



VAIDHATRU PHARMA PVT. LTD.

Survey No. 106, Plot No. 28, Chicksugur, Raichur Growth Center, Industrial Area,
Raichur, Karnataka - 584 134, INDIA, Ph: +91-8532286067, E-mail: info@vaidhatru.com

VPPL/KSPCB-14/2023-2024

Date: 28th June, 2023.

To

The Regional Officer,
Karnataka State Pollution Control Board,
Near 3rd Cross,
KSSIDC Industrial Estate, Hyderabad Road,
Raichur- 584 102

Sub: M/s Vaidhatru Pharma Private Limited - Submission of Environmental Statement
in Form-V - For the Year 2021-2022 - Reg.

Dear Sir/Madam,

With reference to above subject, we hereby submitting the Environmental statement in
Form-V for the Year 2021-22.

This is for your information and kindly acknowledge the receipt of the same for our office
records.

Yours faithfully

For Vaidhatru Pharma Pvt. Ltd

Authorized Signatory

Reddy



Encl: Environmental Statement FY 2021-2022.

ENVIRONMENTAL STATEMENT

(FORM - V)

FOR THE YEAR 2021- 2022



**VAIDHATRU PHARMA PRIVATE LIMITED
SURVEY NO. 106, PLOT NO. 28
RAICHUR GROWTH CENTRE, INDUSTRIAL AREA
CHICKSUGUR, RAICHUR - 584134**

**ENVIRONMENTAL STATEMENT IN FORM V****FORM-V**

(See rule 14)

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING WITH
31ST MARCH, 2022****PART-A**

i. Name and address of the owner: occupier of the industry	Vaidhatru Pharma Private Limited Plot No 28, Survey No 106, Industrial Area, Raichur Growth Centre, Chicksugur, Raichur - 584134, Karnataka
Operation or Process.	Manufacturing of Bulk Drugs and Chemicals
ii. Industry category Primary-(STC Code) Secondary- (STC Code)	Large Scale - Red Category
iii. Production category - Units.	Manufacturing of Bulk Drugs and Chemicals 126 MTPA

Sl. No.	Name of the Product	Production Capacity (TPM)	Consented Total (Tons / Annum)	Manufactured Total (Tons / Annum)
1.	Clopidogrel Bisulphate	0.5	6.00	4.00
2.	Efavirenz	1.0	12.00	1.00
3.	Enalapril maleate	0.5	6.00	--
4.	Fexofenadine	0.5	6.00	--
5.	Levocetirizine. HCl	2.0	24.00	11.00
6.	Moxifloxacin	0.5	6.00	--
7.	Pantoprazole Sodium	2.0	12.00	--
8.	Rabeprazole Sodium	1.0	24.00	--
9.	Sparfloxacin	1.0	12.00	--
10.	Telmisartan	0.5	6.00	--
11.	Terbinafine	0.5	6.00	--
12.	Tramadol HCl	0.5	6.00	--
	Total	10.5	126.00	16.00

iv. Year of establishment	July, 2013
v. Date of the last environmental statement submitted.	NA





ENVIRONMENTAL STATEMENT IN FORM V

PART -B

Water and Raw Material Consumption

i. Water consumption in m³/d

Process: 01.71 KLD

Cooling: 08.50 KLD

Boiler: 05.60 KLD

Domestic: 03.00 KLD

Name of Products	Process water consumption per unit of products	
	During the previous financial year	During the current financial year
1. Clopidogrel Bisulphate	35.00	35.00
2. Efavirenz	13.00	13.00
3. Levocetirizine	35.65	35.65

ii. Raw material consumption:

a. Clopidogrel Bi-sulphate:

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
Glycine Methyl Ester	Clopidogrel Bisulphate	1.75	1.75
Methylene Dichloride		6.00	6.00
Sodium Carbonate		2.80	2.80
Tosylate		1.80	1.80
Acetonitrile		1.00	1.00
Toluene		13.70	13.70
Isopropyl Alcohol		2.00	2.00
IPA.HCl (24%)		1.70	1.70
Methanol		0.50	0.50
Paraformaldehyde		0.43	0.43





VAIDHATRU PHARMA

ENVIRONMENTAL STATEMENT IN FORM V

Liquid Ammonia Solution	Clopidogrel Bisulphate	0.38	0.38
n-Hexane		5.00	5.00
Activated Carbon		0.14	0.14
Sodium Sulfate		0.26	0.26
Sodium Carbonate		0.38	0.38
Methyl Ethyl Ketone		7.25	7.25
Conc. Sulphuric Acid		0.28	0.28
Acetone		2.90	2.90
Methanol		0.28	0.28

b. Efavirenz:

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
(S)-5-Chloro-a-(Cyclopropylethynyl)-2-(4'-methoxy benzylamino) (Trifluoromethyl)benzene methanol	Efavirenz	1.31	1.31
Toluene		6.50	6.50
DDQ		0.73	0.73
Sodium Bicarbonate		0.05	0.05
Methanol		0.98	0.98
Toluene		1.90	1.90
Sodium Borohydride		0.12	0.12
Acetic Acid		0.38	0.38
Sodium Hydroxide		0.13	0.13
Methanol		0.95	0.95
n-Hexane		2.50	2.50
Acetone		2.00	2.00
Triphosgene		0.94	0.94
Ethyl Acetate		2.00	2.00
n-Hexane		1.00	1.00





ENVIRONMENTAL STATEMENT IN FORM V

c. Levocetirizine:

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
p-Chloro Benzo Phenone	Levocetirizine	1.20	1.20
Ammonium formate		0.35	0.35
Hydrochloric Acid		0.20	0.20
Toluene		8.00	8.00
Activated Carbon		0.10	0.10
Sodium Hydroxide		0.22	0.22
Tartaric Acid		0.32	0.32
Methylene Dichloride		7.00	7.00
Para toluene sulphonyl chloride		0.52	0.52
N,n-bis(2-chloro ethyl) amine HCl		0.50	0.50
Sodium Hydroxide		0.22	0.22
Methylene Dichloride		0.70	0.70
Ethyl Di Isopropyl Amine		0.28	0.28
Methanol		4.00	4.00
Hydro Bromic Acid		0.21	0.21
Acetic Acid		0.15	0.15
Toluene		4.00	4.00
Chloro Ethanol		0.20	0.20
Tri Ethyl Amine		0.25	0.25
Toluene		4.00	4.00
Sodium Mono Chloro Acetate		0.27	0.27
Hydro Chloric Acid		0.17	0.17
Dimethyl Formamide		1.00	1.00
Methylene Dichloride		2.50	2.50
Activated Carbon		0.10	0.10
Acetone		1.00	1.00





ENVIRONMENTAL STATEMENT IN FORM V

PART-C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed Standards with reasons.
(a) Water			
COD	0.22 KG/Day	138.00 mg/l	Nil
BOD	0.08 KG/Day	48.59 mg/l	Nil
TSS	0.04 KG/Day	27.83 mg/l	Nil

ETP Treated Water Analysis Report for the year from April - 2021 to March - 2022

Parameter	pH	COD (mg/l)	BOD (mg/l)	TDS (mg/l)	TSS (mg/l)
KSPCB LIMITS	5.5 - 8.5	250	100	2100	100
Apr - 22	7.06	130.00	40.00	1840.00	32.00
May - 22	7.15	180.00	60.00	1680.00	28.00
Jun - 22	7.45	135.00	35.00	1982.00	28.00
Jul - 22	7.44	140.00	60.00	1846.00	30.00
Aug -22	7.55	190.00	65.00	1932.00	30.00
Sept - 22	7.44	220.00	74.00	1644.00	38.00
Oct - 22	7.56	160.00	60.00	1924.00	28.00
Nov - 22	7.32	172.00	60.00	1962.00	28.00
Dec - 22	8.12	120.00	45.00	1862.00	26.00
Jan - 23	6.92	64.00	26.00	2032.00	20.00
Feb - 23	6.98	72.00	28.00	2034.00	22.00
Mar - 23	7.02	74.00	30.00	2038.00	24.00
Average	7.33	138.08	48.58	1898.00	27.83

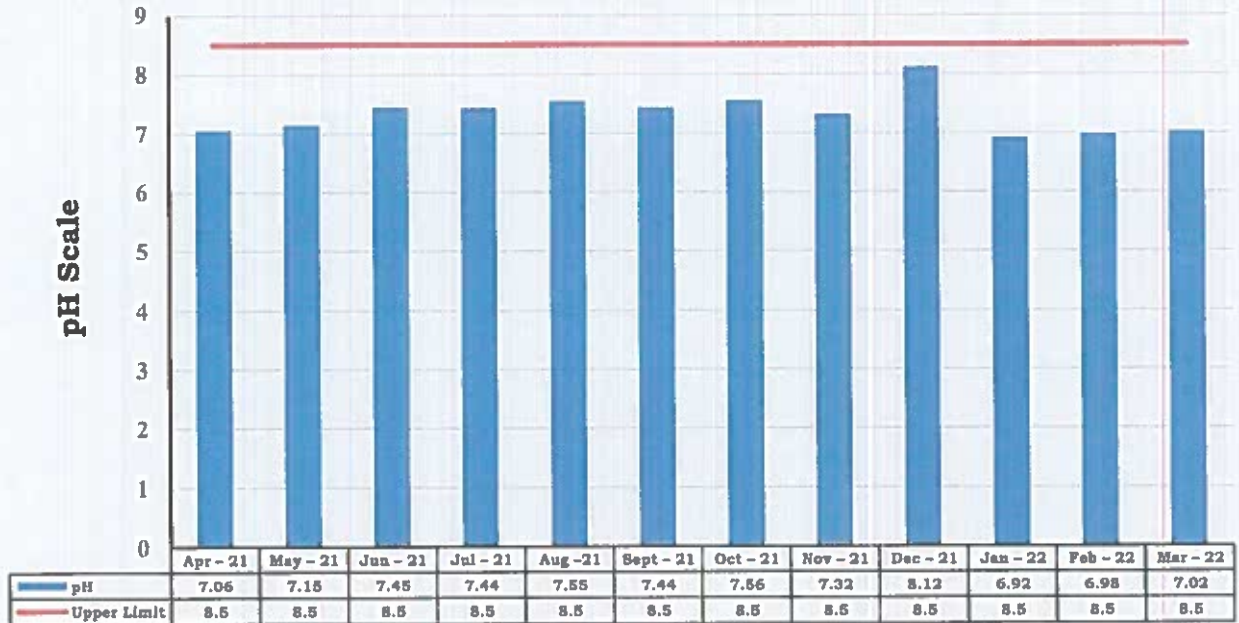




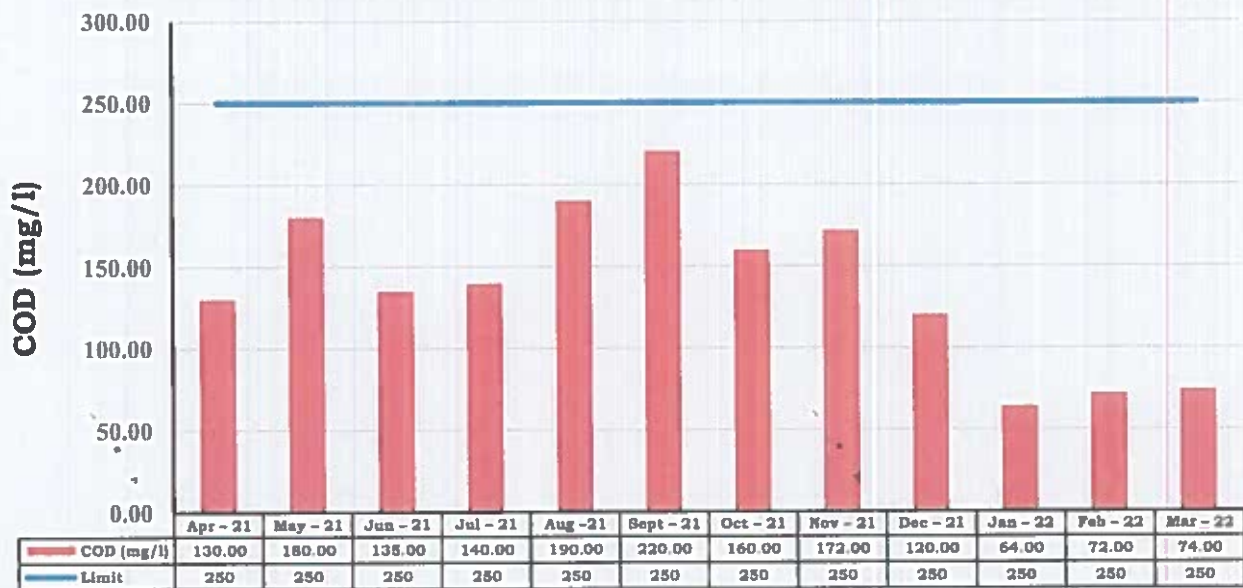
ENVIRONMENTAL STATEMENT IN FORM V

TRENDS OF VARIOUS PARAMETERS IN ETP TREATED WATER

Trends of pH of Treated Water during April - 2021 to March - 2022



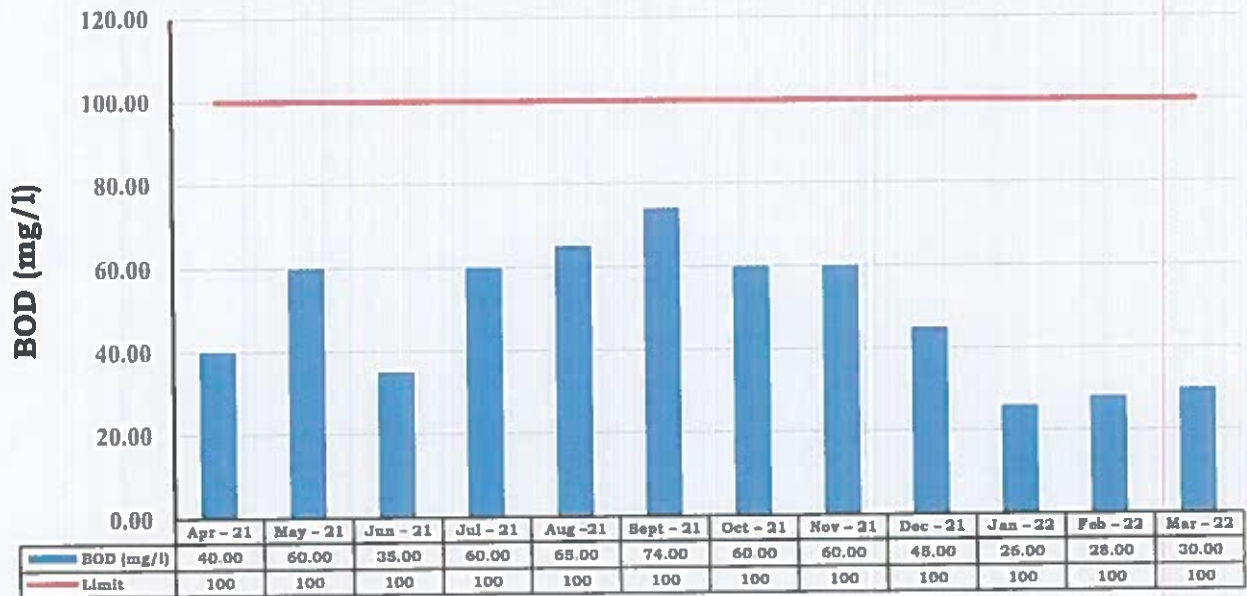
Trends of COD of Treated Water during April - 2021 to March - 2022





ENVIRONMENTAL STATEMENT IN FORM V

Trends of BOD of Treated Water during April - 2021 to March - 2022



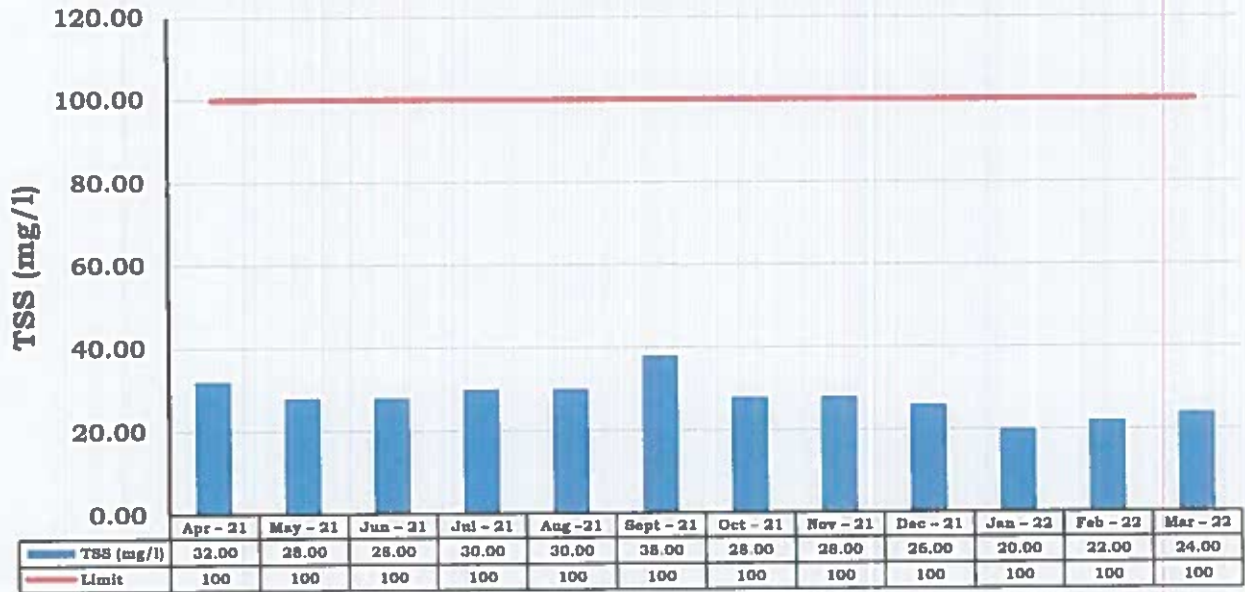
Trends of TDS of Treated Water durina April - 2021 to March - 2022



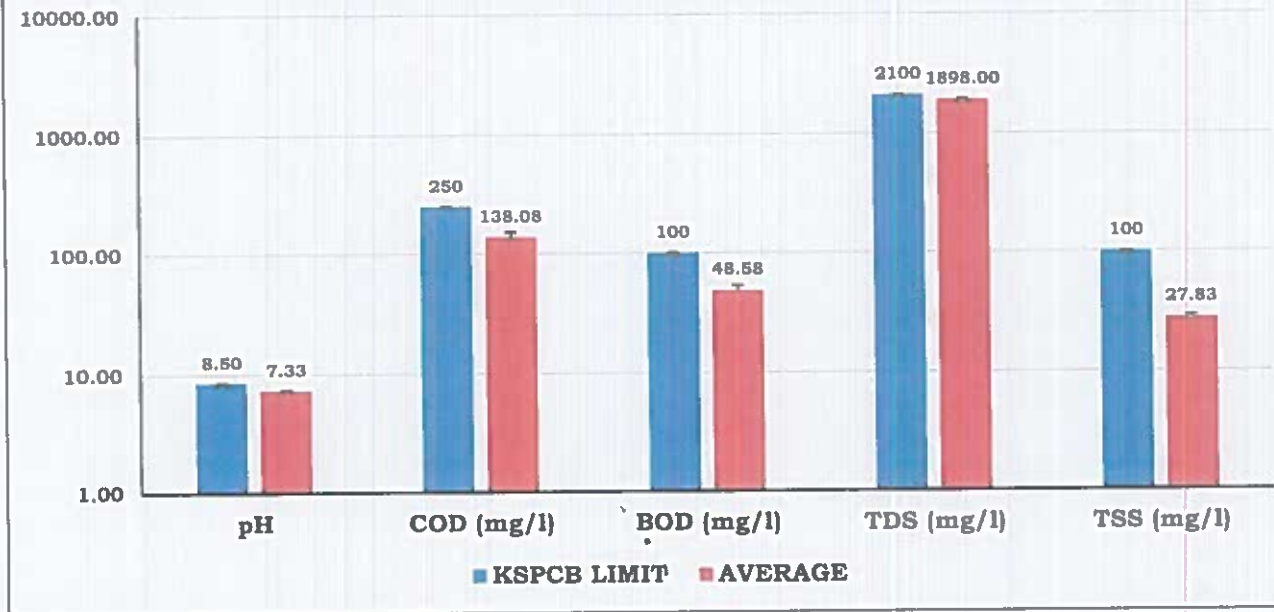


ENVIRONMENTAL STATEMENT IN FORM V

Trends of TSS of Treated Water during April - 2021 to March - 2022



Average of Various Parameters of Treated Water During April - 2021 - 2022



Conclusion: The mean values obtained for various parameters in ETP Treated Water during the reporting period is within the limits prescribed by KSPCB.





VAIDHATRU PHARMA

ENVIRONMENTAL STATEMENT IN FORM V

(b) Air

(b.1) Ambient Air Quality Monitoring:

Ambient Air Quality Analysis – Near Main Gate Area				
Parameters	Pollution	KSPCB Limits	Quantity of Pollutants Discharged (Mass / Day)*	Percentage of variation from prescribed standards with Reasons
PM₁₀	69.00 µg/NM³	100.00 µg/NM³	0.000109 kg/day	(-) 31.00 %
PM_{2.5}	25.93 µg/NM³	60.00 µg/NM³	0.000041 kg/day	(-) 56.78 %
SO₂	15.59 µg/NM³	80.00 µg/NM³	0.000025 kg/day	(-) 80.51 %
NO_x	25.08 µg/NM³	80.00 µg/NM³	0.000040 kg/day	(-) 68.65 %
CO	00.45 mg/NM³	02.00 mg/NM³	0.000706 kg/day	(-) 77.75 %

Ambient Air Quality Analysis – Near Boiler Area				
Parameters	Pollution	KSPCB Limits	Quantity of Pollutants Discharged (Mass / Day)*	Percentage of variation from prescribed standards with Reasons
PM₁₀	69.13 µg/NM³	100.00 µg/NM³	0.000109 kg/day	(-) 30.87 %
PM_{2.5}	24.18 µg/NM³	60.00 µg/NM³	0.000038 kg/day	(-) 59.70 %
SO₂	14.23 µg/NM³	80.00 µg/NM³	0.000023 kg/day	(-) 82.21 %
NO_x	23.80 µg/NM³	80.00 µg/NM³	0.000037 kg/day	(-) 70.25 %
CO	00.47 mg/NM³	02.00 mg/NM³	0.000742 kg/day	(-) 76.50 %

* **Calculation:** **Total Volume per Day = Quantity of Air in m³/Min (1.1) x Total Run Minutes (24 * 60 = 1440).**

Conclusion: The mean values obtained for various parameters in Ambient Air during the reporting period is well within the prescribed standards by the KSPCB.





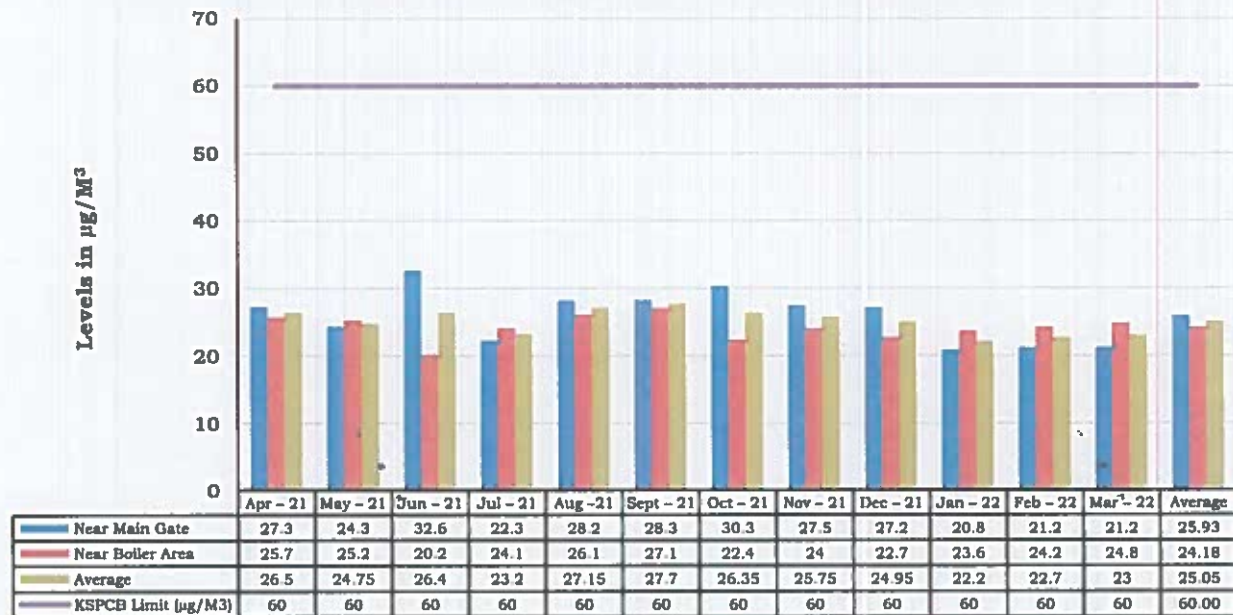
ENVIRONMENTAL STATEMENT IN FORM V

Graphical and Statistical Interpretation of Ambient Air Quality:

PM₁₀ Levels from April 2021 to March 2022 Near Main Gate and Boiler Area



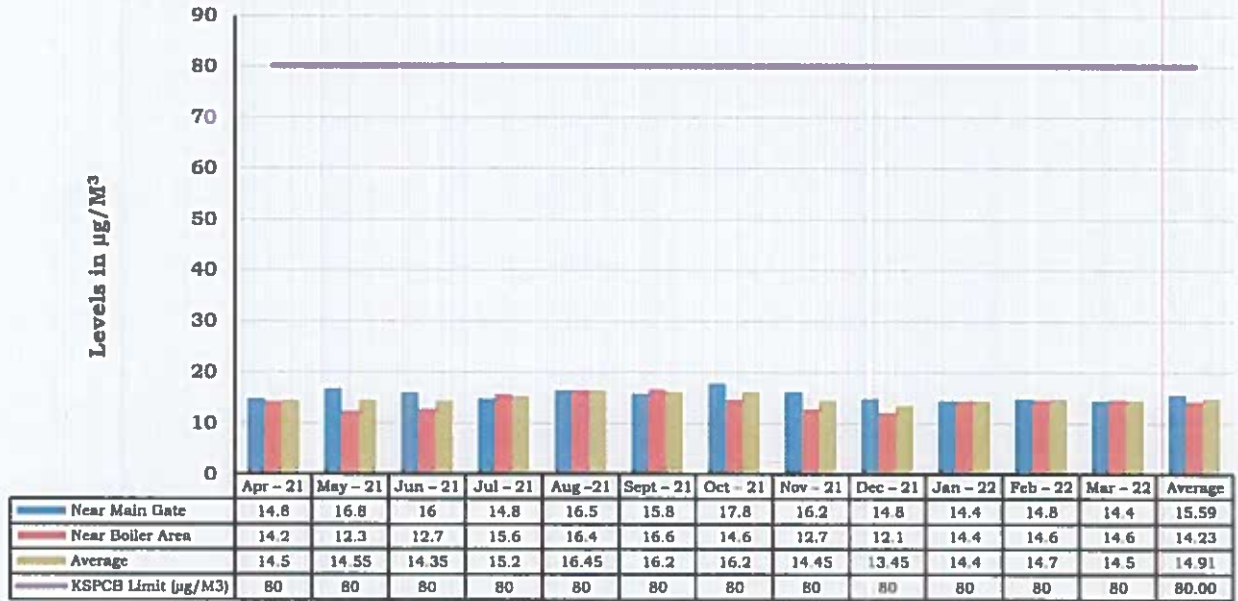
PM_{2.5} Levels from April 2021 to March 2022 Near Main Gate and Boiler Area



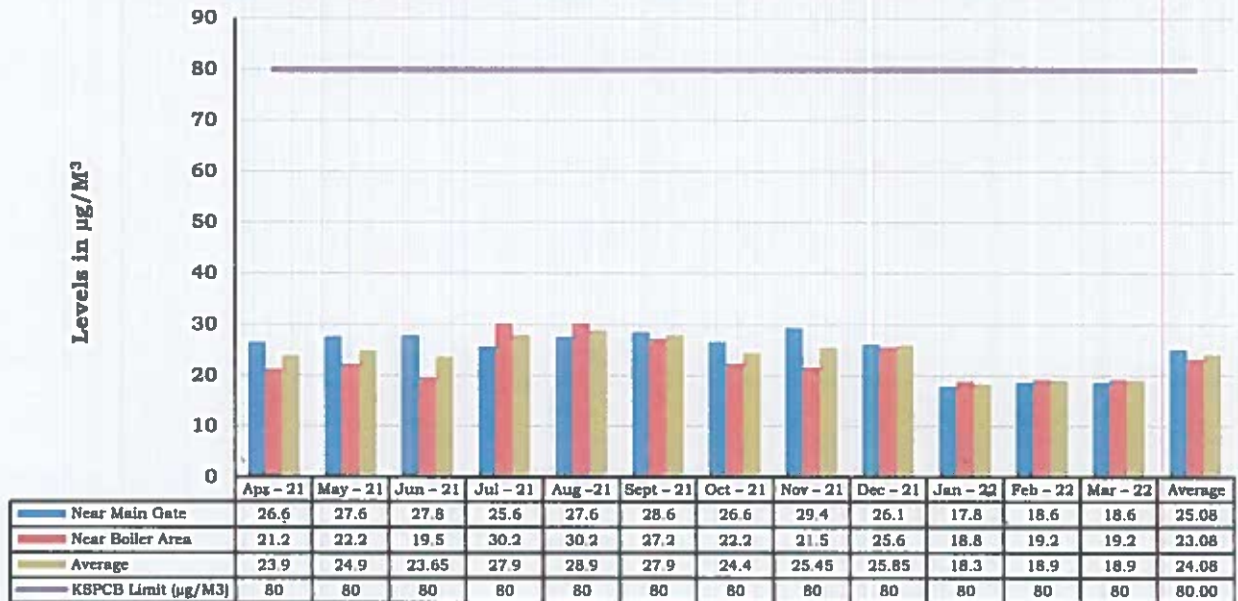


ENVIRONMENTAL STATEMENT IN FORM V

SO₂ Levels from April 2021 to March 2022 Near Main Gate and Boiler Area



NO_x Levels from April 2021 to March 2022 Near Main Gate and Boiler Area





ENVIRONMENTAL STATEMENT IN FORM V

(b.2) Stack Emission Monitoring:

Stack Emission – Boiler (3.5 TPH)				
Parameters	Pollution	KSPCB Limits	Quantity of Pollutants Discharged (Mass / Day)*	Percentage of variation from prescribed standards with Reasons
SPM	69.02 mg/NM ³	100.00 mg/NM ³	1.34 kg/day	(-) 30.98 %
SO ₂	20.40 mg/NM ³	600.00 mg/NM ³	0.40 kg/day	(-) 96.60 %
NO ₂	25.55 mg/NM ³	300.00 mg/NM ³	0.50 kg/day	(-) 91.48 %

*Stack CSA (M²): 0.314; Velocity: 7.18; Flue Gas Flow Rate: 811.44 NM³/Hr.

Conclusion: The mean values obtained for various parameters in Boiler Stack Emissions during the reporting period is well within the prescribed standards by the KSPCB.

Stack Emission – DG SET (380 KVA)				
Parameters	Pollution	KSPCB Limits	Quantity of Pollutants Discharged (Mass / Day)*	Percentage of variation from prescribed standards with Reasons
SPM	49.40 mg/NM ³	NS	0.27 kg/day**	--
SO ₂	23.09 mg/NM ³	NS	0.12 kg/day**	--
NO ₂	28.66 mg/NM ³	NS	0.15 kg/day**	--

*Stack CSA (M²): 0.01; Velocity: 6.58; Flue Gas Flow Rate: 224.88 NM³/Hr.

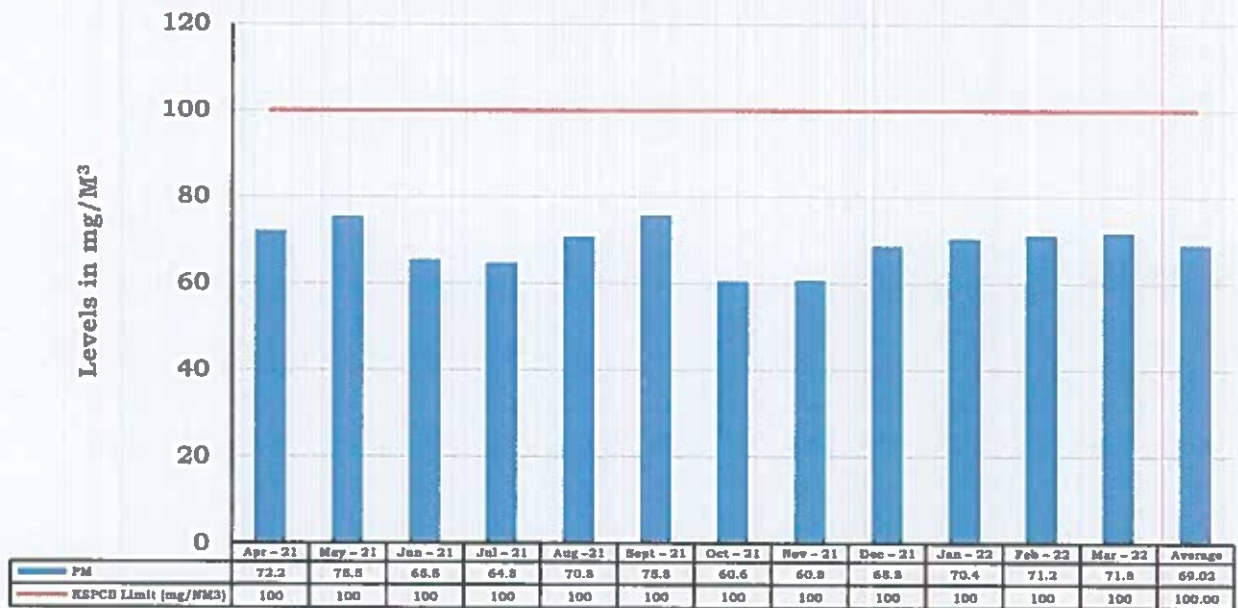
** Maximum discharged quantity for 24 hours continuous operation.



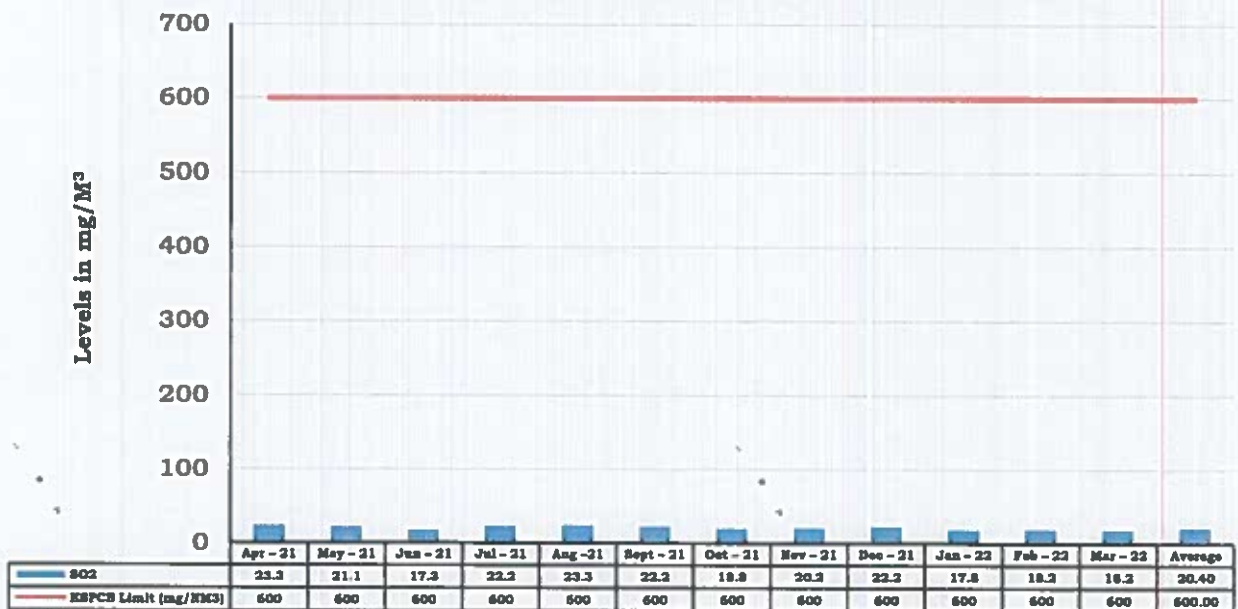


Graphical and Statistical Interpretation of Stack Emissions:

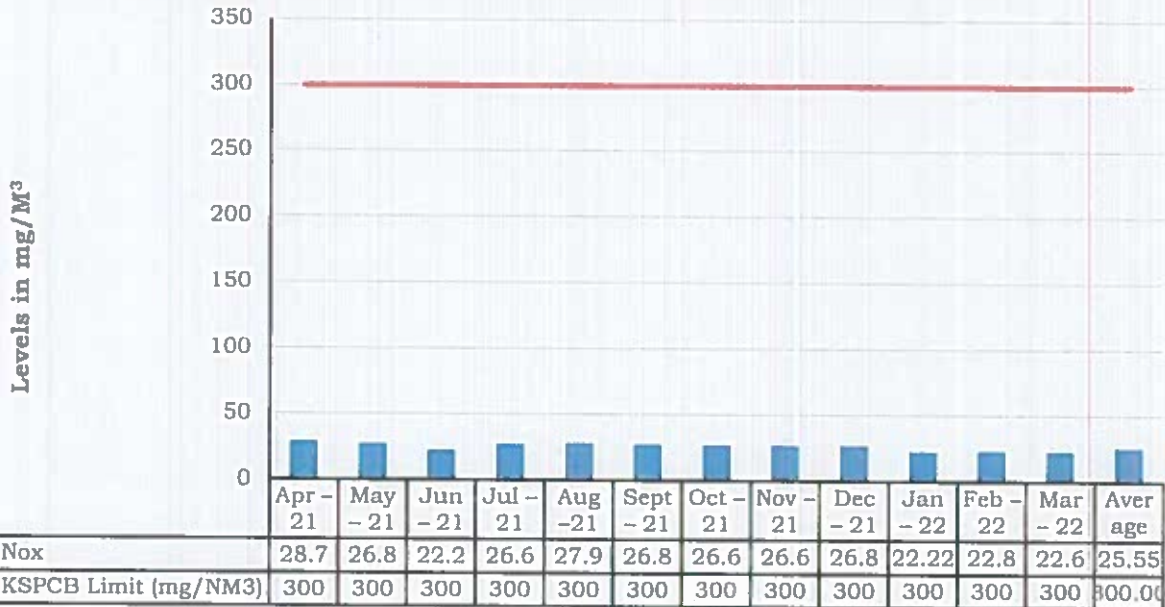
PM Levels of Boiler (3.5 TPH) Stack Emissions from April 2021 to March 2022



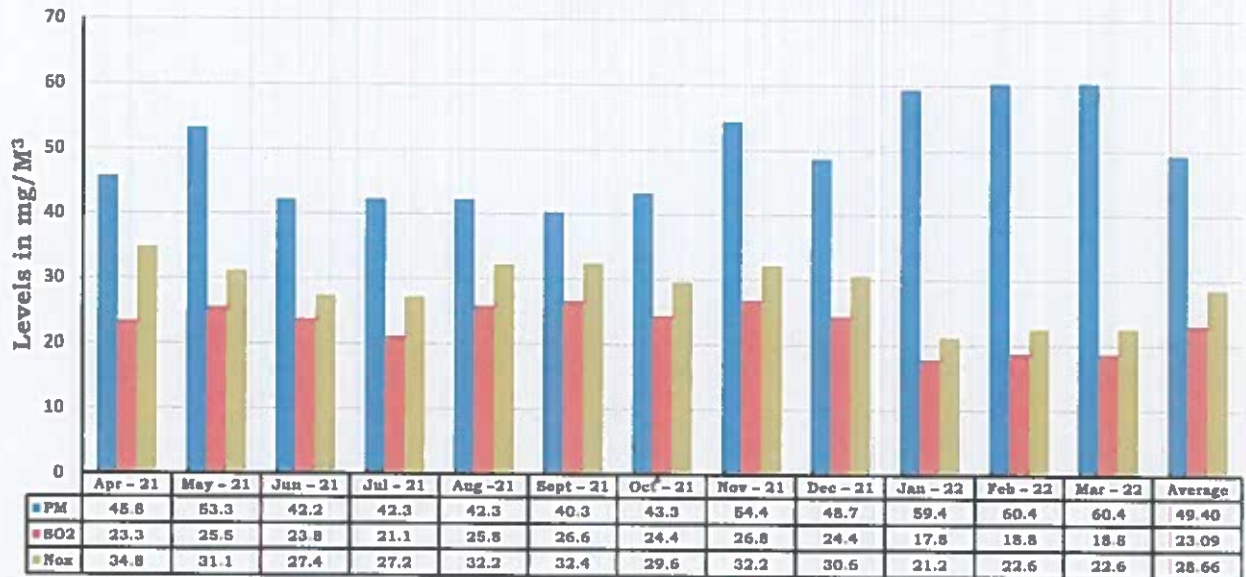
SO₂ Levels of Boiler (3.5 TPH) Stack Emissions from April 2021 to March 2022



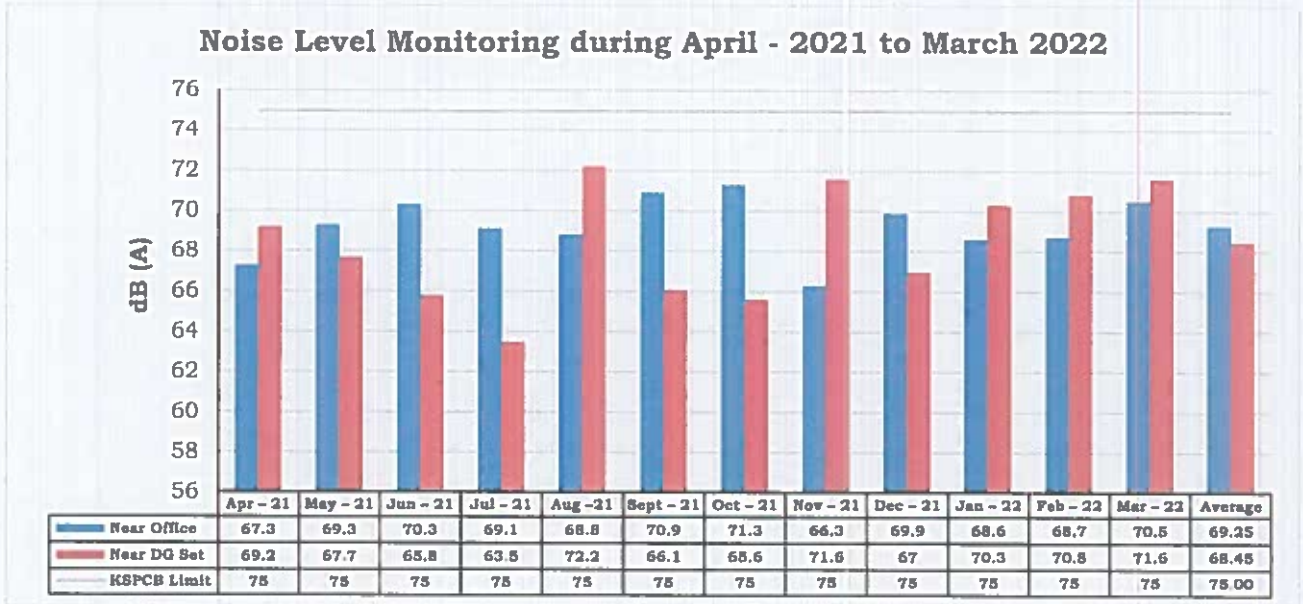
NOx Levels of Boiler (3.5 TPH) Stack Emissions from April 2021 to March 2022



Generator (380 KVA) Stack Emission Levels Monitoring from April 2021 to March 2022

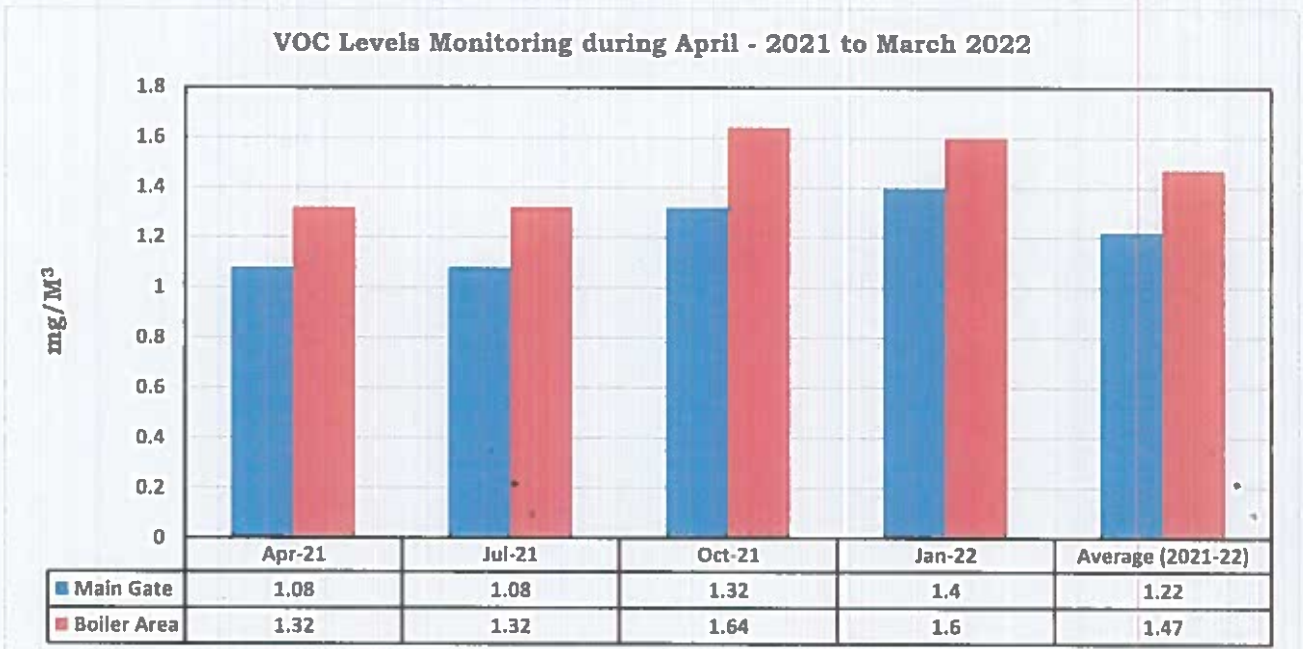


(b.3) Noise Level Monitoring:



Conclusion: The mean values obtained for Noise Level Monitoring during the reporting period is within the standards prescribed by KSPCB.

(b.4) Volatile Organic Compounds (VOC) Monitoring:





ENVIRONMENTAL STATEMENT IN FORM V

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling Rules, 2016).

Hazardous Wastes	Total Quantity	
	During the previous financial year (2020 - 21)*	During the current financial year (2021 - 22)
1. From Process		
Used Spent Oil -5.1	--	00.10 KL
Process Residue and Wastes - 28.1	--	26.45 MT
Spent Solvents - 28.6	--	42.70 KL
Empty Barrels/ Containers/liners contaminated with Hazardous Chemicals / Wastes - 33.1	--	01.00 MT
2. From Pollution Control Facilities		
Chemical Sludge from Waste Water Treatment - 35.3	--	36.00 MT

* Plant is under renovation and repairs during this period (CFO granted during the month of November, 2020).

PART - E

SOLID WASTES

Solid Wastes	Total Quantity	
	During the previous financial year	During the current financial year
a. From Process		
Recyclable Fiber Drums	0 Nos	200 Nos
b. From Pollution Control Facility	--	--
c. Quantity recycled or re-utilized within the unit.	NIL	NIL





ENVIRONMENTAL STATEMENT IN FORM V

PART - F

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

Sl. No.	Category Number	Waste Description	Nature of the Waste and Collected in	Disposal Practice
1	5.1	Used Spent Oil	Liquid, Collected in leak proof MS/PVC drums and securely stored in hazardous waste storage room	Disposed to CPCB and KSPCB authorized re-processors.
2	28.1	Process Residue and Wastes	Solid, Collected in LDPE /HDPE Bags and securely stored in hazardous waste storage room	Disposed to KSPCB authorized Incinerator
3	28.6	Spent Solvents	Liquid, Collected in leak proof MS/HDPE drums and securely stored in hazardous waste storage room	Disposed to KSPCB authorized re-processors/recyclers.
4	33.1	Empty Barrels / Containers / Liners contaminated with Hazardous Chemicals / Wastes	Solid, Collected and de contaminated, stored at hazardous waste storage room	Disposed to authorized recyclers.
5	35.3	Chemical Sludge from Waste Water Treatment	Solid, Collected in HDPE bags and securely stored in Dedicated Hazardous waste storage area	Disposed to TSDF /M/s Mother Earth Environ Tech Pvt. Ltd for secured Land fill
6	--	Recyclable Fiber Drums	Securely stored in Dedicated Area	Authorized Recycler





ENVIRONMENTAL STATEMENT IN FORM V

PART-G

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

Effluent Treatment Plant comprising of multiple effect evaporation and drying systems (ATFD) are installed in our unit to achieve Zero Liquid Discharge to eliminate water pollution and adverse effect on the environment due to our operations. By installing ETP and MEE we have totally avoided the need for effluent discharge and also the recovered water from effluent recycling plant is reused in our cooling towers as make up water which has resulted in conservation of natural resources that is fresh water intake to cooling tower make up is reduced.

PART - H

Additional measures/investment proposal for environmental protection including abatement of pollution.

1. The industry has installed the 2 Nos of new scrubbing systems which is connected to Glass Lined Reactors and Centrifuges, Stainless steel Reactors in Block C to avoid the acid mist and others in to the air. The industry is maintaining Zero Liquid Discharge policy.

PART - I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution.

- **Planted around 100 saplings this year in the areas of our premises in addition to existing green belt.**

For Vaidhatru Pharma Private Limited

Authorized Signatory

