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ENVIRO TECHNOLOGY LIMITED

Ref: ETL/ANK/JUNE/2024/253
GPCB ID: 15074

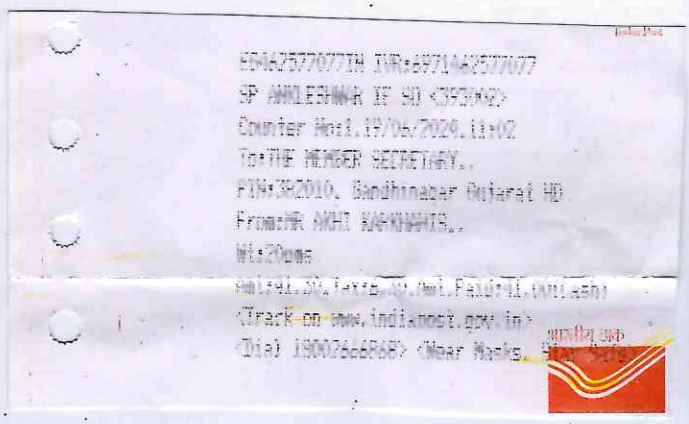
Date: 15th June 2024

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

Sub: Environmental Statement for the year 2023-24

Dear Sir,

We are forwarding herewith an 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 2023-2024. The treated effluent is being sent to FETP of NCT for further treatment and disposal.



Thanking you.

Yours faithfully,

For, Enviro Technology Ltd

A. P. Karkhanis
(Unit Head)

CC: The Regional Officer, GPCB, Ankleshwar

RECEIVED
G. P. C. Board
R. O. Ankleshwar
Date 24/06/2024

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
Reg. 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. P. Karkhanis
			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		30th Jane, 2023

PART - B

Water and Raw material Consumption

01	**Water Consumption**	≈ 66.30 m3 / day	
	Process	28.99 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	17.32 m3 / Day	
	Domestic	19.99 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.		

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02: Raw Material Consumption

Sr. No.	Name of Products (*)	Consumption of raw material (In Kgs)	
		During the current financial year 2022 -2023	During the current financial year 2023 -2024
1.	Hy. Lime	542619.60	544093.90
2.	Hydrogen Peroxide	667	200
3.	Ferrous Sulphate (Solid)	2370	0
4.	Deforming Agent	2440	2039
5.	Polyelectrolyte (Type - 2)	3220.5	108
6.	Phosphoric Acid	28775.28	7025
7.	Magnesium Salt	45626	9837
8.	Sodium Salt	13300	5334.82
9.	Sodium Tri-poly Phosphate (STPP)	2080	1612
10.	Poly Aluminum Chloride (PAC)	4045	4400
11.	Deformer (Silicon Base Fin-18)	39450	54760
12.	C.S. Lye (30%)	53512.78	449315.40

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	2068.10 Kg/ day	868 mg/l	-13.2%
		BOD	17.34 Kg/day	7 mg/l	-96.5%
		Ammonical Nitrogen	106.00 Kg/day	45 mg/l	-10%
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	
Category	Hazardous waste	During the previous financial year-22-23	During the current financial year-23-24
A) From Process			
35.3	Chemical Sludge from wastewater treatment	**4578.945 MT**	**3592.600 MT**
33.1	Discarded Containers	**270 Nos.**	**0 Nos.**
5.1	Used Oil	**197 Liters**	**187 Liters**
B) From Pollution Control Facilities			
Nil			

PART – E
SOLID WASTE

Hazardous Wastes		Total Quantity in M^3/MT	
		During the current financial year 2022-2023	During the current financial year 2023-2024
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.

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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.55.75 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. 10.30 Lacs.
- Engaged IIT (Kanpur + Mumbai) for further studies to reduce refractory COD & Improve CETP performance. Approximately Rs 64.6 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.

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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 21.5 % 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.P.Karkhanis
Unit Head

Enviro Technology Ltd. Ankleshwar

Date: 15.06.2024
Place :- Ankleshwar

ENVIRO TECHNOLOGY LTD., ANKLESHWAR

EFFLUENT RECEIPT DATA APRIL-2023 TO MARCH-2024

Month	Total No. of Tankers received	Average COD ppm	Average NH4-N ppm
April 2023	4196	4035	86
May 2023	4246	4039	82
June 2023	4296	3798	68
July 2023	4816	3261	91
August 2023	4836	3480	80
September 2023	4757	3498	71
October 2023	5129	3592	64
November 2023	4054	3814	70
December 2023	4789	3892	59
January 2024	4302	4276	67
February 2024	5086	4154	69
March 2024	5122	4304	67

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

Month	Opening Balance	Generation	Dispatched to BEIL for Landfilling	Closing Balance
April 2023	00	204550	204550	00
May 2023	00	224320	224320	00
June 2023	00	272200	272200	00
July 2023	00	247230	247230	00
August 2023	00	299440	299440	00
September 2023	00	295270	295270	00
October 2023	00	355650	355650	00
November 2023	00	245660	245660	00
December 2023	00	421010	421010	00
January 2024	00	357690	357690	00
February 2024	00	344110	344110	00
March 2024	00	325470	325470	00
Total		3592600	3592600	

SLUDGE ANALYSIS REPORT

Sr. No.	Parameters	Unit	Result	Method Ref.
ETP SLUDGE ANALYSIS				
1	$CaSO_4$	%	6.05	IS-4256
2	$CaCO_3$	%	73.29	IS 2720: Part 23
3	LOD at 105 °C	%	51.03	APHA 2540 B
4	Total Inorganic Solids	%	96.81	APHA 2540-G
ETP SLUDGE 10 % LEACHATE ANALYSIS				
5	Total Acidity	mg/L	NIL	APHA 2310-B
6	Total Alkalinity	mg/L	783	APHA 2320-B
7	COD	mg/L	604	APHA 5220-B
8	Oil % Oil emulsion	mg/L	2.68	APHA 5520 - B
9	Cyanide	mg/L	BDL	APHA 4500-CN -G
10	Fluoride	mg/L	0.784	APHA 4500-F -D
11	Phenolic Compound	mg/L	BDL	APHA 5530 - D
12	Iron	mg/L	1.8635	APHA 3111-Fe- B
13	Total Chromium	mg/L	0.4212	APHA 3111-Cr-B
14	Manganese	mg/L	0.1847	APHA 3111-Mn- B
15	Zinc	mg/L	0.2017	APHA 3111-Zn- B
16	**Copper**	mg/L	0.0852	APHA 3111-Cu-B
17	**Lead**	mg/L	0.3647	APHA 3111-Pb-B
18	**Nickel**	mg/L	0.4086	APHA 3111-Ni- B

SOIL ANALYSIS REPORT

Sr.No.	Parameters	Results of sampling Done on 26.08.23	Results of sampling Done on 02.03.24
1	pH	7.72	7.61
2	Conductivity (mS/m)	648	672
3	Organic Matter (%)	1.52	1.39
4	Phosphorous (P)	372	402
5	Copper (Cu)	0.42	0.39
6	Nickel (N)	0.51	0.58
7	Manganese (Mn)	7.20	6.92
8	Zinc (Zn)	0.72	0.62
BDL = Below Detectable Limit			

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AMBIENT AIR MONITORING DATA APRIL 2023 TO MARCH 2024

Sr.No.	Month	PM10	PM2.5	SO2	NOx
		µg / Nm^3			
1	April 2023	68.83	24.89	26.01	35.82
2	May 2023	68.16	24.92	26.21	37.15
3	June 2023	64.71	23.47	24.44	35.11
4	July 2023	54.89	19.09	19.88	29.40
5	August 2023	58.94	21.21	21.49	32.89
6	September 2023	55.01	20.64	20.95	30.75
7	October 2023	59.17	22.81	22.96	35.70
8	November 2023	60.48	23.35	22.75	35.80
9	December 2023	60.39	23.08	22.17	34.79
10	January 2024	60.86	22.86	21.72	35.47
11	February 2024	60.65	22.70	21.73	35.35
12	March 2024	63.03	22.37	21.58	35.45

D.G STACK MONITORING APRIL 2023 TO MARCH 2024

Sr.No.	Month	SPM miligram/NM3	SO2 ppm	NOx ppm
1	April 2023	28.41	12.08	15.97
2	May 2023	29.87	11.27	13.84
3	June 2023	27.52	10.46	12.39
4	July 2023	29.54	12.07	14.66
5	August 2023	26.43	10.72	13.63
6	September 2023	23.82	11.62	15.20
7	October 2023	29.35	10.57	17.62
8	November 2023	30.72	12.41	19.63
9	December 2023	31.42	13.20	20.12
10	January 2024	28.14	12.06	19.53
11	February 2024	32.07	13.51	18.94
12	March 2024	34.17	14.32	20.46