ENVIRO TECHNOLOGY LIMITED

O/C

ENVIRO TECHNOLOGY LIMITED

Ref: ETL/ANK/05/2022/152

03rd May, 2022
ID # 15074

To,
The Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan
Sector – 10 / A,
Gandhinagar

Sub: Environmental Statement for the year 2021 – 2022

Dear Sir,

We are forwarding herewith Environmental Statement (Form V) for our Common Effluent Treatment Plant situated at Plot No.2413 / 2414 & 2211 G.I.D.C., Ankleshwar – 393 002, Dist. Bharuch, for the year 2021 – 2022. The treated effluent is being sent to FETP of NCT for further treatment and disposal.

Thanking you.

Yours faithfully,

For, Enviro Technology Ltd

A.M.Darji
General Manager- Operation

CC: The Regional Officer, GPCB, Ankleshwar

RECEIVED
Gujarat Pollution Control Board,
R.O. Ankleshwar.
Date : 4/5/22

CIN NO. : U72200GJ1994PLC023786
Works Office : 2413/2414 & 2211, GIDC Estate, Ankleshwar - 393 002 Dist. : Bharuch (Gujarat)
Phone : (02646) 223569, 252768, 250707
Email : dalwadlbd@beil.co.in, darjiam@beil.co.in
Reg. Office : 9701-16, GIDC Estate, Ankleshwar - 393 002 Dist. : Bharuch (Gujarat)

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		Director – Mr. Ashok Panjwani Unit Head – Mr. A.M.Darji
			Enviro Technology Ltd. 2413 – 2414, & 2211 GIDC Estate Ankleshwar – 393 002
02	Industry Category	Primary – STC Code	
		Secondary–SIC Code	
03	Production capacity	Units	Not applicable, it is a Common Effluent Treatment Plant
04	Year of establishment		1997
05	Date of the last Environmental Statement submitted		27.04.2021

PART - B

Water and Raw material Consumption

01	**Water Consumption**	≈ 62.33 m3 / day	
	Process	38.24 m3 / Day	Water is consumed for Di sodium Hydrogen phosphate & Magnesium chloride solution preparation, Primary & Tertiary Sand Filter & Activated Carbon Filter Backwash, Bioaugmentation and domestic purpose.
	Cooling	7.60 m3 / Day	
	Domestic	16.50 m3 / 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 Common Effluent Treatment Plant. Our design capacity is to treat 2200 m3 / day of Industrial effluent.		
(*)	Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw material used.		

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02 Raw Material Consumption

Sr. No.	Name of Products (*)	Consumption of raw material (in Kgs)	
		During the current financial year 2020 -2021	During the current financial year 2021 -2022
1.	Hy.Lime	461493	431433.5
2.	Hydrogen Peroxide	520	483
3.	Ferrous Sulphate (Solid)	7570	5440
4.	Activated Carbon	275	0
5.	Deforming Agent	1606	1910
6.	Polyelectrolyte (Type - 2)	577.39	4018.57
7.	Phosphoric Acid	91612.7	141610.5
8.	Magnesium Salt	66067	166275
9.	Sodium Salt	5711	46500
10.	Sodium Salt (Anhydrous)	0	0
11.	Sodium Tri-poly Phosphate (STPP)	2586	1847
12.	Poly Aluminum Chloride (PAC)	7925	5840
13.	Deformer (Silicon Base Fin-18)	45220	47620
14.	Acetic Acid (Glacial)	0	0
15.	C.S.Lye (30%)	191623	210458.6

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PART - C

Pollution discharged to environment / unit of output
(Parameters as specified in the Consent issued)

Sr, No.	Pollutants	Quantity of pollutants discharged (mass / day)	Concentrations of pollutants in discharges (mass / volume)	Percentage of variation from prescribed Standards with reasons
a	Water	2135 m3/ day	pH @ 7.51 COD @ 922 mg / l and BOD @ 09 mg / l; Ammonical Nitrogen @ 37 mg / l	Meeting the inlet norms of FETP.
b	Air	All parameters specified in consent for D.G.set stack & ambient air are within limit.		

PART – D

HAZARDOUS WASTE

(as specified under Hazardous Wastes [Management Handling & Trans – boundary Movement] Rules, 2008)

Hazardous Wastes		Total Quantity (Kgs)	
		During the previous financial year-20-21	During the current financial year-21-22
a	From Process	NIL	NIL
b	From pollution control facilities (generation)	5255.075	8519.300
c	Disposed (at BEIL site)	5255.075	8519.300

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PART – E

SOLID WASTE

Hazardous Wastes		Total Quantity in M^3/MT	
		During the current financial year 2020-2021	During the current financial year 2021-2022
a	From Process	NIL	NIL
b	From pollution control facilities (generation)	NIL	NIL

PART – F

Please specify the characteristics (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practices adopted for both these categories of wastes.

The major source of solid waste generation in the CETP is from primary treatment & MAP treatment of effluent from the member industries. The sludge generated is dewatered with the help of super decanter.

ETP sludge is disposed to the Centralized Secured Landfill Facility at BEIL-Ankleshwar.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- CETP was started to sort out the environmental problems faced by industries especially small-scale industries in this region. With commissioning and operation of the CETP, the waste disposal problem of member industries has been solved.

- As suggested by NEERI, we are adding Sewage to secondary treatment which helps better reduction of organics.

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- The treated effluent is sent to FETP of NCT for further treatment and disposal up to deep sea through closed pipeline system. ETL is making payment of approximately Rs.90 Lacs per month to NCT for further treatment and disposal of the treated effluent.

- Under the guidance of IIT Mumbai & Kanpur improved the performance of the CETP including bio-augmentation by implementing new ASP + MLE system.

- With the segregation and treatment of effluent for removal of Ammonical Nitrogen with physico chemical treatment, the Ammonical Nitrogen at the CETP outlet is maintained 25 to 30 mg/l consistently.

- Implementing new ASP + MLE system in Biological process.
- 8.1 % reduction in sludge generation compared to previous year by process modification & optimization.

PART – H

Addition measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- The sludge generated will be disposed off at the secured landfill of BEIL and Monthly expenditure will be approx. Rs. 20 Lacs.

- Engaged IIT (Kanpur + Mumbai) for further studies to reduce refractory COD & Improve CETP performance. Approximately Rs 55 Lacs is spent for the studies

- We have Installed TOC/TN Meter at a cost of Rs 35 Lacs in November- 2012 & Connected to GPCB XGN.

- ETL has sponsored a project on "Electro Chemical Oxidation "studies with Engg. College, SRICT. Annual expenditure Rs. 6 lacks.

- We are displaying COD/BOD/pH/TSS & Flow on vendor's server by which real time monitoring by GPCB/CPCB.

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PART – I

Any other particulars for improving the quality of the environment.

1 Display of information with respect to operation, at the front of the Company, for the public
2 Students / Community are permitted to visit the CETP. Required guidance are given to the students who are doing Environmental Courses
3 Tree plantation is taken up as an important activity.
4 ETL has integrated system for ISO 14001:2015 & ISO 45001:2018.
5 ETL Laboratory has got NABL accreditation as per ISO 17025:2005.
6 Microbiological laboratory is set up and is in operation
7 Treatability studies are conducted, and it is an on-going activity
8 8.1 % reduction in sludge generation compared to previous year by process modification & optimization.
9 75 % Water reduction compared to previous year.
10 GPS System installed on tankers and helps in tracking
11 Manifest system started for transporting effluent from member industry to ETL
12 Studies are conducted through IIT Kanpur / Mumbai for improving the performance
13 Electrochemical oxidation studies are carried out through SRICT Ankleshwar

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For, Enviro Technology Limited

A. M. Darji
Unit Head

Enviro Technology Ltd. Ankleshwar

Date: 03.05.2022
Place :- Ankleshwar

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APRIL 2021 TO MARCH 2022

EFFLUENT RECEIPT DATA

Month	Total No. of Tankers Received	Average COD ppm	Average Acidity ppm	Average NH4-N ppm
April 2021	3837	4225	1056	104
May 2021	3787	4072	837	114
June 2021	4233	3720	866	118
July 2021	4411	3735	971	100
August 2021	3547	3375	838	83
September 2021	4209	3894	867	107
October 2021	4593	4112	960	119
November 2021	3462	4180	1150	111
December 2021	4104	3513	837	100
January 2022	4367	4069	916	120
February 2022	3812	4262	1087	126
March 2022	4363	4135	1023	111

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APRIL 2021 TO MARCH 2022

HAZARDOUS WASTE DETAILS (CETP SLUDGE) ALL QTY. IN KGS

Month	Opening Balance	Generation	Dispatched to BEIL for Landfilling	Closing Balance
Apr.'21	00	4232810	4232810	00
May.'21	00	280310	280310	00
Jun.'21	00	259890	259890	00
Jul.'21	00	307150	307150	00
Aug.'21	00	192590	192590	00
Sep.'21	00	277620	277620	00
Oct.'21	00	396290	396290	00
Nov.'21	00	367060	367060	00
Dec.'21	00	440550	440550	00
Jan.'22	00	582660	582660	00
Feb' 22	00	536290	536290	00
Mar' 22	00	646080	646080	00
Total		**8519300**	**8519300**	

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Date of Sampling: 03rd January 2022

Sr. No.	Parameters	Unit	Result	Method Ref.
ETP SLUDGE ANALYSIS				
1	$CaSO_4$	%	7.69	IS-4256
2	$CaCO_3$	%	79.39	IS 2720 : Part 23
3	LOD at 105 °C	%	52.19	APHA 2540 B
4	Total Inorganic Solids	%	97.12	APHA 2540-G
ETP SLUDGE 10 % LEACHATE ANALYSIS				
5	Total Acidity	mg/L	NIL	APHA 2310-B
6	Total Alkalinity	mg/L	769	APHA 2320-B
7	COD	mg/L	726	APHA 5220-B
8	Oil % Oil emulsion	mg/L	2.94	APHA 5520 - B
9	Cyanide	mg/L	BDL	APHA 4500-CN -G
10	Fluoride	mg/L	0.74	APHA 4500-F -D
11	Phenolic Compound	mg/L	BDL	APHA 5530 - D
12	Iron	mg/L	1.7428	APHA 3111-Fe- B
13	Total Chromium	mg/L	0.4211	APHA 3111-Cr-B
14	Manganese	mg/L	0.1806	APHA 3111-Mn- B
15	Zinc	mg/L	0.1942	APHA 3111-Zn- B
16	Copper	mg/L	0.0463	APHA 3111-Cu-B
17	Lead	mg/L	0.1436	APHA 3111-Pb-B
18	Nickel	mg/L	0.3891	APHA 3111-Ni- B

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SOIL ANALYSIS REPORT

Sr.No.	Parameters	Results of sampling Done on 21.08.21	Results of sampling Done on 15.02.22
1	pH	7.61	7.67
2	TDS	298 ppm	483 ppm
3	Chloride	58 ppm	90 ppm
4	COD	14 ppm	22 ppm
5	BOD	BDL	BDL
BDL = Below Detectable Limit			

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APRIL 20201 TO MARCH 2022

AMBIENT AIR MONITORING DATA					
Sr.No.	Month	PM10	PM2.5	SO2	NOX
		µg / Nm^3			
1	April 2021	88.11	44.89	27.47	41.38
2	May 2021	67.27	28.61	15.42	22.63
3	June 2021	63.64	26.85	11.92	28.70
4	July 2021	57.94	22.01	10.86	23.88
5	August 2021	64.83	27.45	13.03	27.07
6	September 2021	71.82	33.16	14.34	33.51
7	October 2021	75.79	34.69	16.29	36.05
8	November 2021	72.38	28.71	13.69	30.03
9	December 2021	72.64	26.39	18.31	32.04
10	January 2022	77.10	27.65	20.96	34.51
11	February 2022	78.70	26.85	21.98	37.74
12	March 2022	80.21	28.12	26.43	39.66

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APRIL 2021 TO MARCH 2022

D.G STACK MONITORING

Sr.No.	MONTH	SPM miligram/NM3	SO2 ppm	NOx ppm
1	April 2021	34.20	12.60	22.40
2	May 2021	27.45	11.29	23.84
3	June 2021	29.12	12.04	25.26
4	July 2021	28.90	11.90	23.60
5	August 2021	32.15	12.04	24.62
6	September 2021	34.78	13.56	26.34
7	October 2021	32.56	14.31	27.19
8	November 2021	29.48	12.39	26.81
9	December 2021	30.19	11.56	24.04
10	January 2022	37.59	8.07	14.21
11	February 2022	35.31	9.12	16.17
12	March 2022	32.17	10.08	18.24

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