): - Capped
Landfill Site (Cell II & V): - Partially capped
Landfill Site (Cell III & Cell IV): - Under Operation

BEIL has installed multiple effect evaporation system (MEE), which is energy efficient compared to other evaporation system. We have Received CCA on 16.12.2017 and it is in operation.

Part – H

Addition measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- GPCB XGN Online manifest system implemented for all industries.
- Laboratory at BEIL is NABL accredited.
- BEIL is also going for recognition of MoEF for Laboratory.
- Total investment for environmental protection including abatement of pollution, prevention of pollution is approximate 1,30,96,914 Lacs during the year 2021-2022. Details are as following:
    - ✓ Tarpaulin covering with LDPE sheet.

- ✓ Install Bag House filter instead of Cyclone Separator for Reduction of Spray dryer plant stack SPM minimum 20% and scrubber Caustic Consumption reduce minimum 50%
- ✓ Install ultra-Filtration for increasing RO plant recovery.

Part – I

Any other particulars for improving the quality of the environment.

- BEIL has implemented Environmental Management System Standards ISO 14001:2015 & ISO 45001:2018. Implementation of ISO 14001:2015 & ISO 45001:2018 has helped in improvement of the environmental protection and Safety.
- For the design of secured landfill, guidance is sought from Indian Institute of technology (IIT), New Delhi, who are the experts in the areas of hazardous waste management. All the designs are approved from IIT, New Delhi.
- Lot of NGOs, community members, journalists, students, and industrialists are visiting BEIL and appreciating the operations. BEIL is exhibiting various details in front of the landfill. All the visitors are welcome.
- BEIL is maintaining a proper Manifest system as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. This helps in keeping proper records.
- Laboratory has been augmented. Laboratory got recognition of NABL.
- Green belt is developed around the periphery.

For, **BEIL Infrastructure Limited, Dahej**

Authorized Signatory

BEIL INFRASTRUCTURE LTD
DAHEJ

LANDFILLING DETAILS

Quantity of solid / hazardous waste received and disposed off
During April- 2021 to March – 2022

Sr No	Month	Received Quantity	Disposed Quantity
All quantity in MT			
1	April- 2021	28563.01	28563.01
2	May- 2021	18983.12	18983.12
3	June -2021	10993.728	0
4	July -2021	8202.17	0
5	August -2021	9066.025	0
6	September -2021	9690.085	0
7	October -2021	11803.465	10337
8	November-2021	27013.69	33013.9
9	December -2021	29481.984	39982
10	January- 2022	35359.555	42759.555
11	February- 2022	31361.95	38361.95
12	March - 2022	27140.855	20140.86
TOTAL		**2,47,659.64**	**2,32,141.16**

BEIL INFRASTRUCTURE LTD
DAHEJ

Decontamination & detoxify facility
During April- 2021 to March – 2022

Month	No. of Drum decontaminated & detoxified
April- 2021	3380
May- 2021	2153
June -2021	3297
July -2021	3300
August -2021	6806
September -2021	4719
October -2021	4757
November-2021	5314
December -2021	6667
January- 2022	7469
February- 2022	7500
March - 2022	5880
Total	**61242**

BEIL INFRASTRUCTURE LTD
DAHEJ

Wastewater generated from Landfill (Leachate) sent to MEE at BEIL, Dahej during April- 2021 to March – 2022

Month	Generated Leachate from land filling Treated in in-house MEE (KL)
April- 2021	358.10
May- 2021	727.70
June -2021	664.00
July -2021	1064.80
August -2021	560.00
September -2021	698.00
October -2021	976.10
November-2021	555.9
December -2021	769.7
January- 2022	618.6
February- 2022	622
March - 2022	682.5
Total	**8297.40**

F. No. 10-43/2016-IA-III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 3

Date: 19th December, 2018

To,

The Chief Executive Officer
M/S Bharuch Enviro Infrastructure Limited
Plot No. D-43, Dahej Induistrial Estate,
Taluka Vagra, District Bharuch - 3921302 (Gujarat)
E-mail: dalwadibd@beil.co.in

Subject: Installation of Two Incinerators and Capacity Enhancement of Existing Landfill Facility at existing Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF) at plot number D-43, Dahej Industrial Estate, Taluka Vagra, District Bharuch by M/s Bharuch Enviro Infrastructure Limited - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No. IA/GJ/MIS/55789/2016 dated 11th June, 2018, submitted to this Ministry for grant of Environmental Clearance (EC) in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986.

2. The proposal for grant of environmental clearance to the project 'Installation of Two Incinerators and Capacity Enhancement of Existing Landfill Facility' at existing Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF) at plot number D-43, Dahej Industrial Estate, Taluka Vagra, District Bharuch by M/s Bharuch Enviro Infrastructure Limited, was considered by the Expert Appraisal Committee (Infra-2) in its 32nd meeting held on 2-4 July, 2018 and 35th meeting held on 29-31 October, 2018. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above meeting, are as under:-

(i) M/s BEIL proposes to install two Incinerators and enhance the capacity of existing secured landfill facility (SLF) at Plot No. D-43, Dahej Industrial Estate, Taluka Vagra, Dist. Bharuch, Gujarat. Earlier the BEIL has obtained environment clearance for existing TSDF in July 2013 vide letter no. SEIAA/GUJ/EC/7(d)/227/2013. The proposed project is for Installation of two Incinerators I & II: having capacity of 12 Million Kcal/hour each and capacity enhancement of existing secured landfill facility from 14LMT to 19 LMT.

(ii) The proposed project is Category "A "Common hazardous waste treatment, storage and disposal facilities (TSDFs) listed under activity 7 (d) as per EIA Notification dated 14th September 2006 as it is proposed to upgrade the facility integrated facilities having incineration & landfill.

(iii) Due to growth of chemical Industries in the Dahej industrial area, generation of hazardous waste Landfillable & incinerable waste has been increasing many folds. The existing secured landfill is likely to get exhausted much before planed period at the current rate of waste generation & disposal. Therefore, it is proposed to enhance the capacity of SLF from 14 lakhs MT to

19 lakhs MT and addition of two Incinerators. All the other facilities such as infrastructure, laboratory is already available at the existing site.

(iv) Details of existing and proposed facilities are as under:

Particulars	Existing	Proposed
Land area	2,85,343.76 m^2	Nil
Secured landfill capacity	14 LMT	19LMT
Incinerator	Nil	2 Nos.12 Million Kcal/hour each
Water consumption	466 KLD	900 KLD
Power	475 KVA	1920 KVA
D.G.	1 no. 600 KVA	2 nos. (600 KVA + 900 KVA) capacity
Employment	Employee- 23 Worker- 84	Construction phase 150 workman Operation phase: 60 workmen

(v) Water consumption for the proposed project is 900 KLD and will be met from GIDC water supply.

(vi) Leachate/effluent from landfill will be treated in Multiple Effect Evaporator (MEE) plant. The waste water from incinerator shall be used for quenching. Municipal spoil waste generated from the project shall be disposed as per MSW Rules, 2016.

(vii) Hazardous solid waste generated as the residue from MEE after treatment of leachate and residue ash generated from incineration of hazardous waste shall be disposed in the landfill. Transportation of hazardous solid waste is done as per guidelines of CPCB. The TSDF have approved transporter authorization with dedicated vehicle (hydraulics) for transportation of wastes.

(viii) The proposed project shall be an important endeavor to mitigate the degradation of environment in the region.

(ix) ToR for the proposed project was approved by MoEF & CC on dated 26th October, 2016 vide Letter no F.No. -10-43/2016-IA-III.

(x) Public Hearing was exempted vide amendment in ToR issued vide letter dated 14th May, 2018, as Dahej Industrial Estate of GIDC is a part of Development of Petroleum, Chemical and Petro-chemical Investment Region (PCPIR) Dahej, Dist. Bharuch. The PCPIR has already obtained Environmental Clearance on 17th September, 2017 vide letter 21-49/2010/-IA-III for the entire industrialized region. The Public hearing for the same was also conducted on 30th July, 2014.

(xi) Investment/Cost of the project is approx. Rs. 64 Crore.

(xii) Benefits of the project: There will be a positive environmental impact by collecting and disposing the hazardous waste in the scientific manner that will reduce the future health hazard. It is expected that additional people will get employment and hence job opportunities for the local people as well as migrants from nearby areas would increase.

(xiii) Employment potential: About 150 persons (construction phase) & 60 persons (operational phase).

3. The project/activity is covered under category 'A' of item 7(d) Common hazardous waste Treatment, Storage and Disposal Facilities (TSDFs) of the

Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at Central Level.

4. The EAC, in its 35th meeting held on 29-31 October, 2018, deliberated on the proposal including certified compliance report letter No. 18-A-96/2013(Parya)/943 dated 28.08.2017 (inspection done on 06.06.2017) issued by the MoEF&CC's Regional Office (Western Region), Bhopal. The EAC, on being satisfied with the submissions of the project proponent, recommended the project for grant of environmental clearance to the project. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project 'Installation of Two Incinerators and Capacity Enhancement of Existing Landfill Facility at existing Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF) at plot number D-43, Dahej Industrial Estate, Taluka Vagra, District Bharuch by M/s Bharuch Enviro Infrastructure Limited, under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the specific and general conditions as under:-

PART A – SPECIFIC CONDITIONS:

(i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.

(ii) The Project proponent should ensure that the TSDF fulfils all the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016.

(iii) Ground water abstraction shall be as prescribed by the CGWA. A clearance/permission of the CGWA shall be obtained in this regard.

(iv) It shall be ensured that all the trees and other plantation are of the non edible varieties and do not in any way encourage the incorporation of toxic materials in the food chain.

(v) The TSDF should only handle the waste generated from the member units.

(vi) As proposed, air pollution control device viz. gas quencher; treatment with mixture of hydrated lime and activated powder for adsorption of partial acidity and VOCs (if any); bagfilter/ESP for removal of particulate matter; ventury scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gas; and demister column for arresting water carry over will be provided to the incinerator. Online pollutant monitoring shall be provided as per CPCB guidelines for monitoring particulate matter, SO_2, NOx and CO from the incinerator stack. The periodical monitoring of Dioxins and Furans in the Stack emissions shall be carried out.

(vii) Analysis of Dioxins and Furans shall be done through CSIR – National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram or equivalent NABL Accredited laboratory.

(viii) The project proponents shall adhere to all conditions as prescribed in the Protocol for 'Performance Evaluation and Monitoring of the Common Hazardous Waste Treatment, Storage and Disposal Facilities' published by the CPCB in May, 2010.

(ix) Incinerator shall be designed as per CPCB guidelines. Energy shall be recovered from incinerator.

(x) Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board / CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC.

(xi) Ambient air quality monitoring shall be carried out in and around the landfill site at up wind and downwind locations.

(xii) The depth of the land fill site shall be decided based on the ground water table at the site and may be such as permitted by the Pollution Control Board.

(xiii) Environmental Monitoring Programme shall be implemented as per EIA report and guidelines prescribed by CPCB for hazardous waste facilities. Periodical ground water/soil monitoring to check the contamination in and around the site shall be carried out.

(xiv) The Company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.

(xv) On line real time continuous monitoring facilities shall be provided as per the CPCB or State Board Directions.

(xvi) No non hazardous wastes, as defined under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, shall be handled in the premises.

(xvii) Gas generated in the Land fill should be properly collected, monitored and flared.

(xviii) Project Proponent shall develop green belt with native plant species that are significant and used for the pollution abatement. At least 10 m thick greenbelt shall be developed in the periphery of hazardous waste facility.

(xix) Project should ensure that the site is properly cordoned off from general movement and no unauthorized person or goods permitted to enter the premises. Necessary security provision should be made as a condition in the Authorization under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 to prevent unwanted access.

(xx) Pre medical check-up to be carried out on workers at the time of employment and regular medical record to be maintained.

(xxi) Emergency plan shall be drawn in consultation with SPCB/CPCB and implemented in order to minimize the hazards to human health or environment from fires, explosion or any unplanned sudden or non sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water.

(xxii) Rain water runoff from the landfill area and other hazardous waste management area shall be collected and treated in the effluent treatment plant.

(xxiii) The Project proponent shall not store the Hazardous Wastes more than the quantity that has been permitted by the CPCB/SPCB.

(xxiv) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and as proposed, a fund of Rs. 0.40 Crore @ 1% of project Cost, shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as sanitation, solid waste management and rain water harvesting etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER

shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

PART B - GENERAL CONDITIONS

(i) A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries Centre and Collector's Office/ Tehsildar's office for 30 days.

(ii) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.

(iii) Officials from the Regional Office of MoEF&CC, Bhopal who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the APCCF, Regional Office of MoEF&CC, Bhopal.

(iv) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.

(v) The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

(vi) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

(vii) These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.

(viii) The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at http://www.envfor.nic.in. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Bhopal.

(ix) Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

(x) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the

Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.

(xi) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; $PM_{2.5}$, PM_{10}, SO_2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

(xii) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

5. This issues with the approval of the Competent Authority.

(Kushal Vashist)
Director

Copy to:

1) The Secretary to Government (Environment and Ecology), Forest, Forests & Environment Department, Government of Gujarat Block 14, 8th Floor, Sachivalaya, Gandhinagar - 382 010, Gujarat.

2) The Addl. Principal Chief Conservator of Forests (Central) Ministry of Environment, Forest and Climate Change, Regional Office (WZ) E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3 Ravishankar Nagar, Bhopal - 462016.

3) The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.

4) The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382010, Gujarat.

5) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.

6) Guard File/ Record File/ Notice Board.

7) MoEF&CC website.

(Kushal Vashist)
Director

આંતરરાષ્ટ્રીય અલ્પસંખ્યક અધિકાર દિનની ઉજવણી

રાજપારડીની શાળામાં પંચકુંડી મહાયજ્ઞ યોજાયો

શુકલતીર્થ ગામમાં સખીમંડળની બહેનોને રોજગારલક્ષી માહિતી અપાઈ

[illegible]

Divya Bhaskar dt. 21.12.2018

જાહેર સૂચના
(પર્યાવરણીય મંજૂરી)

આ સાથે [illegible] મિનિસ્ટ્રી ઓફ એન્વાયરમેન્ટ, ફોરેસ્ટ [illegible] [illegible] પર્યાવરણ ભવન, જોર બાગ રોડ, નવી દિલ્હી-3, [illegible] લિમિટેડ, પ્લોટ નં. [illegible] [illegible] તાલુકા વાગરા, જીલ્લો ભરૂચ (ગુજરાત) ખાતે [illegible] [illegible] F. No. 10-45/2016-IA-III તારીખ [illegible] [illegible] 10-12-2018 ના રોજ [illegible]

[illegible] ગુજરાત [illegible] મિનિસ્ટ્રી ઓફ એન્વાયરમેન્ટ, ફોરેસ્ટ એન્ડ ક્લાઈમેટ ચેન્જની વેબસાઇટ [illegible] ઉપર ઉપલબ્ધ છે.

તારીખ : [illegible]

[illegible]
([illegible])

[illegible]

SANDESH

FRIDAY, 21•12•2018

નર્મદા જિલ્લાની ૬૯૦ પ્રા. શાળાઓમાં શિક્ષણ

શાળાઓનું નિરીક્ષણ કરી દફતરનું વજન નક્કી કર

દફતરનું વજન બાળકના વજનના ૧૦%થી

ચોક્કસ પ્રમાણીત વજનકાંટા

ગુજરાત સરકારના શિક્ષણ વિભાગ દ્વારા નર્મદા જિલ્લા શિક્ષણ

હિન્દુ-મુસ્લિમ એકતાના પ્રતિક કોઠા-પાપડી મેળાની રંગત જામી

ભરૂચ ભીડભંજન મંદિરે માગસરના દર ગુરૂવારે ભરાતા મેળાનું આકર્ષણ

બંન્ને ધર્મના ધર્મસ્થાનો પ્રત્યે શ્રધ્ધાળુઓની અડગ આસ્થા

ભરૂચ શહેરના ભીડભંજન

રજનીકાંત દલસુખભાઈ શાહ | દિપકભાઈ દલસુખભાઈ શાહ

સોમેશભાઈ દલસુખભાઈ શાહ | ગીતાબેન અરવિંદભાઈ શાહ

સ્વ. પ્રદીપકુમાર દિપકાંત ઠાકર

સ્વ. તા.૨૧-૧૨-૨૦૧૬

બીજી પુણ્યતિથિએ હાર્દિક શ્રધ્ધાંજલિ

આંખમાં આંસુ અને દિલમાં તમારી ફરિયાદ છે. આજે તમો નથી એજ અમારી ફરિયાદ છે. હે જગતના પાલનહારી ગતિ ન્યારી છે. વિધિ અકળ છે. પરમ કૃપાળુ પરમાત્મા આપના દિવ્ય આત્માને શાંતિ આપે એજ અમારી પ્રાર્થના.

લી. ઠાકર પરિવાર - અંકલેશ્વર

જાહેર સૂચના
(પર્યાવરણીય મંજૂરી)

F. No. 10-43/2016-IA-III

બી.ડી. વઘાણી

તારીખ: ૨૦/૧૨/૨૦૧૮

જાહેર નોટીસ

અજય બી. ત્રિપાઠી

અરજદાર :-

પ્રતિ, મામલતદાર સાહેબ, રાજપીપળા, જી. નર્મદા.

વિષય :- વાંધા અરજી બાબત.

THE TIMES OF INDIA, AHMEDABAD
FRIDAY, DECEMBER 21, 2018

CBI arrests 10 for ₹9cr Nirav-like scam at PNB

'Had Issued Fake

THE ₹13,000CR FRAUD

Hosp fire: Another dies, toll reaches 10

Mumbai: A 65-year-old man on Thursday succumbed to burns he had received in the Mumbai hospital fire, taking ... management official said.

He said 53 patients were so far discharged.

The fire broke out in the government-run ESIC Kamgar ...

Fire breaks out at 2 hotels, no casualties

Mumbai: Fire incidents were reported in two city-based hotels, including the luxury hotel Trident, late on Wednesday night officials said. No casualties have been reported in the incidents, they said.

A fire broke out at a high-end shopping centre on the ground floor of the Trident Hotel in south Mumbai at 11.04pm, a fire brigade official said Thursday. The blaze was confined to a shop in the shopping centre and it was doused by 1am, he said.

In another incident, a blaze erupted at the Afzal Hotel located near Magazine Circle in south Mumbai. The fire brigade got a call around 11.50pm and the flames were extinguished by 1.15am. Some electric wiring, chimney and items in the hotel's kitchen were damaged in the fire, he said, adding that the cause of the blaze will be ascertained after an inquiry.

The two incidents came days after a fire at the government-run ESIC Kamgar Hospital at Marol in suburban Andheri on Monday in which nine people were killed and nearly 175 others injured.

PUBLIC NOTIC
ENVIRONMENTAL CLEARANCE

It is hereby informed that the Ministry of Environment, Forest and Climate change (IA, III Section), Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 3, has accorded Environmental Clearance for Proposed installation of two incinerators and Enhancement of capacity of Existing landfill Facility at Common TSDF of M/s. Bharuch Enviro Infrastructure Ltd. (BEIL) at Plot no. D-43, Dahej Industrial Estate, Taluka –Vagara, Dist.: Bharuch (Gujarat) vide letter No. F.-No. 10-43/2018-IA-III dated 19/12/2018 under the provision of EIA Notification dated 14th September 2006, which we have received on 20/12/2018 through website.

Copies of Clearance letter are available at office of Gujarat Pollution Control Board and on the website of MoEF&CC (http://www.envfor.nic.in)

Date: 20/12/2018

B.D Dalwadi
(CHIEF EXECUTIVE OFFICER)

Environment Clearance to BEIL-Dahej for installation of Two Incinerator and capacity enhancement of Landfill at Existing CHWTSDF

Sr. No.	Address	Sign
1.	The Sarpanch -Dahej	
1.1.	The sarpanch -vadia.	16/01/19
2.	The Sarpanch -Vav Thakorbhai M. No. 9879386326	19/01/19
3.	The Sarpanch –Vadadla M-No. 9723333532	19/01/19
4.	The Sarpanch -Lakhigam	16/01/19
5.	The Sarpanch -Iolva Payalapi Jagdish. S.	9737457272 17/01/19
6.	~~The Sarpanch~~ -Jageshwar	
7.	The ~~Sarpanch~~ -Rahiad TCM	
8.	Mr. Yogesh P. Pandya Safety Health and Environment Association- Bharuch	17/01/19

9.	Bharuch Nagar palika- Civil Road	Despech Clerk Bharuch Nagarpalika Bharuch. 17-1-19
10.	Notified Area Office, Dahej	DIA 16-1-19
11.	Collector District Collector Office, Bharuch.	20/1/19 આવક કારકુન કલેકટર કચેરી ભરૂચ
12.	Dr. Naresh Ghadhvi- Dahej	19/01/19
13.	The Sarpanch- Suva Ganpatbhai M. NO. 9825021259	સરપંચ ગ્રામ પંચાયત તા. વાગરા, જી. ભરૂચ 19/01/19

14 The Sarpanch - Luvara — સરપંચ ગ્રામ પંચાયત - લુવારા તા. વાગરા, જી. ભરૂચ 16/01/19

15 The Sarpanch - Ambetha

16 The Sarpanch - Atali — 17/01/19

17 The Sarpanch - Bhesli (P. J. Patel) — સરપંચ ગ્રામ પંચાયત 17/01/19

Sr. No.	Address	Sign
18	The Sarpanch - Panyadara (Ranjitbha) M.No. 8128177527	ગ્રામ પંચાયત - પલિયાદરા 18/01/2019
19	The Sarpanch - Padaria (Ajitbhai chandubhai Vasava) M No 9913694250	18/01/2019
20	The Sarpanch – Kadodara (Arvindbhai) Rajjibha Parmar M No 9998821712/8141204301	18/01/2019
	The Sarpanch -	
	The Sarpanch -	
	The Sarpanch –	