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ENVIRO TECHNOLOGY LIMITED

Ref: ETL/ANK/06/2023/277
GPCB ID: 15074

Date: 28th June, 2023

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

Sub: Environmental Statement for the year 2022-23

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 2022-2023. 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
(Unit Head)

30/06/23
Gujarat Pollution Control Board
Head Office
Sector No.-10-A,
Gandhinagar-382010

CC: The Regional Officer, GPCB, Ankleshwar

RECEIVED
G. P. C. Board
R. O. Ankleshwar
Date. 28/6/2023

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

ENVIRONMENTAL STATEMENT

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		4th May,2022

PART - B

Water and Raw material Consumption

01	**Water Consumption**	≈ 74.13 m3 / day	
	Process	38.70 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	15.30 m3 / Day	
	Domestic	20.12 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 must name the raw material used.		

Enviro Technology Ltd. Ankleshwar

02: Raw Material Consumption

Sr. No.	Name of Products (*)	Consumption of raw material (In Kgs)	
		During the current financial year 2021 -2022	During the current financial year 2022 -2023
1.	Hy. Lime	431433.5	542619.6
2.	Hydrogen Peroxide	483	667
3.	Ferrous Sulphate (Solid)	5440	2370
4.	Deforming Agent	1910	2440
5.	Polyelectrolyte (Type - 2)	4018.57	3220.5
6.	Phosphoric Acid	141610.5	28775.28
7.	Magnesium Salt	166275	45626
8.	Sodium Salt	46500	13300
9.	Sodium Tri-poly Phosphate (STPP)	1847	2080
10.	Poly Aluminum Chloride (PAC)	5840	4045
11.	Deformer (Silicon Base Fin-18)	47620	39450
12.	C.S. Lye (30%)	210458.6	53512.78

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	COD	2102 Kg/ day	886 mg/l	-11.4%
		BOD	47.62 Kg/day	20 mg/l	-90%
		Ammonical Nitrogen	159.5 Kg/day	47 mg/l	-6%
b	Air	All parameters specified in consent for D.G.set stack & ambient air are within limit.			

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PART – D
HAZARDOUS WASTE

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

Hazardous Wastes		Total Quantity	
		During the previous financial year-21-22	During the current financial year-22-23
Category	Hazardous waste		
A) From Process			
35.3	Chemical Sludge from wastewater treatment	**8519.300 MT**	**4578.945 MT**
33.1	Discarded Containers	**503 Nos.**	**270 Nos.**
5.1	Used Oil	**1645 Liters**	**197 Liters**
B) From Pollution Control Facilities			
Nil			

PART – E
SOLID WASTE

Hazardous Wastes		Total Quantity in M^3/MT	
		During the current financial year 2021-2022	During the current financial year 2022-2023
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 a super decanter.
- ETP sludge is disposed to the Centralized Secured Landfill Facility at BEIL-Ankleshwar.

Enviro Technology Ltd. Ankleshwar

PART – G

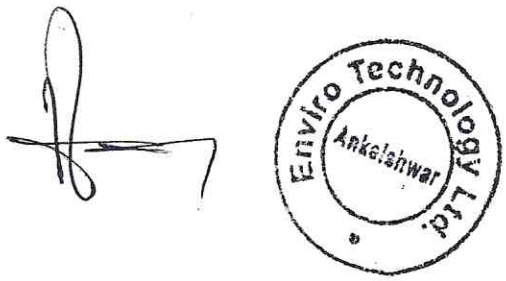
➢ Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- 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.
- 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.66 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 45 mg/l consistently.
- Implemented ASP + MLE system in biological process.

PART – H

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

- The sludge generated will be disposed of at the secured landfill of BEIL and Monthly expenditure will be approx. Rs. 11 Lacs.
- Engaged IIT (Kanpur + Mumbai) for further studies to reduce refractory COD & Improve CETP performance. Approximately Rs 35 Lacs is spent on 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.



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 GPS System installed on tankers and helps in tracking.
10 Manifest system for transporting effluent from member industry to ETL.
11 Studies are conducted through IIT Kanpur / Mumbai for improving performance.
12 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: 28.06.2023
Place :- Ankleshwar

ENVIRO TECHNOLOGY LTD., ANKLESHWAR

EFFLUENT RECEIPT DATA APRIL-2022 TO MARCH-2023

Month	Total No. of Tankers Received	Average COD ppm	Average Acidity ppm	Average NH4-N ppm
April 2022	4314	4006	990	109
May 2022	4457	3921	1004	106
June 2022	4482	3913	1195	138
July 2022	4749	3713	815	94
August 2022	4600	3760	918	95
September 2022	4577	3714	921	93
October 2022	4005	3848	979	90
November 2022	4013	4194	1026	98
December 2022	4317	4079	766	86
January 2023	4125	4319	903	87
February 2023	4120	4250	964	76
March 2023	4273	4067	944	77

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

Month	Opening Balance	Generation	Dispatched to BEIL for Landfilling	Closing Balance
April 2022	00	474260	474260	00
May 2022	00	372290	372290	00
June 2022	00	337470	337470	00
July 2022	00	333270	333270	00
August 2022	00	289080	289080	00
September 2022	00	289410	289410	00
October 2022	00	333660	333660	00
November 2022	00	732045	732045	00
December 2022	00	476120	476120	00
January 2023	00	382030	382030	00
February 2023	00	288780	288780	00
March 2023	00	270530	270530	00
Total		**4578945**	**4578945**	

Enviro Technology Ltd. Ankleshwar

Date of Sampling: 05th January 2023

Sr. No.	Parameters	Unit	Result	Method Ref.
ETP SLUDGE ANALYSIS				
1	$CaSO_4$	%	5.19	IS-4256
2	$CaCO_3$	%	72.53	IS 2720: Part 23
3	LOD at 105 °C	%	48.61	APHA 2540 B
4	Total Inorganic Solids	%	97.04	APHA 2540-G
ETP SLUDGE 10 % LEACHATE ANALYSIS				
5	Total Acidity	mg/L	NIL	APHA 2310-B
6	Total Alkalinity	mg/L	749	APHA 2320-B
7	COD	mg/L	598	APHA 5220-B
8	Oil % Oil emulsion	mg/L	2.84	APHA 5520 - B
9	Cyanide	mg/L	BDL	APHA 4500-CN -G
10	Fluoride	mg/L	0.819	APHA 4500-F -D
11	Phenolic Compound	mg/L	BDL	APHA 5530 - D
12	Iron	mg/L	1.7384	APHA 3111-Fe- B
13	Total Chromium	mg/L	0.3519	APHA 3111-Cr-B
14	Manganese	mg/L	0.1686	APHA 3111-Mn- B
15	Zinc	mg/L	0.1924	APHA 3111-Zn- B
16	Copper	mg/L	0.0428	APHA 3111-Cu-B
17	Lead	mg/L	0.1439	APHA 3111-Pb-B
18	Nickel	mg/L	0.3978	APHA 3111-Ni- B

SOIL ANALYSIS REPORT

Sr.No.	Parameters	Results of sampling Done on 21.08.21	Results of sampling Done on 15.02.22
1	pH	7.69	7.58
2	TDS	341 ppm	497 ppm
3	Chloride	62 ppm	106 ppm
4	COD	12 ppm	26 ppm
5	BOD	BDL	BDL
BDL = Below Detectable Limit			

Enviro Technology Ltd. Ankleshwar

AMBIENT AIR MONITORING DATA APRIL 2022 TO MARCH 2023

Sr.No.	Month	PM10	PM2.5	SO2	NOx
		µg / Nm³			
1	April 2022	78.68	27.15	24.16	40.01
2	May 2022	77.42	24.85	20.70	34.69
3	June 2022	67.09	21.51	20.32	32.15
4	July 2022	55.02	18.53	18.73	26.97
5	August 2022	56.81	19.33	20.62	31.56
6	September 2022	64.15	23.15	22.63	31.31
7	October 2022	61.58	21.98	22.35	30.54
8	November 2022	64.29	23.21	23.26	33.02
9	December 2022	65.66	24.98	25.75	35.68
10	January 2023	67.52	25.90	26.41	37.09
11	February 2023	71.37	26.06	26.82	36.04
12	March 2023	71.24	25.66	25.86	35.41

D.G STACK MONITORING APRIL 2022 TO MARCH 2023

Sr.No.	Month	SPM miligram/NM3	SO2 ppm	NOx ppm
1	April 2022	31.84	9.57	19.32
2	May 2022	30.15	10.08	18.46
3	June 2022	28.42	8.09	16.87
4	July 2022	26.80	7.96	15.20
5	August 2022	37.59	8.07	14.21
6	September 2022	27.21	10.45	19.66
7	October 2022	25.63	11.85	20.43
8	November 2022	28.63	12.07	21.81
9	December 2022	24.56	10.94	19.43
10	January 2023	26.74	11.63	18.47
11	February 2023	28.52	12.45	19.17
12	March 2023	26.59	11.53	17.41