



# 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-16/2023-2024

Date: 13<sup>th</sup> July, 2023.

To

The Regional Officer,  
Karnataka State Pollution Control Board,  
Near 3<sup>rd</sup> 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 2022-2023 - Reg.

**Dear Sir/Madam,**

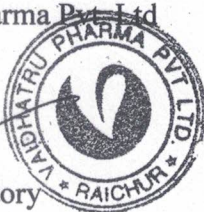
With reference to above subject, we hereby submitting the Environmental statement in Form-V  
for the Year 2022-23.

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

Yours faithfully

For Vaidhatru Pharma Pvt. Ltd

*Reddy*



Authorized Signatory



Encl: Environmental Statement FY 2022-2023.

# **ENVIRONMENTAL STATEMENT**

**(FORM - V)**

**FOR THE YEAR 2022- 2023**



**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  
31<sup>ST</sup> MARCH, 2023****PART-A**

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

Sl. No.	Name of the Product	Production Capacity (TPM)	Consented Total (Tons / Annum)	Manufactured Total (Tons / Annum)
1.	<b>Clopidogrel Bisulphate</b>	<b>0.5</b>	<b>6.00</b>	<b>4.00</b>
2.	<b>Efavirenz</b>	<b>1.0</b>	<b>12.00</b>	<b>2.00</b>
3.	Enalapril maleate	0.5	6.00	--
4.	Fexofenadine	0.5	6.00	--
5.	<b>Levocetirizine. HCl</b>	<b>2.0</b>	<b>24.00</b>	<b>15.00</b>
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	--
	<b>Total</b>	<b>10.5</b>	<b>126.00</b>	<b>21.00</b>

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





## ENVIRONMENTAL STATEMENT IN FORM V

### PART -B

#### Water and Raw Material Consumption

**i. Water consumption in m<sup>3</sup>/d**

Process: 02.00 KLD

Cooling: 09.00 KLD

Boiler: 06.00 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 Bisulphate:**

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	<b>Clopidogrel Bisulphate</b>	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





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**ENVIRONMENTAL STATEMENT IN FORM V**

Liquid Ammonia Solution	<b>Clopidogrel Bisulphate</b>	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	<b>Efavirenz</b>	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	<b>Levocetirizine</b>	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.
<b>(a) Water</b>			
<b>COD</b>	0.19 KG/Day	97.00 mg/l	Nil
<b>BOD</b>	0.08 KG/Day	38.50 mg/l	Nil
<b>TSS</b>	0.06 KG/Day	27.83 mg/l	Nil

**ETP Treated Water Analysis Report for the year from April - 2022 to March - 2023**

Parameter	pH	COD (mg/l)	BOD (mg/l)	TDS (mg/l)	TSS (mg/l)
<b>KSPCB LIMITS</b>	<b>5.5 - 8.5</b>	<b>250</b>	<b>100</b>	<b>2100</b>	<b>100</b>
<b>Apr - 22</b>	7.10	78.00	32.00	2042.00	24.00
<b>May - 22</b>	7.12	82.00	32.00	2048.00	26.00
<b>Jun - 22</b>	7.18	92.00	36.00	2048.00	26.00
<b>Jul - 22</b>	7.18	92.00	36.00	2048.00	26.00
<b>Aug -22</b>	7.20	94.00	36.00	2048.00	26.00
<b>Sept - 22</b>	7.24	98.00	38.00	2052.00	28.00
<b>Oct - 22</b>	7.24	98.00	40.00	2052.00	28.00
<b>Nov - 22</b>	7.28	104.00	42.00	2054.00	28.00
<b>Dec - 22</b>	7.28	102.00	40.00	2054.00	28.00
<b>Jan - 23</b>	7.30	104.00	42.00	2056.00	30.00
<b>Feb - 23</b>	7.32	108.00	44.00	2058.00	32.00
<b>Mar - 23</b>	7.32	112.00	44.00	2058.00	32.00
<b>Average</b>	<b>7.23</b>	<b>97.00</b>	<b>38.50</b>	<b>2051.50</b>	<b>27.83</b>



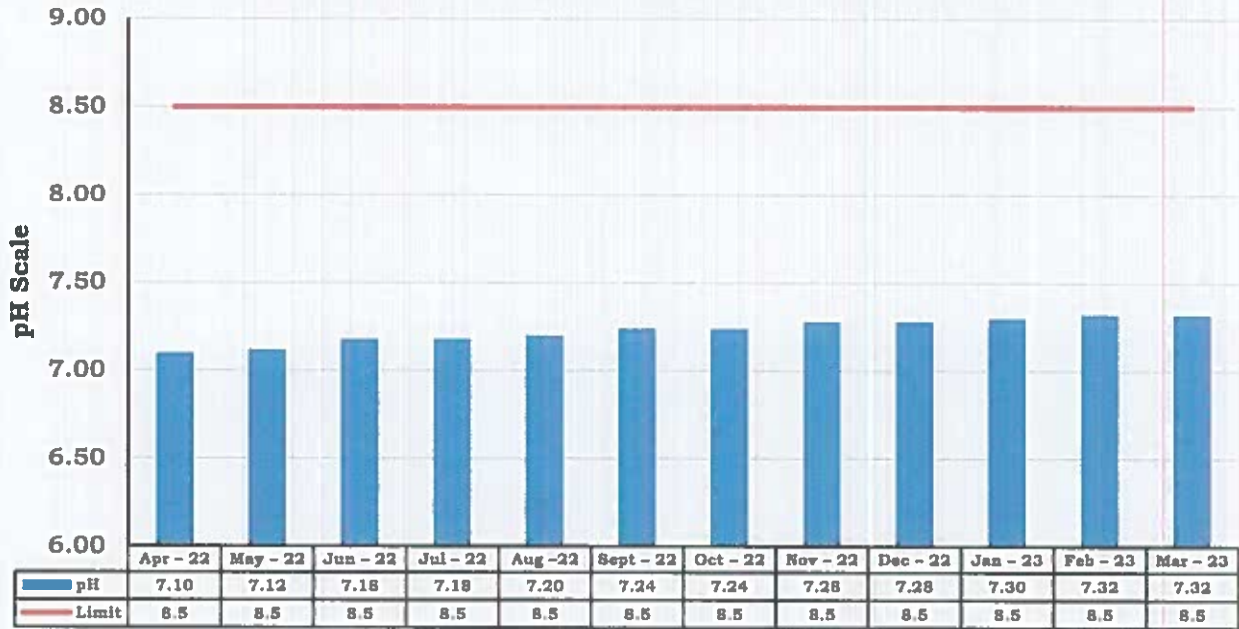


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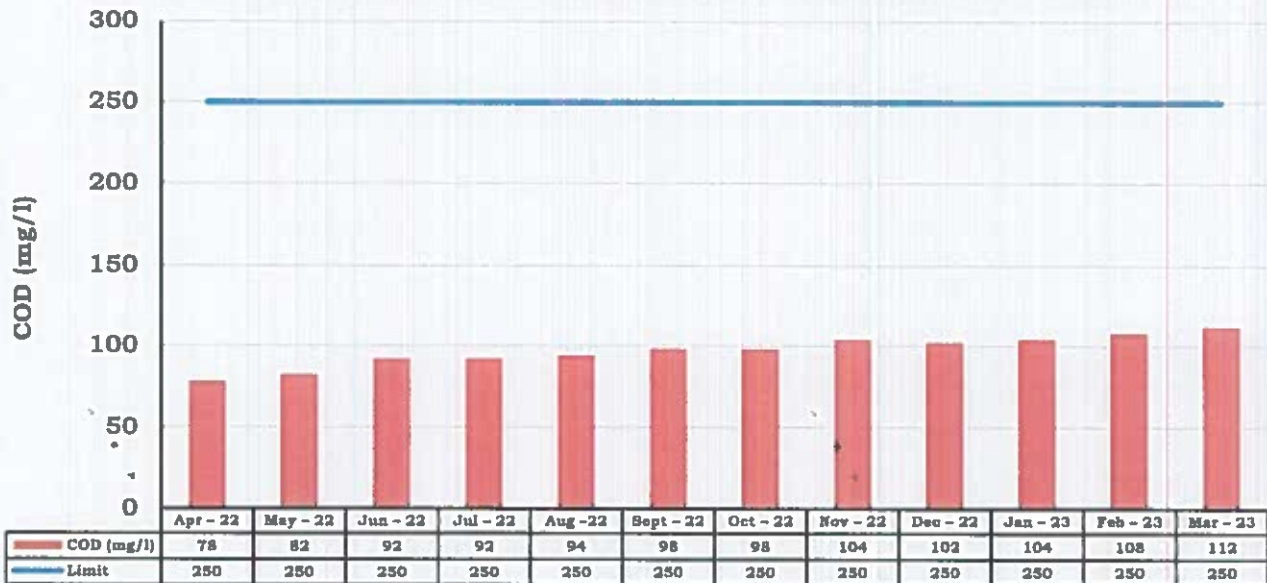
## ENVIRONMENTAL STATEMENT IN FORM V

### TRENDS OF VARIOUS PARAMETERS IN ETP TREATED WATER

**Trends of pH of Treated Water during April - 2022 to March - 2023**



**Trends of COD of Treated Water during April - 2022 to March - 2023**

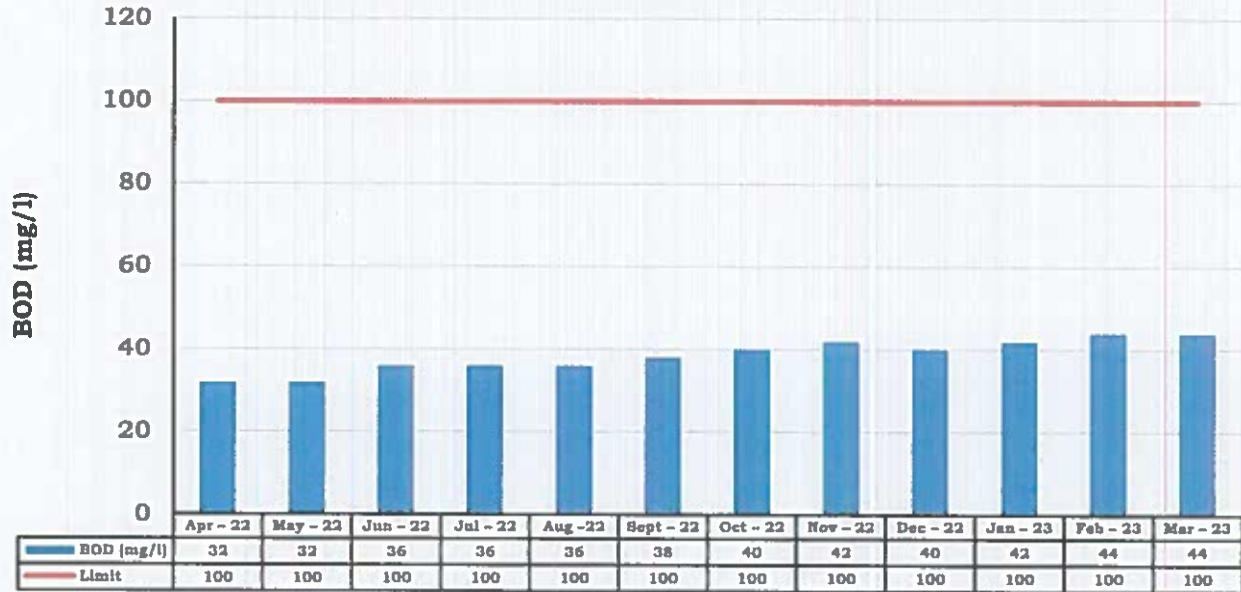




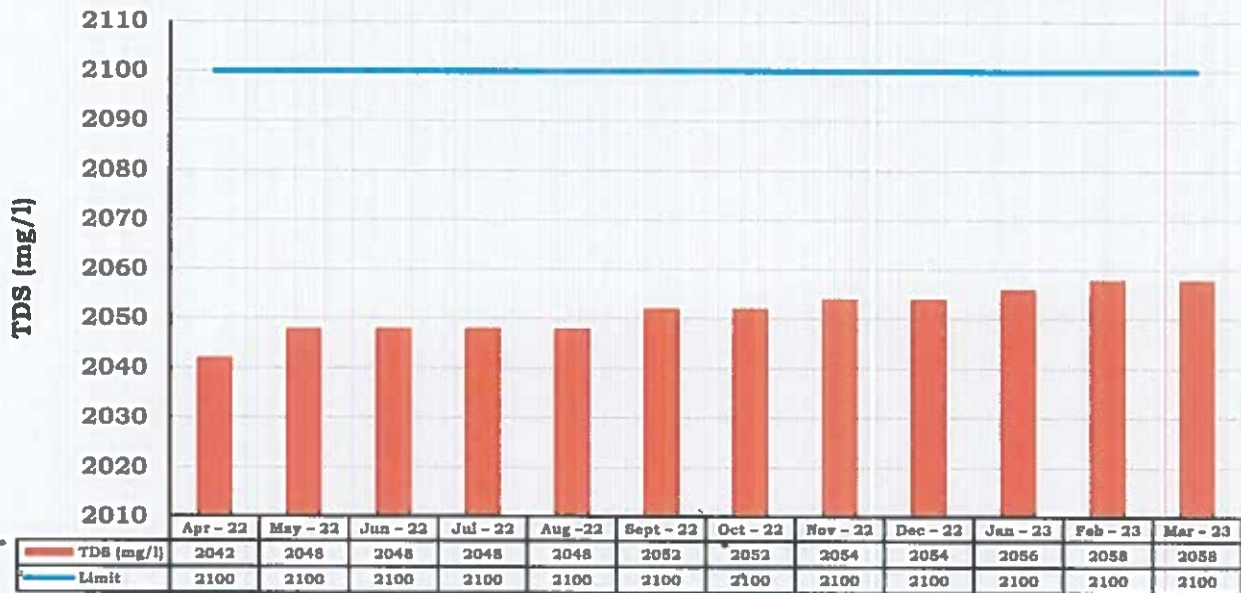


## ENVIRONMENTAL STATEMENT IN FORM V

**Trends of BOD of Treated Water during April - 2022 to March - 2023**



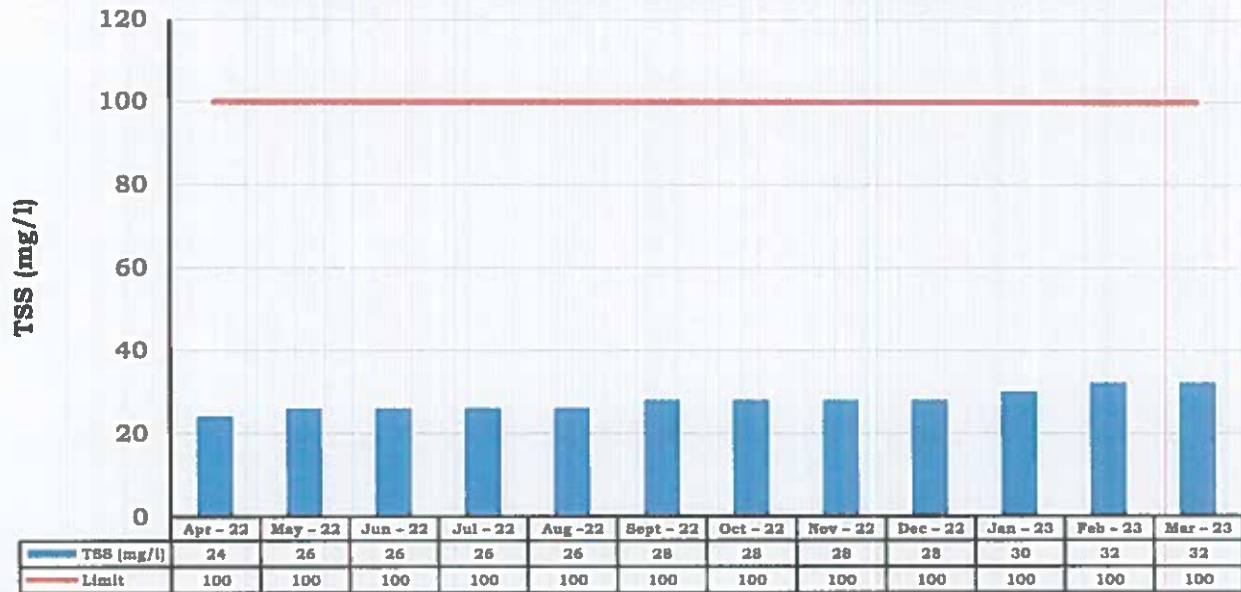
**Trends of TDS of Treated Water during April - 2022 to March - 2023**



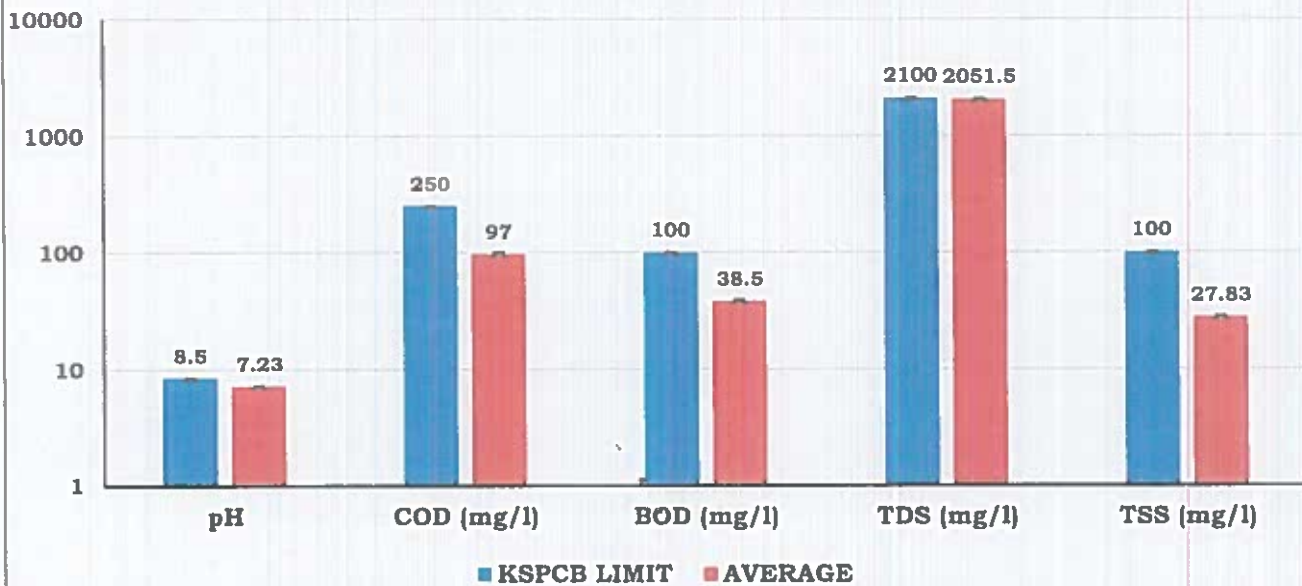


## ENVIRONMENTAL STATEMENT IN FORM V

**Trends of TSS of Treated Water during April - 2022 to March - 2023**



**Average of Various Parameters of Treated Water During April - 2022 to March - 2023**



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





## 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
PM <sub>10</sub>	66.13 µg/NM <sup>3</sup>	100.00 µg/NM <sup>3</sup>	0.000105 kg/day	(-) 33.87 %
PM <sub>2.5</sub>	23.82 µg/NM <sup>3</sup>	60.00 µg/NM <sup>3</sup>	0.000038 kg/day	(-) 60.30 %
SO <sub>2</sub>	14.90 µg/NM <sup>3</sup>	80.00 µg/NM <sup>3</sup>	0.000024 kg/day	(-) 81.37 %
NO <sub>x</sub>	21.17 µg/NM <sup>3</sup>	80.00 µg/NM <sup>3</sup>	0.000034 kg/day	(-) 73.53 %
CO	00.54 mg/NM <sup>3</sup>	02.00 mg/NM <sup>3</sup>	0.000853 kg/day	(-) 73.00 %

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
PM <sub>10</sub>	71.48 µg/NM <sup>3</sup>	100.00 µg/NM <sup>3</sup>	0.000113 kg/day	(-) 28.52 %
PM <sub>2.5</sub>	26.37 µg/NM <sup>3</sup>	60.00 µg/NM <sup>3</sup>	0.000042 kg/day	(-) 56.05 %
SO <sub>2</sub>	18.63 µg/NM <sup>3</sup>	80.00 µg/NM <sup>3</sup>	0.000030 kg/day	(-) 76.71 %
NO <sub>x</sub>	20.50 µg/NM <sup>3</sup>	80.00 µg/NM <sup>3</sup>	0.000032 kg/day	(-) 74.37 %
CO	00.65 mg/NM <sup>3</sup>	02.00 mg/NM <sup>3</sup>	0.001030 kg/day	(-) 67.25 %

\* Calculation: Total Volume per Day = Quantity of Air in m<sup>3</sup>/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.

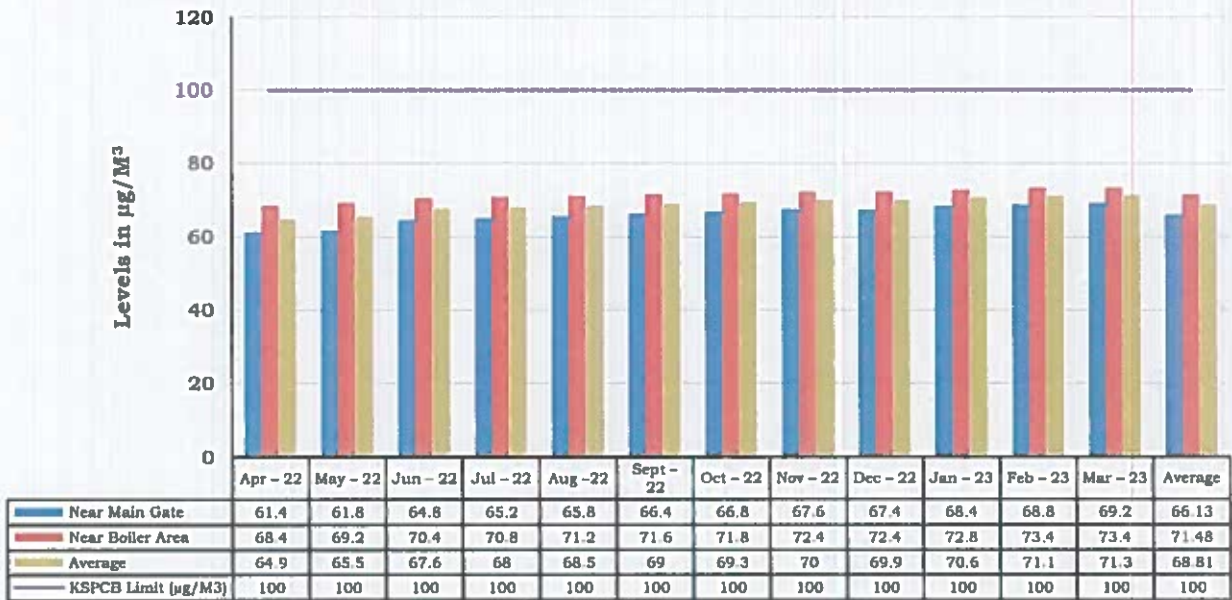




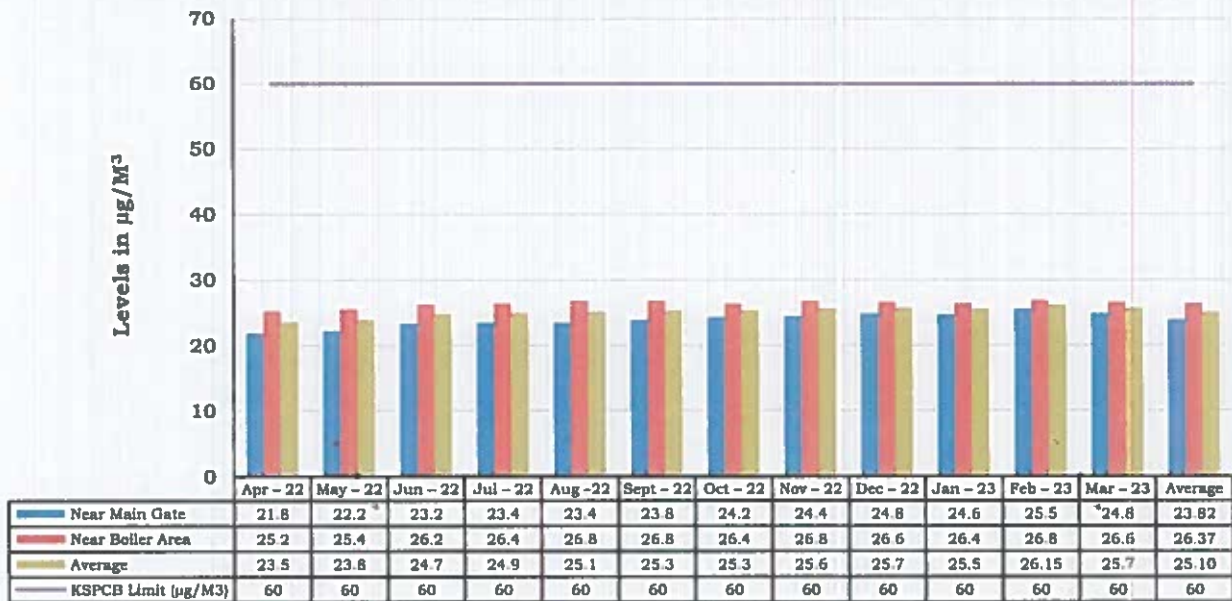
## ENVIRONMENTAL STATEMENT IN FORM V

### Graphical and Statistical Interpretation of Ambient Air Quality:

**PM<sub>10</sub> Levels from April 2022 to March 2023 Near Main Gate and Boiler Area**



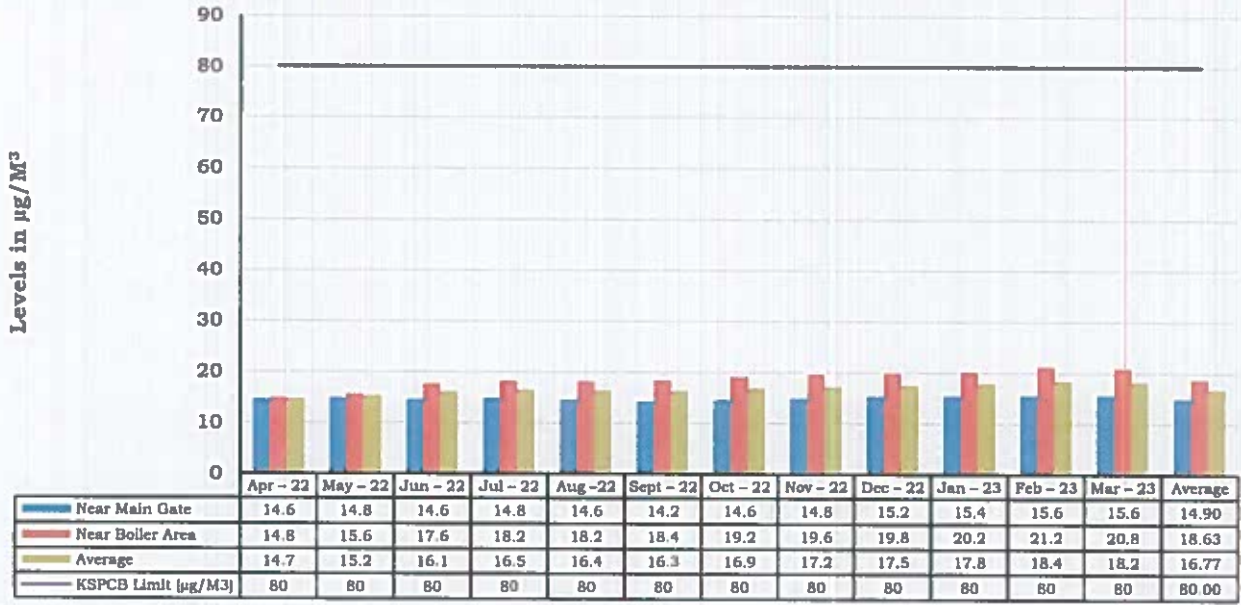
**PM<sub>2.5</sub> Levels from April 2022 to March 2023 Near Main Gate and Boiler Area**



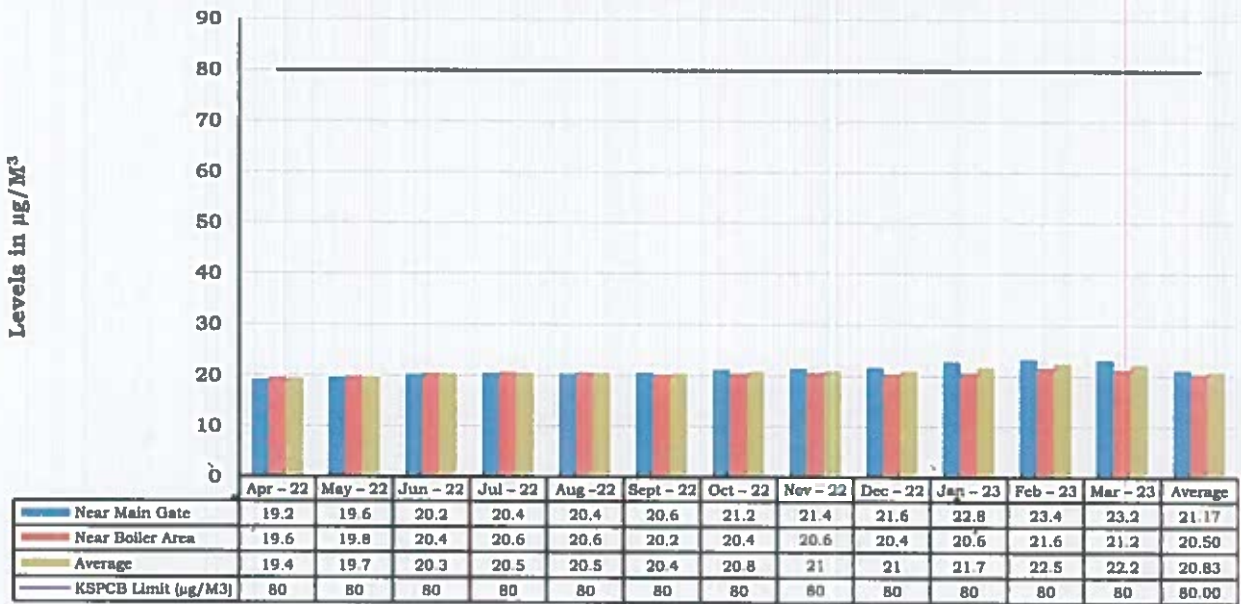


## ENVIRONMENTAL STATEMENT IN FORM V

**SO<sub>2</sub> Levels from April 2022 to March 2023 Near Main Gate and Boiler Area**



**NO<sub>x</sub> Levels from April 2022 to March 2023 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	76.47 mg/NM <sup>3</sup>	100.00 mg/NM <sup>3</sup>	1.49 kg/day	(-) 23.53 %
SO <sub>2</sub>	21.10 mg/NM <sup>3</sup>	600.00 mg/NM <sup>3</sup>	0.41 kg/day	(-) 96.48 %
NO <sub>2</sub>	23.97 mg/NM <sup>3</sup>	300.00 mg/NM <sup>3</sup>	0.47 kg/day	(-) 92.01 %

\*Stack CSA (M<sup>2</sup>): 0.314; Velocity: 7.2; Flue Gas Flow Rate: 813 NM<sup>3</sup>/Hr.

#### Conclusion:

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

Stack Emission - DG SET (400 KVA)				
Parameters	Pollution	KSPCB Limits	Quantity of Pollutants Discharged (Mass / Day)*	Percentage of variation from prescribed standards with Reasons
SPM	65.40 mg/NM <sup>3</sup>	NS	0.39 kg/day**	--
SO <sub>2</sub>	21.60 mg/NM <sup>3</sup>	NS	0.13 kg/day**	--
NO <sub>2</sub>	25.30 mg/NM <sup>3</sup>	NS	0.15 kg/day**	--

\*Stack CSA (M<sup>2</sup>): 0.01; Velocity: 7.36; Flue Gas Flow Rate: 251.67 NM<sup>3</sup>/Hr.

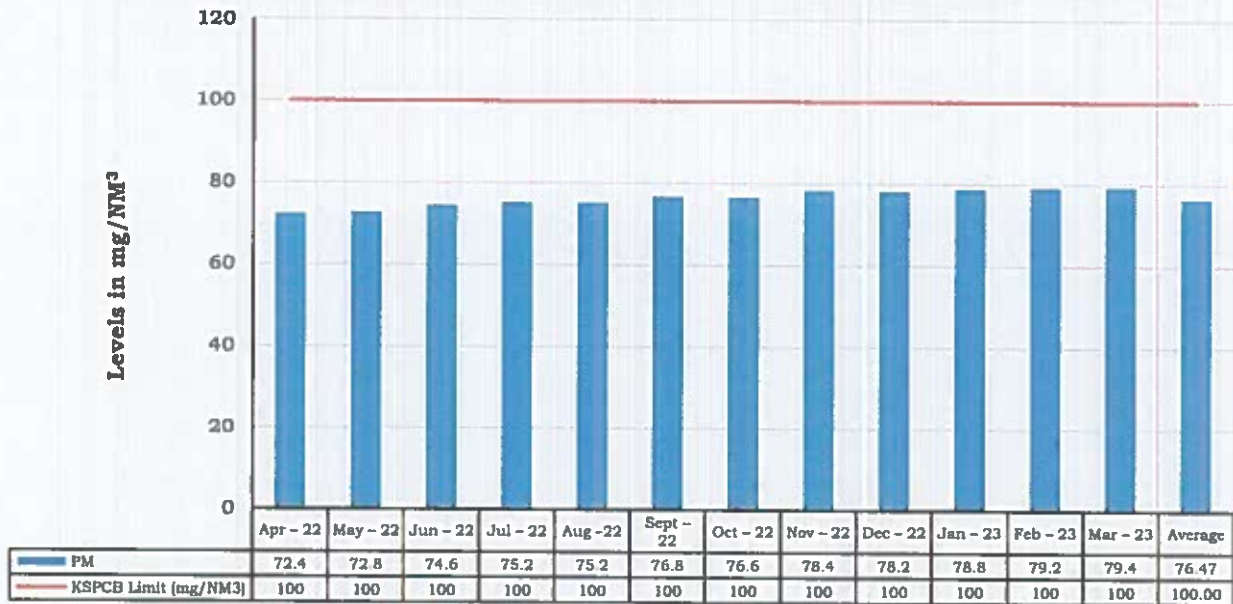
\*\* Maximum discharged quantity for 24 hours continuous operation.



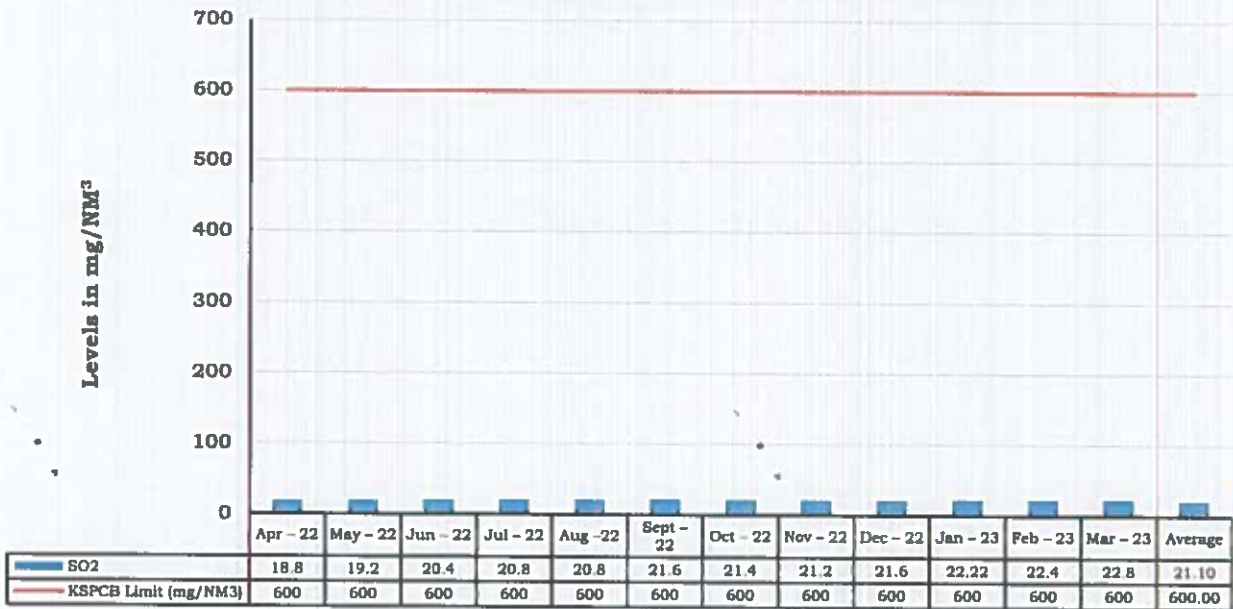


**Graphical and Statistical Interpretation of Stack Emissions:**

**PM Levels of Boiler (3.5 TPH) Stack Emissions from April 2022 to March 2023**



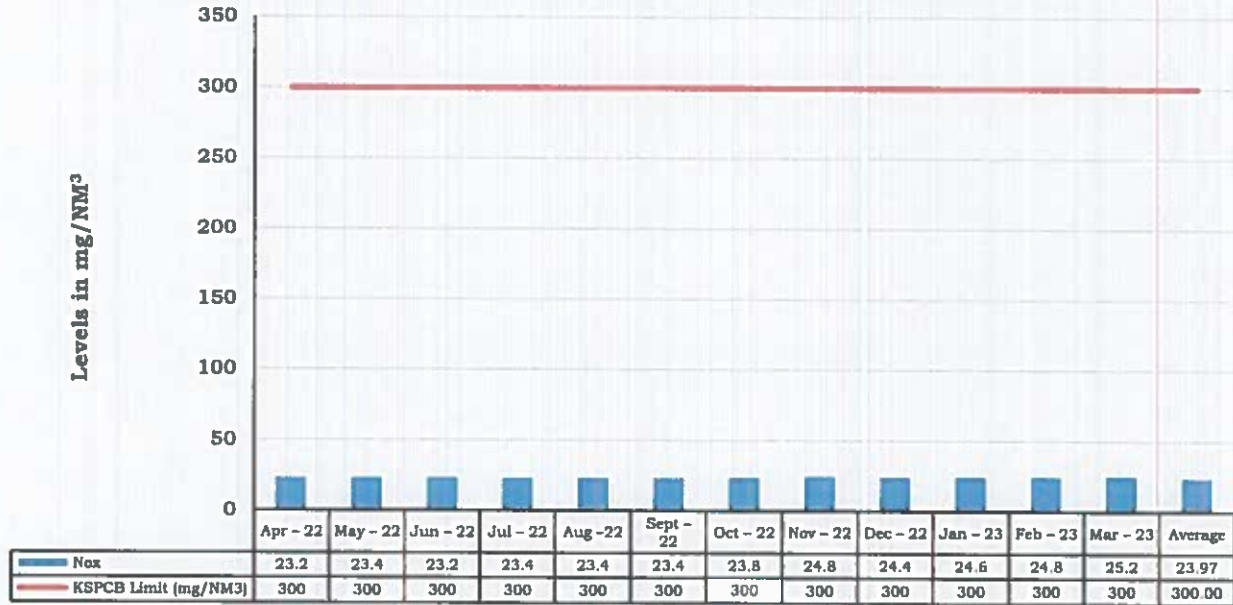
**SO<sub>2</sub> Levels of Boiler (3.5 TPH) Stack Emissions from April 2022 to March 2023**



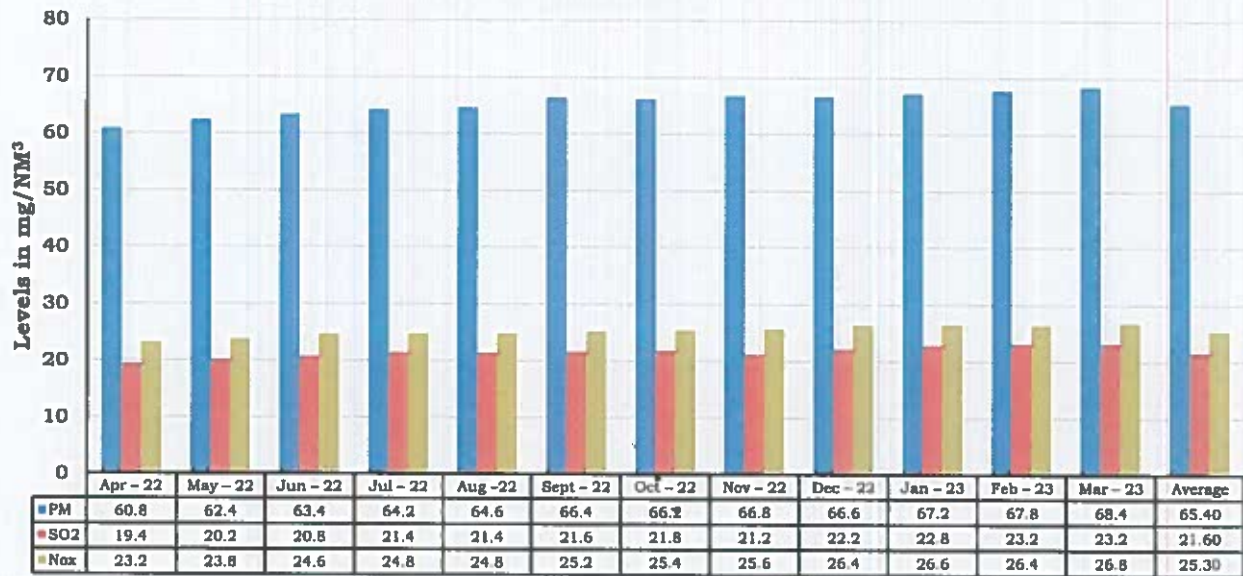


## ENVIRONMENTAL STATEMENT IN FORM V

**NO<sub>x</sub> Levels of Boiler (3.5 TPH) Stack Emissions from April 2022 to March 2023**



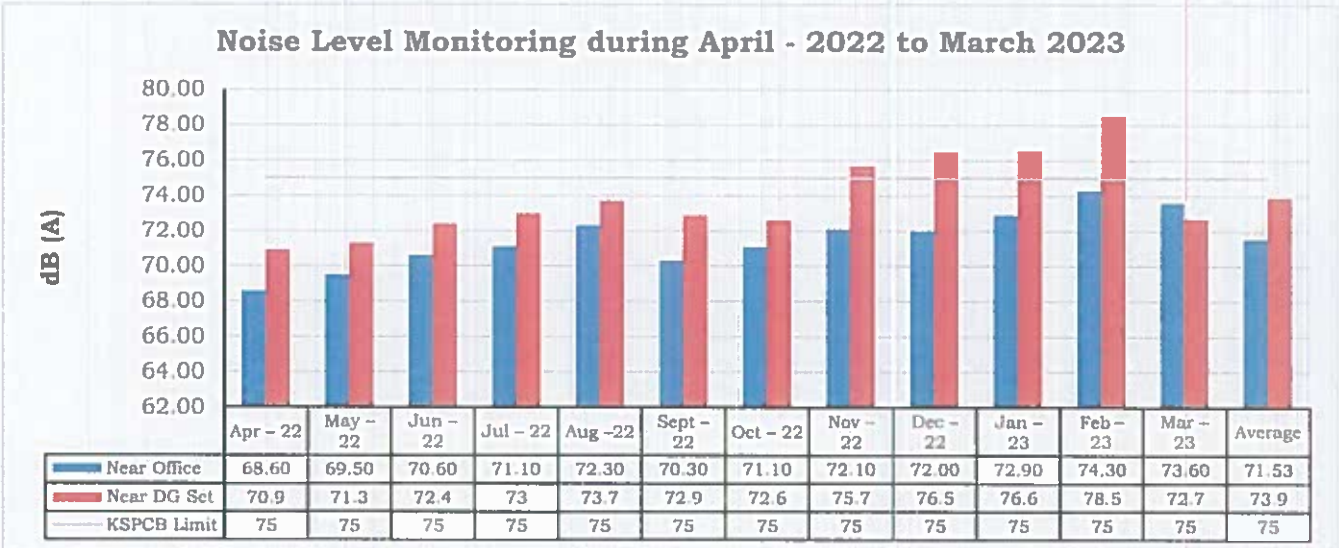
**Generator (400 KVA) Stack Emission Levels Monitoring from April 2022 to March 2023**







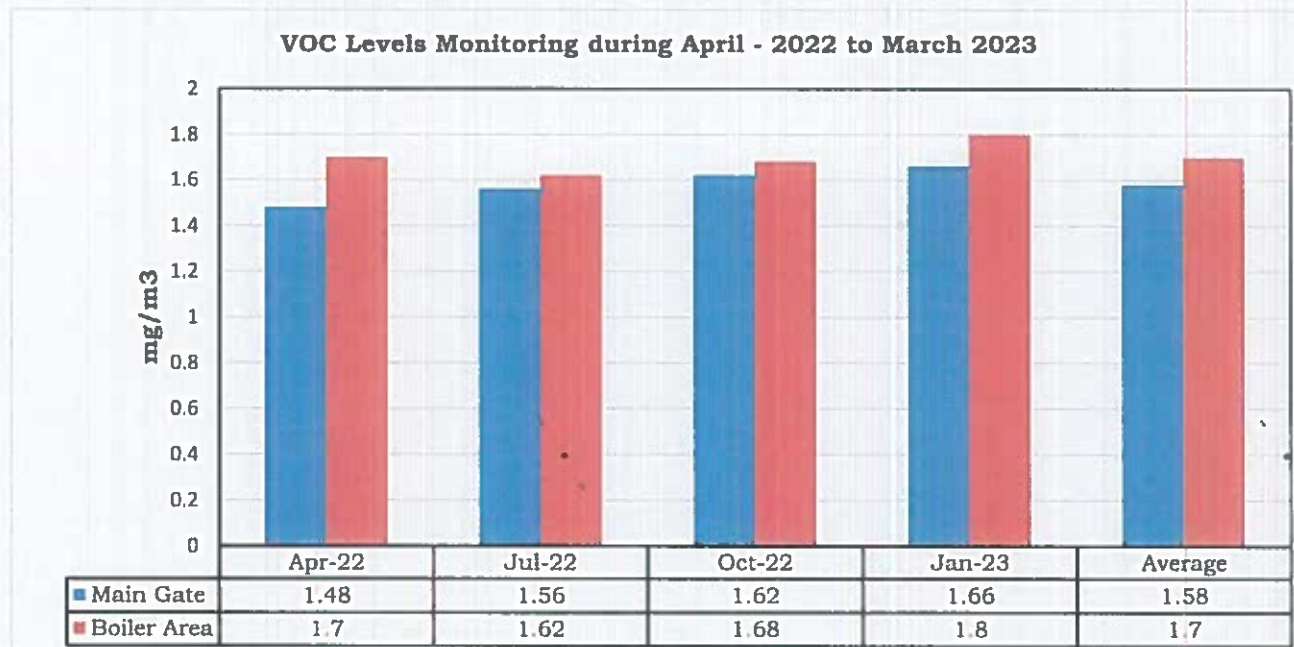
**(b.3) Noise Level Monitoring:**



**Conclusion:**

The mean values obtained for Noise Level Monitoring during the reporting period is within the standards prescribed by KSPCB. However, slightly higher levels of noise was observed at DG Set Area during the months of Nov - 22 to Feb - 23. The mitigation measures were taken to reduce the noise levels by properly closing acoustic enclosures.

**(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	During the current financial year
<b>1. From Process</b>		
Used Spent Oil -5.1	<b>00.10 KL</b>	<b>00.15 KL</b>
Process Residue and Wastes – 28.1	<b>26.45 MT</b>	<b>30.92 MT</b>
Spent Solvents – 28.6	<b>42.70 KL</b>	<b>55.54 KL</b>
Empty Barrels/ Containers/liners contaminated with Hazardous Chemicals / Wastes – 33.1	<b>01.00 MT</b>	<b>02.50 MT</b>
<b>2. From Pollution Control Facilities</b>		
Chemical Sludge from Waste Water Treatment - 35.3	<b>36.00 MT</b>	<b>56.00 MT</b>

### PART - E

#### **SOLID WASTES**

Solid Wastes	Total Quantity	
	During the previous financial year	During the current financial year
<b>a. From Process</b>		
Recyclable Fiber Drums	200 Nos	250 Nos
<b>b. From Pollution Control Facility</b>	--	--
<b>c. Quantity recycled or re-utilized within the unit.</b>	NIL	NIL





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## 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





**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. Proposed to install RO System to improve the quality of ETP condensate water and further to reduce the TDS content.

**PART - I**

**MISCELLANEOUS:**

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

- **Planted around 150 saplings this year in the areas of our premises in addition to existing green belt.**

For Vaidhatru Pharma Private Limited

*C Reddy*  
Authorized Signatory

