

No: CIP/PCB/2022/09/03

Date: ~~28.09.2023~~
30.09.2023

To,
The Regional Officer (Anekal Division)
Karnataka State Pollution Control Board
'NisargaBhavan' 2nd Floor.
Timmeriah Main Road, 7th D. Main,
Basaweshwaranagar
Bangalore-560001

Dear Sir,

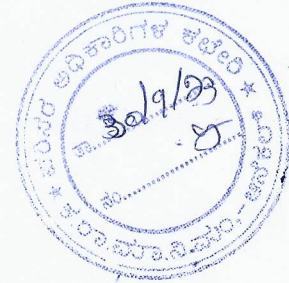
Subject: Submission of Environmental Statement in Form V for the year 2022-2023

We are herewith submitting Environmental statement in Form V under Environment (Protection) Act 1986 [Rule (14)] for the Year 2022-23 (April 2022 to March 2023).

Kindly accept and acknowledge the receipt of the same.

Thanking you
Sincerely Yours
For Cipla Limited


Pradeep Gupta
(Site Head)



Copy to:

1. The Senior Environmental Officer, 17 Category
'Parisara Bhavan'
4th & 5th Floor, Church Street
Bangalore-560001.
2. Hazardous Waste cell
Parisara Bhavan' 4th Floor,
Bangalore-560001.



Cipla Ltd.

Plot No. 285, 286 & 287, Bommasandra-Jigani Link Road Industrial Area, KIADB 4th Phase, Jigani Post, Bengaluru - 560 105.
P +91 80 22059200 F +91 80 22059220 E-Mail adminbms@cipla.com

Regd. Office - Cipla House, Peninsula Business Park, Ganpatrao Kadam Marg, Lower Parel, Mumbai 400013, India.

P +91 22 24826000 F +91 22 24826120 W www.cipla.com E-Mail contactus@cipla.com Corporate Identity Number L24239MH1935PLC002380

**ENVIRONMENTAL
STATEMENT
(FORM-V)
2022-23**

**CIPLA LIMITED.,
PLOT NO.: 285, 286 & 287
KIADB IV TH PHASE
JIGANI-BOMMASANDRA LINK ROAD,
BOMMASANDRA, BANGALORE-560105**

GENERAL INFORMATION

1	A) Name of the Industry	:	CIPLA LIMITED
	Address	:	Plot No.285,286 & 287, 4th Phase, KIADB Indl. Area, Bommasandra- Jigani Link Road, Anekal Taluk, Bangalore-560105.
	State	:	Karnataka
	Phone	:	080-22059200
	Email	:	Suresh.a1@Cipla.com
2	Ownership	:	Public Limited Company
3	Products Manufactured	:	Bulk Drugs – 113.46 MT/A
	a) Consented Capacity	:	
4	Year of establishment	:	2007
5	OPERATION DURING THE PERIOD OF AUDIT		
	a) Working days per year	:	365 Days
	b) Working days per week	:	7 Days
	c) No. of working shifts	:	3
6	No. of Employees	:	263
7	Current Approvals	:	Factory License: MYB-15789 Pollution Control Board CFO (Water & Air), Authorization for Hazardous Waste Storage & disposal
	Water Consent	:	AW-327994 valid up to 30.06.2026
	Air Consent	:	
	Hazardous waste authorization	:	328940 valid up to 30.06.2026



INTRODUCTION

1. PREFACE:

M/s. Cipla Limited is a professionally managed Public Limited Company established in 1935. It manufactures and markets a wide range of Pharmaceutical Formulations and Bulk Drugs.

The Corporate headquarters are in Mumbai Central, where senior qualified corporate personnel are available for providing support to the manufacturing plants in the areas of Technology, Research and Development, Manufacturing, Quality Control, Quality Assurance and Health, Safety & Environment.

BRIEF DESCRIPTION OF THE SITE:

The Cipla manufacturing facilities at Bommasandra Industrial area was started in 2007. It is situated on the Bommasandra-Jigani Link Road at a distance of about 28 km from Bangalore City.

The total area of the site is 28.23 Acres. Currently no activity other than manufacture of bulk drug is carried out at the site. The factory has strength of about 265 employees, which are in the management category. Site is well laid out for providing safety to the employees and environment.

1.1 QUALITY MANAGEMENT:

The company's quality policy states that 'The Company is committed to ensure that every product it manufactures and distributes consistently meets with present standards of quality, purity, efficacy, and safety.



Quality is a collective responsibility. Excellence in products, processes and systems is achieved through the team efforts of trained personnel of the company”.

Implementation of the Quality Policy is done through quality systems based on Current Good Manufacturing Practices in the conformity with national and international standards. The role of Quality Assurance is to co-ordinate the development and maintenance of the Company's quality procedures and systems. This is achieved by a combination of systematic sampling, testing, validating, monitoring and auditing of materials, facilities, systems and procedures which can influence the quality of the Company's products throughout their shelf-life.

There are authorized Standard Operating Procedures for all operations including production, quality control, materials management, warehousing and distribution, safety, environmental controls, housekeeping, sanitation and engineering. The role of Quality Assurance is to ensure that these procedures are adhered to and records maintained. Any deviation or discrepancy is investigated and documented. Corrective action is taken wherever necessary.

Periodic self-inspection and audits are conducted to monitor the effective implementation of quality, Safety and Environmental Management systems. The self-inspection and audits are conducted by designated personnel of the Company and / or by external agencies.



1.2 PROCESSING:

Manufacturing is done in batch quantities. Batches are planned as and when required for captive consumption or export. Reactions are carried out in closed reactors. Final stages of manufacture such as drying, milling or blending are carried out in closed cubicles under appropriate environmental controls.

1.3 SAFETY, HEALTH AND ENVIRONMENT:

Protecting the health of all personnel and others and ensuring safety at work is one of the prime objectives of the company.

Safety is the responsibility of individual departments supported by a team of specialists in Safety Management. The site is provided with firefighting facilities including fire hydrant systems. Personnel are continuously trained in all aspects of safety. Smoke detector, Heat detector, PA system, MCP, Central Communication systems are provided to tackle emergency situations.

The unit has a full-fledged Zero liquid discharge Effluent treatment plant with a conventional extended aeration activated sludge process followed by Reverse Osmosis effluent recycling plant.

High TDS effluent stream is completely segregated and is treated in a Stripper/Multiple effect evaporator and agitated thin film drier. (Refer Annexure-1 for Effluent treatment scheme).

Product and Raw material list (Refer Annexure-2)



Emissions are well within the permissible limits (Refer Annexure-3 for Emission Details) and statistical interpretation of the emissions is enclosed to this statement.

Water consumption is within the Limit (Refer Annexure-4 for Water Consumption Details) Water consumption from April-2022 to March-2023 enclosed to this statement.



ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)

Environmental Statement for the financial year ending with 31st March 2023

PART-A

I. Name and address of the owner/ Occupier of the industry

Mr. Umang Vohra
Managing Director and Global CEO
Cipla Limited.,
Plot No: 285,286,287, KIADB Industrial Area, IVth Phase,
Bommasandra – Jigani link road
Bangalore - 560 105

II. Industry category Primary- (STC Code) Secondary- (STC Code)

Large scale-Red category

III. Production capacity (Units): **Bulk Drugs 113.46 MT/A**

IV. Year of establishment: **2007**

V. Date of the last environmental statement submitted: 22.09.2022.

PART. B

Water and Raw Material Consumption:

I. Water consumption in m3/d

- **Process: 16.53 KLD**
- **Cooling: 26.85 KLD**
- **Domestic: 20.08 KLD**



Sl. No	Name of the Product	Process water consumption per unit of product output (L/ Kg)	
		During the previous financial year (Ltr/ Kg)	During the current financial year (Ltr/ Kg)
1	ABIRATERONE ACETATE	18.43 lit/Kg	25 lit/Kg
2	DASATINIB		
3	ERLOTINIB HYDROCHLORIDE		
4	GEFITINIB		
5	IBRUTINIB		
6	IMATINIB MESYLATE		
7	LETROZOLE		
8	PAZOPANIB HYDROCHLORIDE		
9	POMALIDOMIDE		
10	SORAFENIB TOSYLATE		
11	VINBLASTINE SULPHATE		
12	VINCRISTINE SULPHATE		

Manufactured Quantity of Products from April 2022 to March 2023	Name Of the product	Qty in Tons
	ABIRATERONE ACETATE	0.050
	DASATINIB	0.016
	ERLOTINIB HYDROCHLORIDE	0.09
	GEFITINIB	0.072
	IBRUTINIB	0.009
	IMATINIB MESYLATE	2.105
	LETROZOLE	0.069
	PAZOPANIB HYDROCHLORIDE	0.136
	POMALIDOMIDE	0.00092
	SORAFENIB TOSYLATE	0.5
	VINBLASTINE SULPHATE	0.001
	VINCISTINE SULPHATE	0.000175
	R&D Products	0.163
	TOTAL	3.212

ii. Raw material consumption

Raw Material Consumption list			
1	ACETIC ANHYDRIDE	28.500	KG
2	3-AMINO PHENYL ACETYLENE.	3.790	KG
3	SODIUM SULPHATE ANHYDROUS	14.200	KG
4	3-AMINO PHENYL ACETYLENE.	3.970	KG
5	SODIUM CHLORIDE	5.000	KG
6	3-AMINO PHENYL ACETYLENE.	4.130	KG
7	SODIUM SULPHATE ANHYDROUS	14.200	KG
8	SODIUM CHLORIDE	5.000	KG
9	POTASSIUM CARBONATE POWDER	17.120	KG
10	ACTIVATED CHARCOAL COMMERCIAL	6.000	KG
11	GFT A	16.670	KG
12	GFT A	3.330	KG
13	POTASSIUM CARBONATE POWDER	17.120	KG
14	LTR-02	0.698	KG



15	LTR-02	8.764	KG
16	POM NITRO	0.038	KG
17	POM NITRO	1.962	KG
18	VINBLASTINE TECHNICAL	1,500.000	G
19	SODIUM SULPHATE ANHYDROUS	1.700	KG
20	DL TARTARIC ACID	2.250	KG
21	METHANE SULPHONIC ACID(ANHYD) LR GRADE	46.860	KG
22	SORAFENIB BASE.	65.000	KG
23	PARA TOLUENE SULPHONIC ACID	87.5	KG

PART C
POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT

*Parameters as specified in the consent issued

AIR

Ambient Air Analysis -Near Production Area (East Side)

Parameters	Pollution	KSPCB Limits	Quantity of pollutants discharged(mass/day)	Percentage of variation from prescribed standards with reasons
Parameters	µg/NM3	Limits	kg/day	% (Below permissible limit)
PM ₁₀	44.78	100.00	0.000071	Within the limit
PM _{2.5}	20.98	60.00	0.000033	Within the limit
SO ₂	12.28	80.00	0.000019	Within the limit
Lead	-	1.00	0.000000	Within the limit
NO _X	18.23	80.00	0.000029	Within the limit
Quantity of Air in m3/Min			1.1	
Total run minutes			1440	
Total Volume			1584	



Ambient Air Analysis- Near Material Security Gate (South Side)				
Parameters	Pollution	KSPCB Limits	Quantity of pollutants discharged(mass/day)	Percentage of variation from prescribed standards with reasons
	µg /NM3	Limits	kg/day	% (Below Permissible limit)
PM ₁₀	52.47	100.00	0.000083	Within the limit
PM _{2.5}	22.81	60.00	0.000036	Within the limit
SO ₂	11.56	80.00	0.000018	Within the limit
Lead	-	1.00	0.000000	Within the limit
NOX	16.85	80.00	0.000027	Within the limit
	Quantity of Air in m3/Min		1.1	
	Total run minutes		1440	
	Total Volume		1584	

Ambient Air Analysis- Near Boiler Area (West Side)				
Parameters	Pollution	KSPCB Limits	Quantity of pollutants discharged(mass/day)	Percentage of variation from prescribed standards with reasons
	µg /NM3	Limits	kg/day	% (Below Permissible limit)
PM ₁₀	45.80	100.00	0.000073	Within the limit
PM _{2.5}	24.14	60.00	0.000038	Within the limit
SO ₂	13.47	80.00	0.000021	Within the limit
Lead	-	1.00	0.000000	Within the limit
NOX	20.24	80.00	0.000032	Within the limit
	Quantity of Air in m3/Min		1.1	
	Total run minutes		1440	
	Total Volume		1584	



Ambient Air Analysis -Near ETP (North Side)				
Parameters	Pollution	KSPCB Limits	Quantity of pollutants discharged(mass/day)	Percentage of variation from prescribed standards with reasons
	µg /NM3	Limits	kg/day	% (Below permissible limit)
PM ₁₀	43.36	100.00	0.000069	Within the limit
PM _{2.5}	20.44	60.00	0.000032	Within the limit
SO ₂	10.25	80.00	0.000016	Within the limit
Lead	-	1.00	0.000000	Within the limit
NOX	13.98	80.00	0.000022	Within the limit
	Quantity of Air in m3/Min		1.1	
	Total run minutes		1440	
	Total Volume		1584	

Stack Emission – Boiler					
Parameters	mg/Nm3	Limits	kg/day	kg/ltr	%
	Pollution	KSPCB Limits	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges(mass/volume)	Percentage of variation from prescribed standards with reasons
SPM	8.91	150.00	0.7816		Within limit
Flue gas discharged flow nm3/hr.				3655.19	
Total flue gas discharged per day				87724.56	

Stack Emission - DG Set (1500 KVA)					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
SPM	39.60	150.00	2.1399		Within limit
Flue gas discharged flow nm3/hr.				2251.53	
Total flue gas discharged per day				54036.72	



Stack Emission - Scrubber System (SCB-201)

Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	5.08	35.00	0.0763		Within limit
Flue gas discharged flow nm3/hr.			626.24		
Total flue gas discharged per day			15029.76		

Stack Emission - Scrubber System (SCB-202)

Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	4.68	35.00	0.0680		Within limit
Flue gas discharged flow nm3/hr.			605.72		
Total flue gas discharged per day			14537.28		

Stack Emission - Scrubber System (SCB-203)

Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	5.13	35.00	0.2362		Within the limit
Flue gas discharged flow nm3/hr.			1918.54		
Total flue gas discharged per day			46044.96		

Stack Emission - Scrubber System (SCB-204)

Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	7.1	35.00	0.1482		Within the limit
Flue gas discharged flow nm3/hr.			869.88		
Total flue gas discharged per day			20877.12		

Stack Emission - Scrubber System (SCB-205)



Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	6.15	35.00	0.1313		Within the limit
Flue gas discharged flow nm3/hr.				889.85	
Total flue gas discharged per day				21356.4	

Stack Emission - Scrubber System (SCB-206)					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	7.70	35.00	0.1671		Within the limit
Flue gas discharged flow nm3/hr.				904.38	
Total flue gas discharged per day				21705.12	

Stack Emission - Scrubber System (SCB-207)					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	6.54	35.00	0.1502		Within the limit
Flue gas discharged flow nm3/hr.				956.79	
Total flue gas discharged per day				22962.96	

Stack Emission - Scrubber System (SCB-101)					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	6.35	35.00	0.3566		Within the limit
Flue gas discharged flow nm3/hr.				2340.06	
Total flue gas discharged per day				56161.44	



Stack Emission - Scrubber System (SCB-17)					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	5.56	35.00	0.2928		Within the limit
Flue gas discharged flow nm3/hr.				2194.48	
Total flue gas discharged per day				52667.52	

PART-D
HAZARDOUS WASTES

as specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

Hazardous Wastes	Total Quantity (Kg)			
	During the previous financial year		During the current financial year	
1. From Process	Used oil (Ltrs)	0.85 KL	Used oil (Ltrs)	0.750 KL
	Waste residue containing oil	0.10 MT	Waste residue containing oil	0.01 MT
	Distillation residue	Nil	Distillation residue	4.67 MT
	Process Residue	26.94 MT	Process Residue	31.57 MT
	Spent organic solvent	341.170 MT	Spent organic solvent	416.64 MT
	Date of expired products	Nil	Date of expired products	Nil
	Off-specification products	0.350	Off-specification products	Nil
	Discarded containers contaminated with HW/chemicals	5.066 MT	Discarded containers contaminated with HW/chemicals	4.67 MT
2. From Pollution Control Facilities	Chemical sludge from Wastewater treatment	7.03 MT	Chemical sludge from Wastewater treatment	5.77 MT
	MEE Salts	4.68 MT	MEE Salts	3.90MT



PART -E
SOLID WASTES

	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From process	1. Recyclable Fiber Drums – 784 No's 2. Plastic waste- 449 Kgs 3. Paper waste - 1186 Kgs	1. Recyclable Fiber Drums – 880 Nos 2. Plastic waste- 1040.3 Kgs 3. Paper waste – 4655.76 Kgs
b. From Pollution Control Facility	--	--
	Nil	Nil

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.

Sr. No	Category number	Waste description	Collected in	Disposal Method
1	28.6	Spent solvents/ recovered organic solvents	Tankers/MS drums	KSPCB authorized recyclers
2	5.1	Used oil	MS Drums	KSPCB authorized Re Processors
3	5.2	Wastes residues containing Oil	Leak proof bags	KSPCB authorized Incinerator
4	33.1	Discarded containers (MS drums/HDPE Drums/ barrels/carboys)	-	Authorized recyclers
5	20.3	Distillation Residue	MS Drums	KSPCB authorized Incinerator
6	28.1	Process Residue and waste	LDPE/HDPE Bags	
7	NA	Electronic waste	-	KSPCB



				authorized. E-waste handlers
8	35.3	MEE Salt Chemical sludge from Wastewater Treatment	Leak proof Bags	TSDF
9	B2030	Paper waste	LDPE Bags	Authorized Recycler
10	-	Plastic waste	LDPE bags	Authorized recyclers

PART-G

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

Zero Liquid Discharge Facility is operational and there will not be any adverse effect on the Environment Due to our operations.

PART-H

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

- 1. A Full-Fledged Combined Effluent Treatment Plant is in place to take care of entire effluent from process.**
- 2. 300 No's of saplings belonging to to Saraca asoca, Dyspsis lutescens, Prunus dulcis, Caesalpinia pulcherrima, Casuarina equisetifolia, Magnolia champaca, Araucaria Coochii, Wodyetia bifurcate, Galpinia tranvaalica, Melaleuca bracteate, Delonix regia, Pongamia pinnata, Muntingia calabura, Artocarpus heterophyllus, Syzygium cumini, Mangifera indica, Swietenia mahagoni, Azadirachta indica, Eucalyptus, Ficus benghalensis, Musa acuminata, Carica papaya, Phoenix canariensis, Punica granatum, Quercus, Grevillea, robusta, Santalum album, Tectona grandis Linn, Thorn Acacia, Leucaena leucocephala, Sapodilla, etc were planted in the premises.**
- 3. Renewable Energy group captive Power purchase from wind and solar energy and Inhouse solar energy generation helps to carbon Emission reduction.**



PART-I

MISCELLANEOUS:

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

ENCLOSURE:

Annexure-1: ETP Flow scheme.

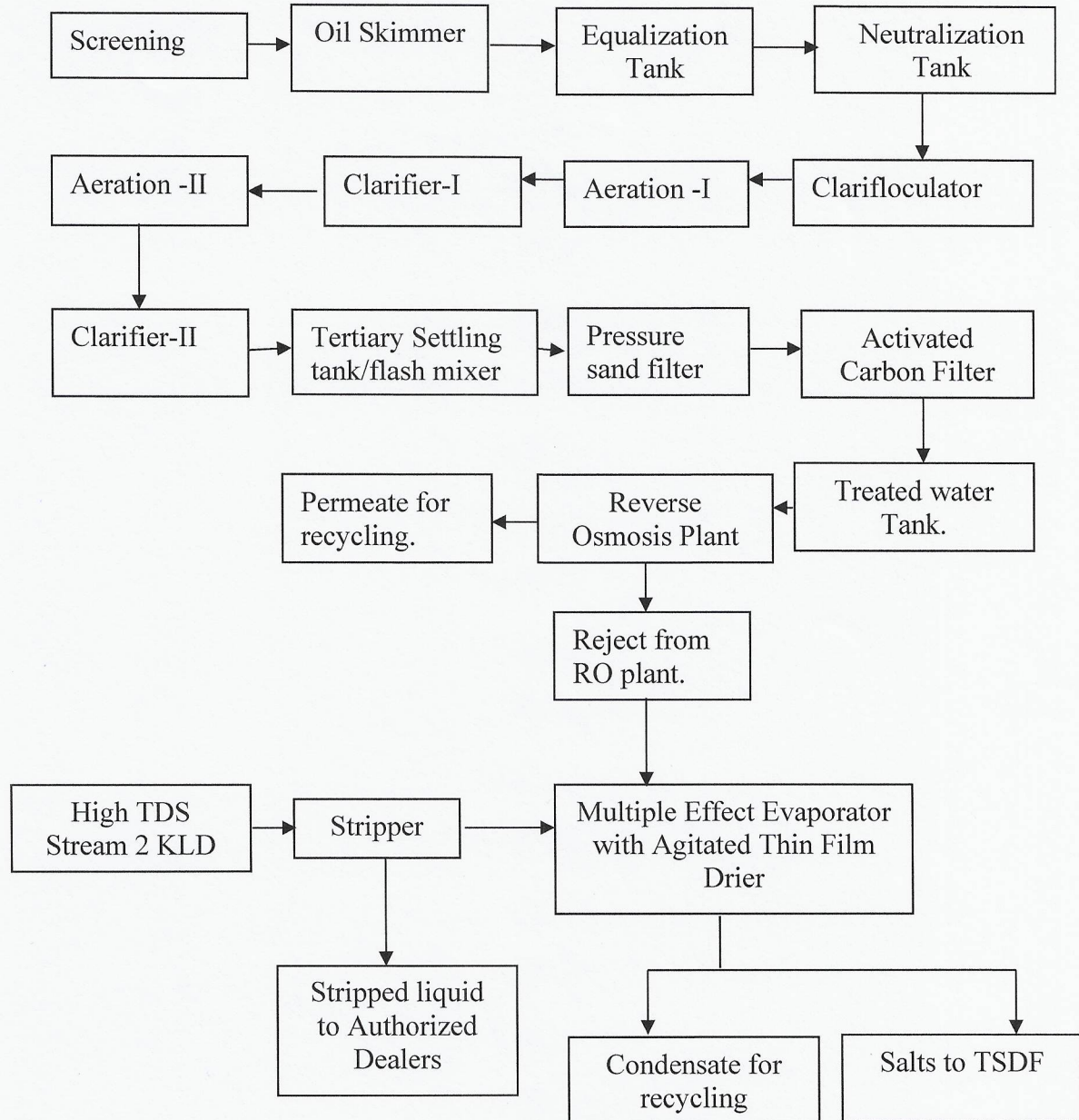
Annexure-2: Product and Raw material list .

Annexure-3: Statistical Interpretation of Ambient air quality and stack monitoring data's

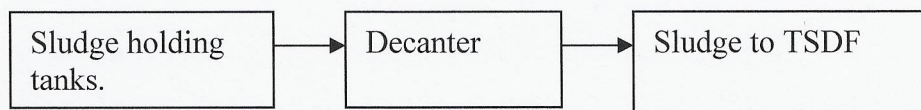
Annexure-4: Water consumption pattern from April 2022 to March 2023



Annexure-1
EFFLUENT TREATMENT PLANT-FLOW SCHEME



Sludge from Clarifloculator and Clarifiers:



Annexure-2 Raw Material Consumption list

Raw Material Consumption list			
1	ACETIC ANHYDRIDE	28.500	KG
2	3-AMINO PHENYL ACETYLENE.	3.790	KG
3	SODIUM SULPHATE ANHYDROUS	14.200	KG
4	3-AMINO PHENYL ACETYLENE.	3.970	KG
5	SODIUM CHLORIDE	5.000	KG
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20	DL TARTARIC ACID	2.250	KG
21	METHANE SULPHONIC ACID(ANHYD) LR GRADE	46.860	KG
22	SORAFENIB BASE.	65.000	KG
23	PARA TOLUENE SULPHONIC ACID	87.5	KG



Annexure -2 Production details

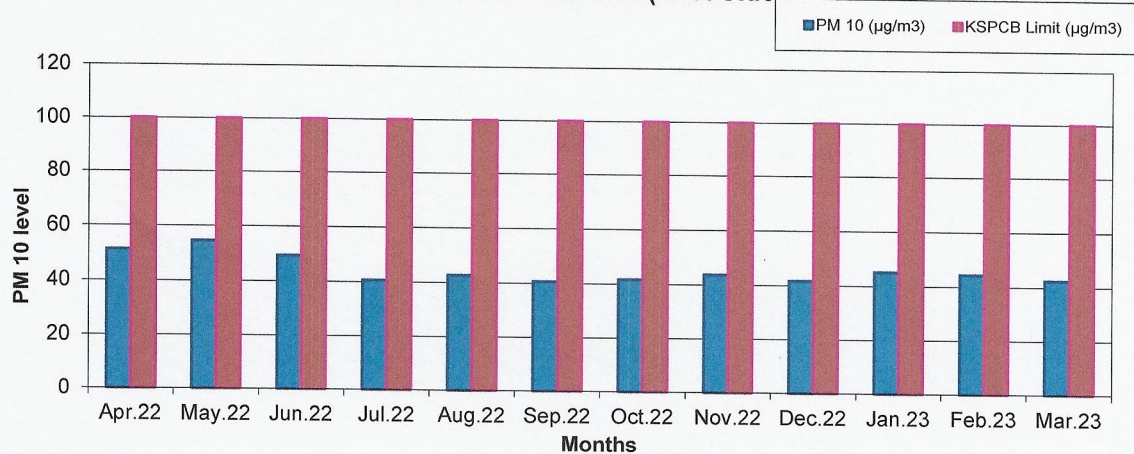
Manufactured Quantity of Products from April 2022 to March 2023	Name Of the product	Qty in Tons
	ABIRATERONE ACETATE	0.050
	DASATINIB	0.016
	ERLOTINIB HYDROCHLORIDE	0.09
	GEFITINIB	0.072
	IBRUTINIB	0.009
	IMATINIB MESYLATE	2.105
	LETROZOLE	0.069
	PAZOPANIB HYDROCHLORIDE	0.136
	POMALIDOMIDE	0.00092
	SORAFENIB TOSYLATE	0.5
	VINBLASTINE SULPHATE	0.001
	VINCRIStINE SULPHATE	0.000175
	R&D Products	0.163
	TOTAL	3.212



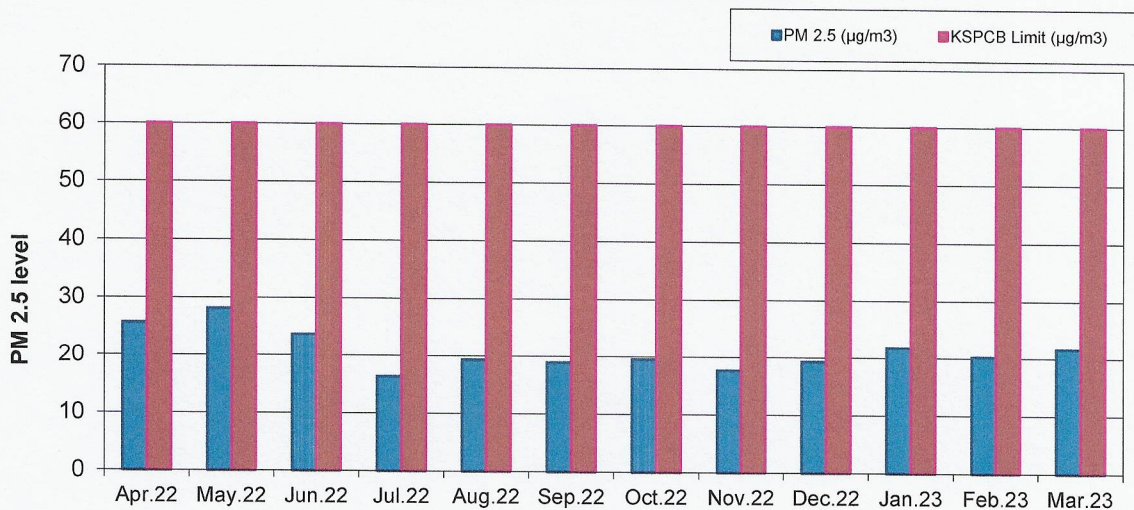
Annexure-3

Statistical interpretation of Ambient air quality, stack emission results with standards stipulated ;

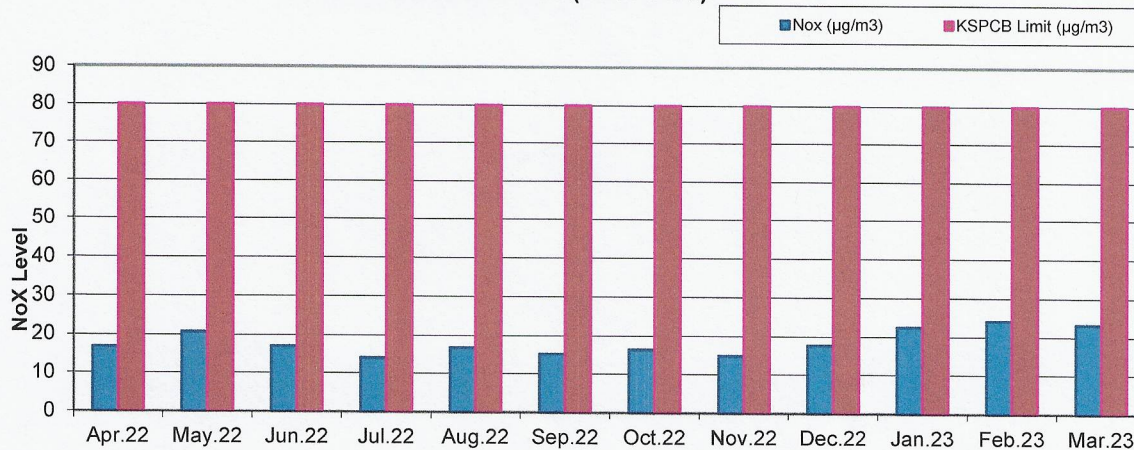
**Fig-1: Variation in PM 10 levels from April 2022 to March 2023
Near Production area (East Side)**



**Fig-2: Variation in PM 2.5 Levels from April 2022 to March 2023
Near Production area(East side)**



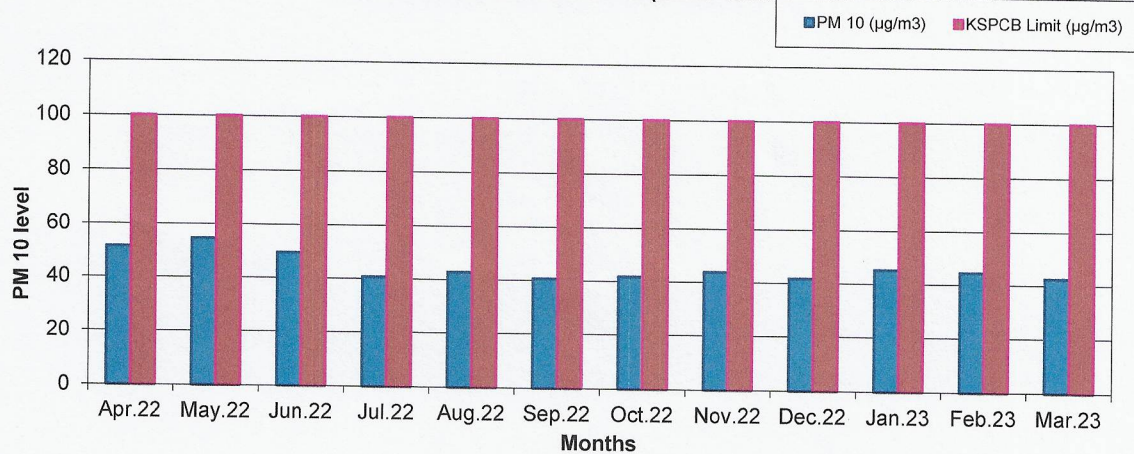
**Fig-3: Variation in NoX levels from April 2022 to March 2023
Near Production area (East Side)**



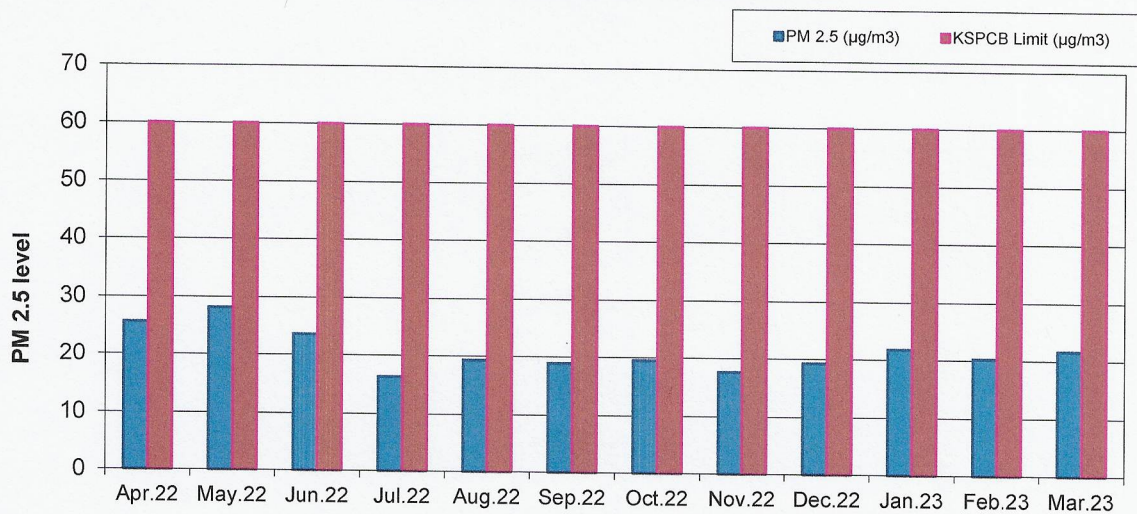
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Statistical interpretation of Ambient air quality, stack emission results with standards stipulated ;

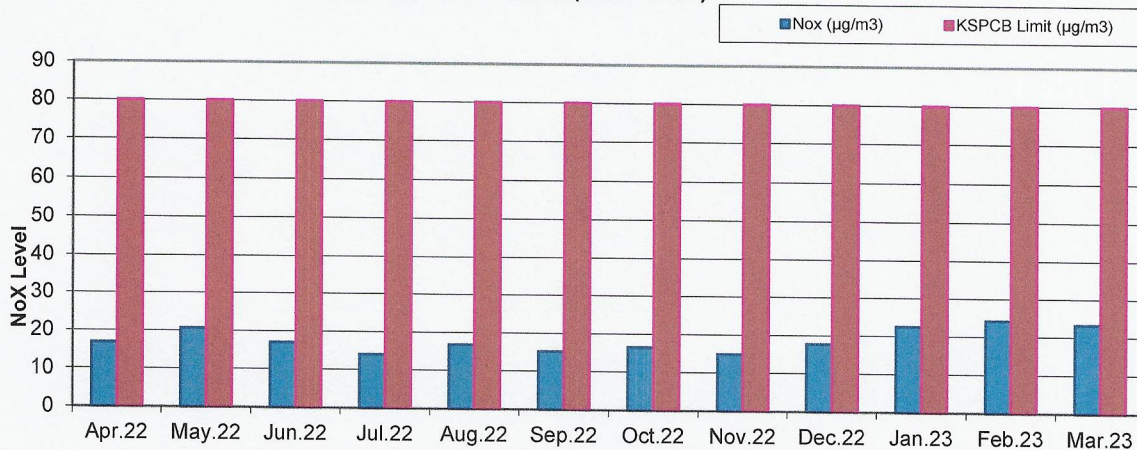
**Fig-1: Variation in PM 10 levels from April 2022 to March 2023
Near Production area (East Side)**



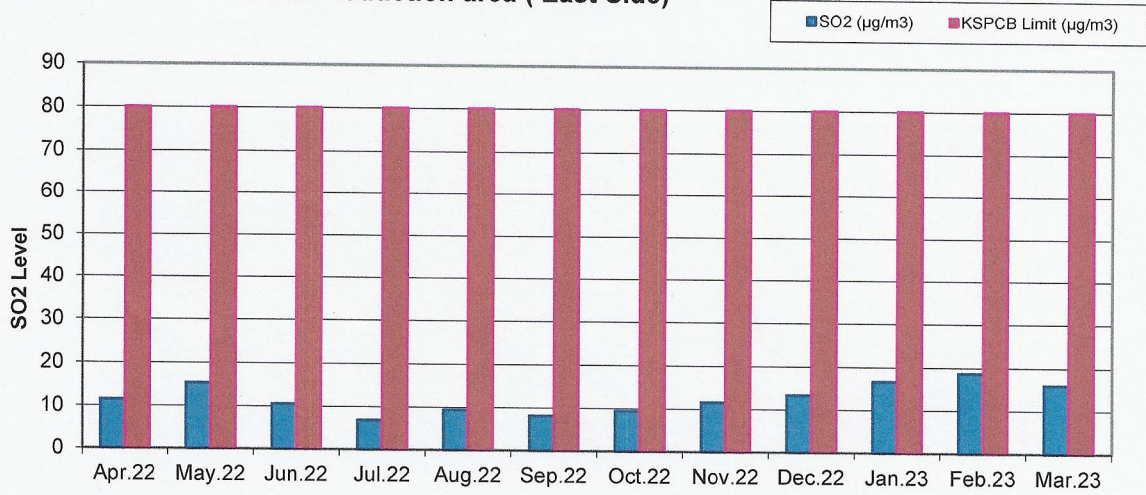
**Fig-2: Variation in PM 2.5 Levels from April 2022 to March 2023
Near Production area (East side)**



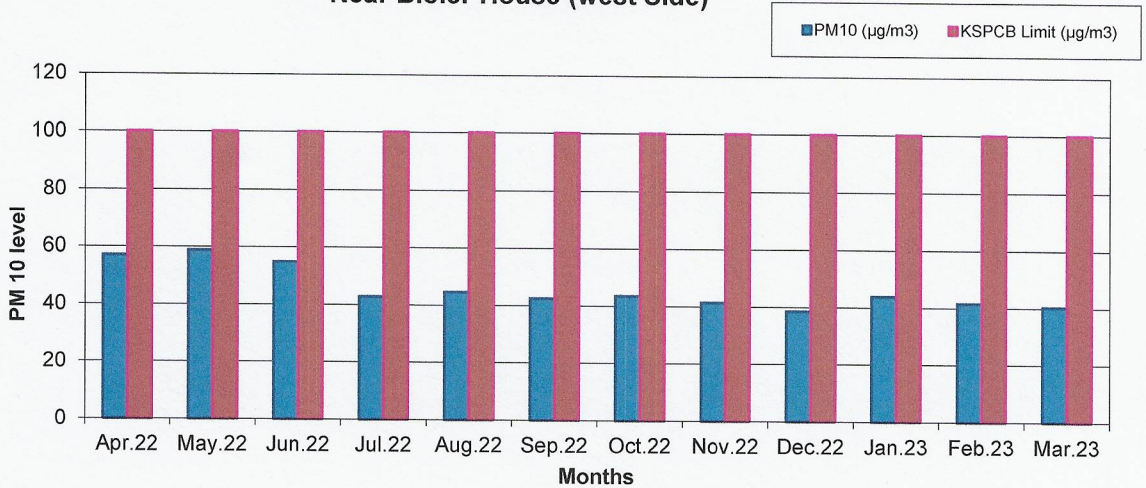
**Fig-3: Variation in NoX levels from April 2022 to March 2023
Near Production area (East Side)**



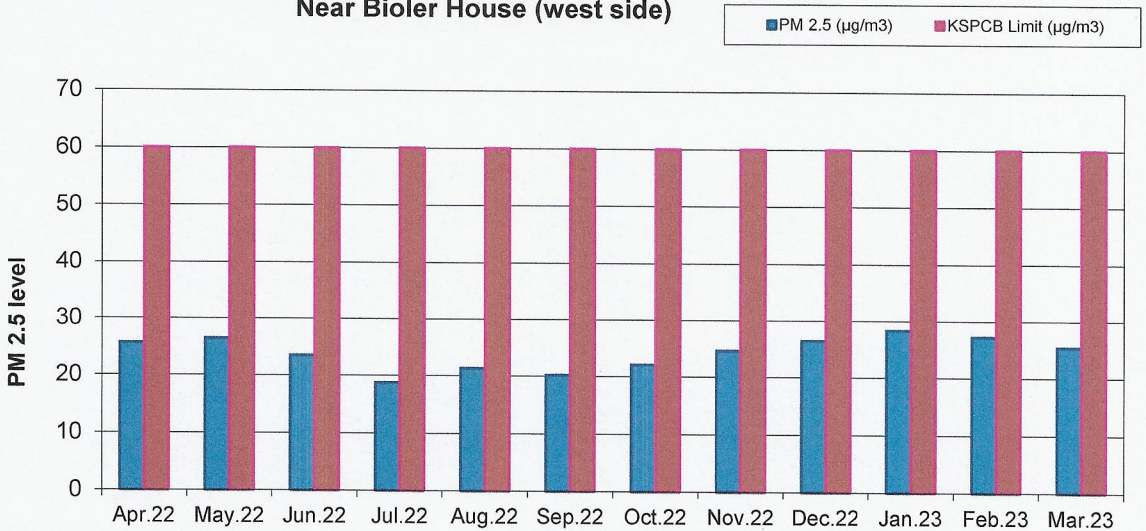
**Fig-4: Variation in SO₂ levels April 2022 to March 2023
Near Production area (East Side)**



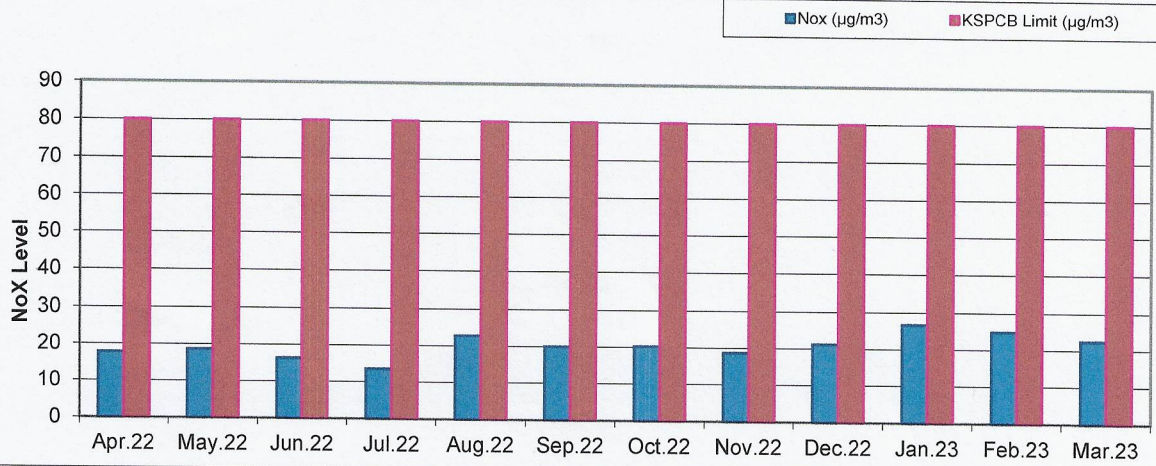
**Fig-1: Variation in PM 10 levels from April 2022 to March 2023
Near Bioler House (west Side)**



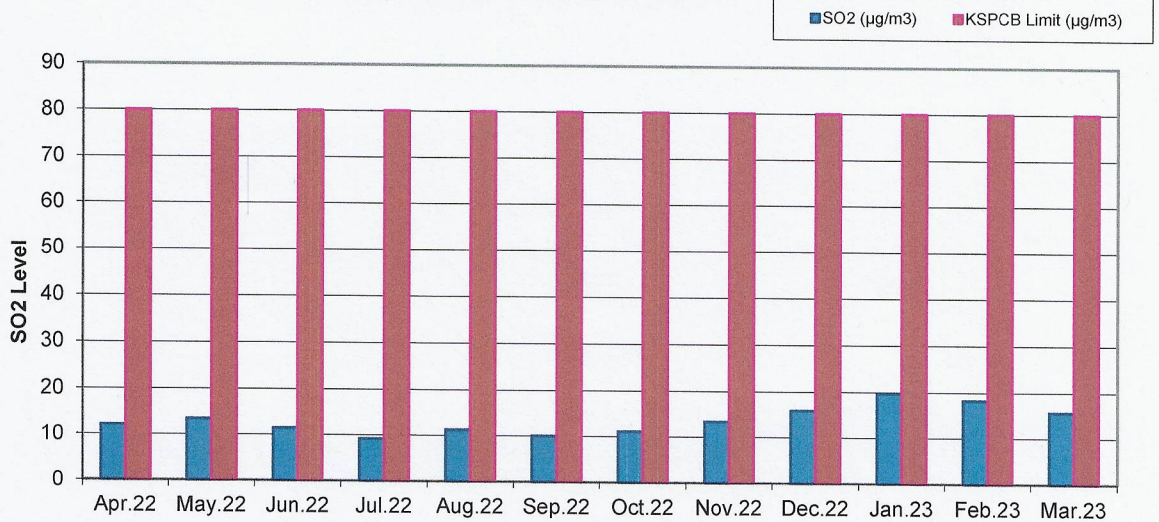
**Fig-2: Variation in PM 2.5 Levels from April 2022 to March 2023
Near Bioler House (west side)**



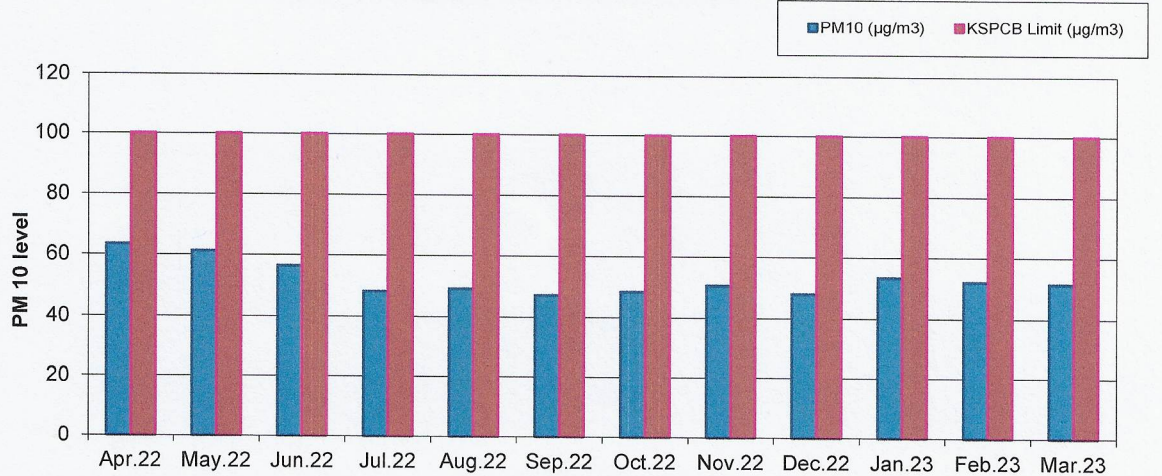
**Fig-3: Variation in NoX levels from April 2022 to March 2023
Near Bioler House (West Side)**



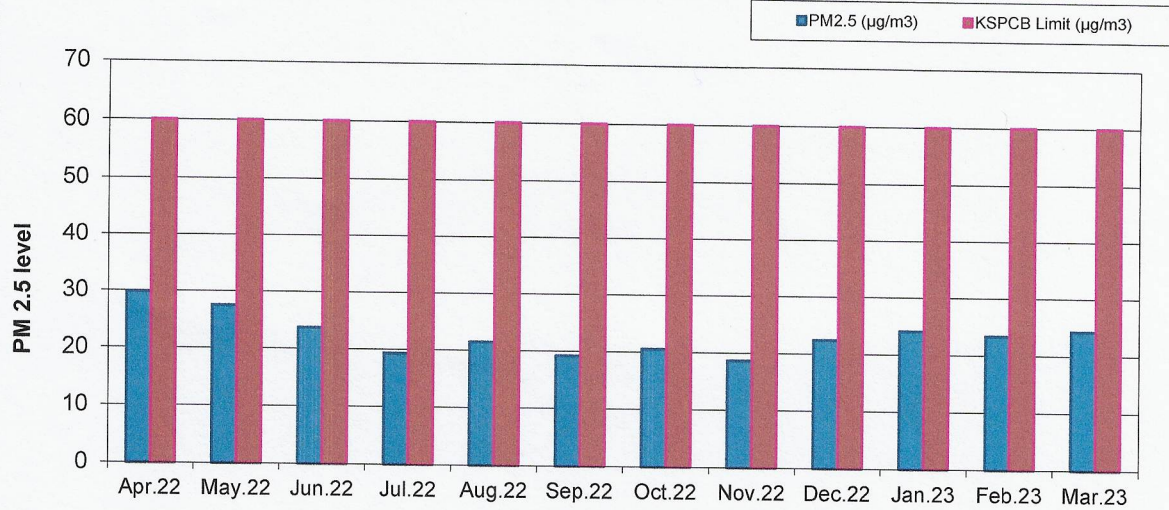
**Fig-4: Variation in SO2 levels from April 2022 to March 2023
Near Bioler House (West Side)**



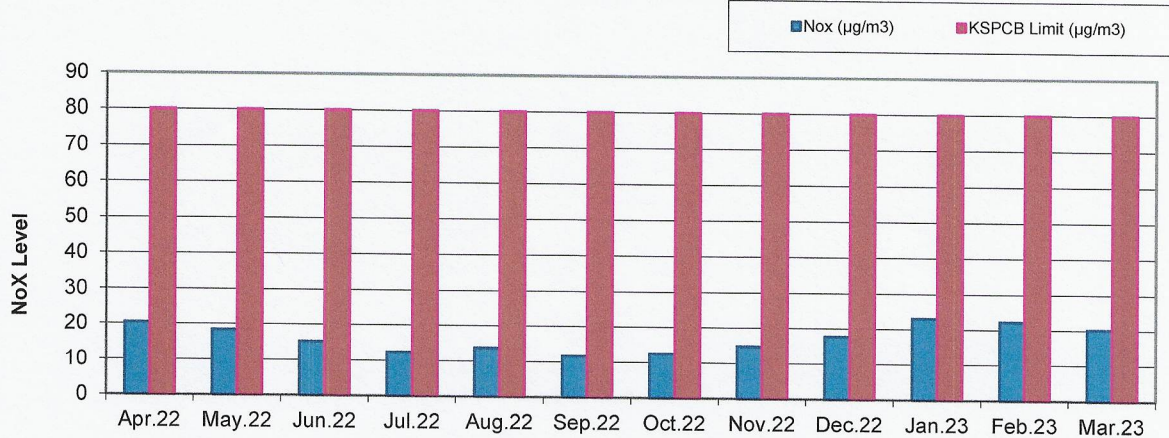
**Fig-1: Variation in PM 10 levels from April 2022 to March 2023
Near Materail Security Gate (South Side)**



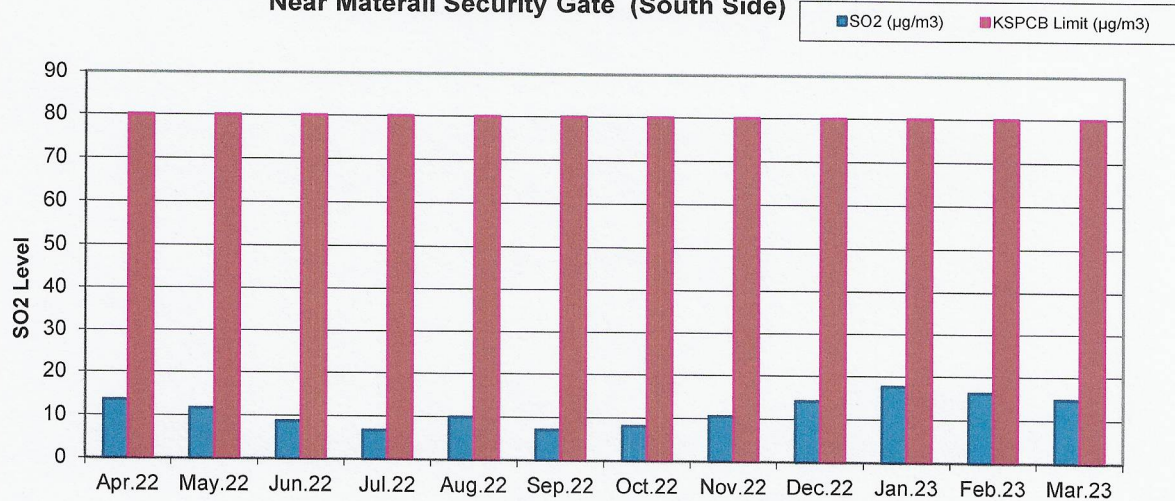
**Fig-2: Variation in PM 2.5 Levels from April 2022 to March 2023
Near Materail Security Gate (South side)**



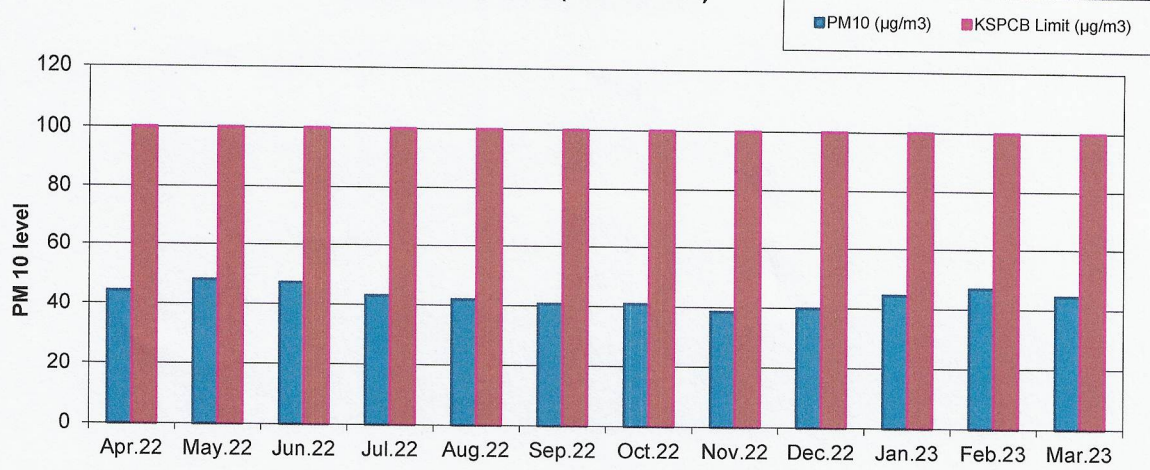
**Fig-3: Variation in NoX levels from April 2022 to March 2023
Near Materail Security Gate (South Side)**



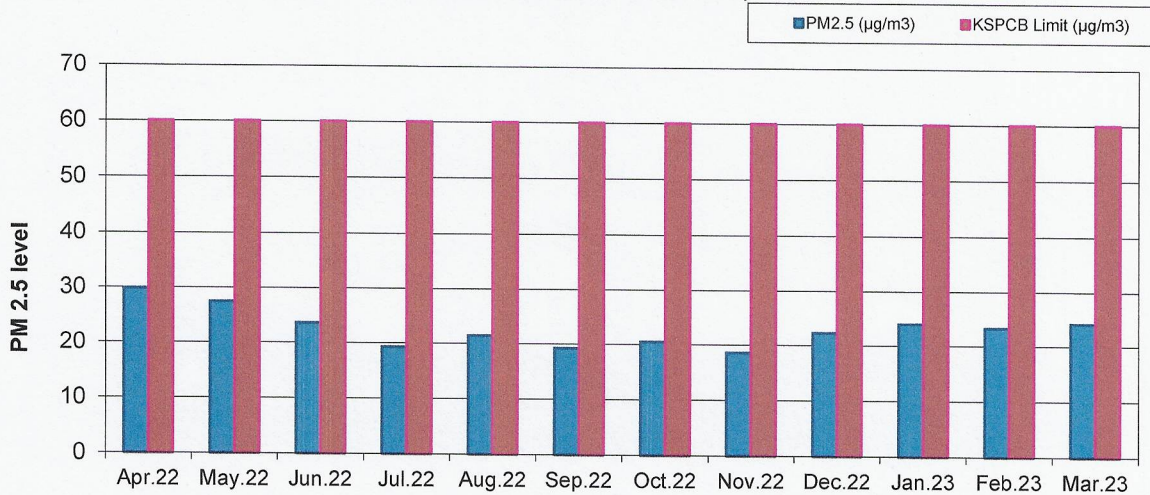
**Fig-4: Variation in SO2 levels from April 2022 to March 2023
Near Materail Security Gate (South Side)**



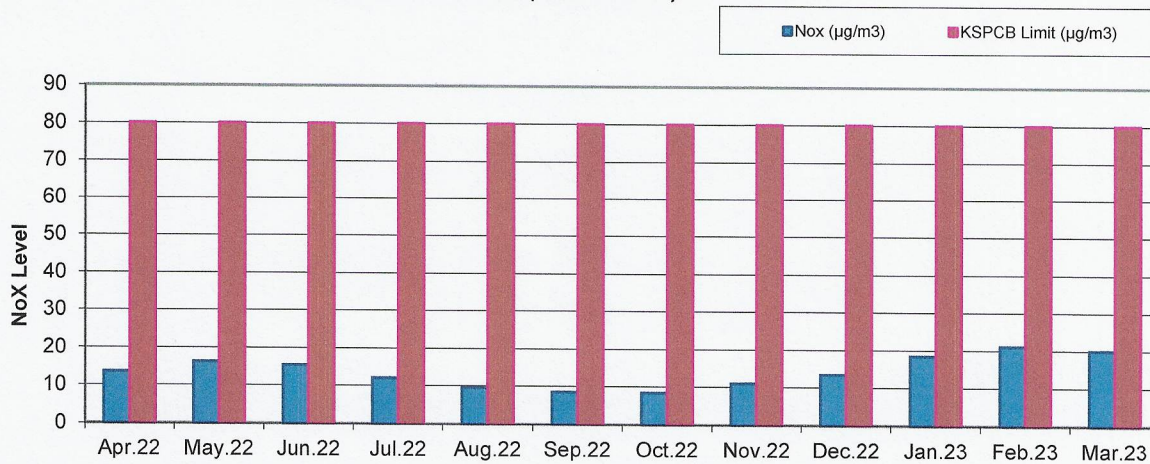
**Fig-1: Variation in PM 10 levels from April 2022 to March 2023
Near ETP Area (North Side)**



**Fig-2: Variation in PM 2.5 Levels from April 2022 to March 2023
Near ETP Area (North side)**



**Fig-3: Variation in NoX levels from April 2022 to March 2023
Near ETP Area (North Side)**



**Fig-4: Variation in SO₂ levels from April 2022 to March 2023
Near ETP Area (North Side)**

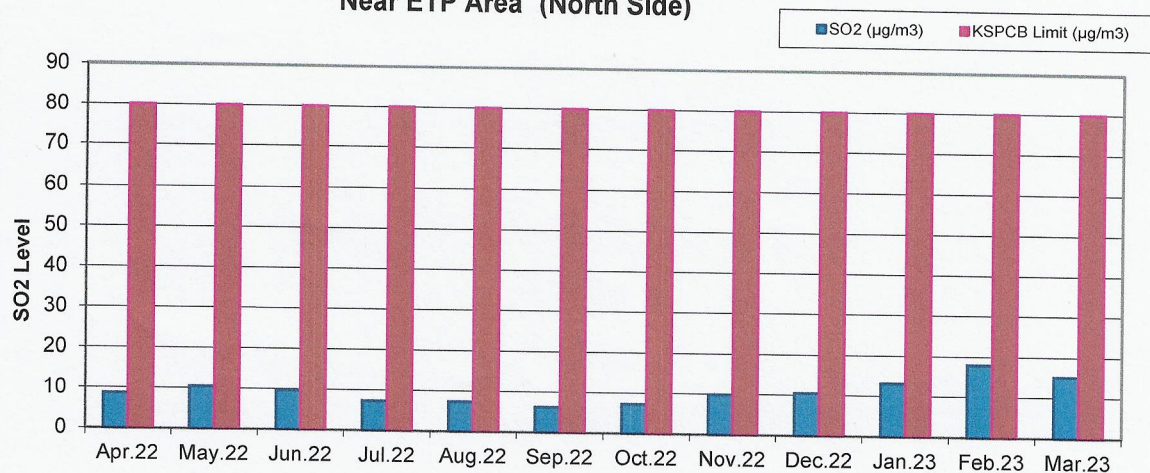


Fig-01: Variation in emission of Particulate matter Levels of stack attached to Boiler from April 2022 to March 2023

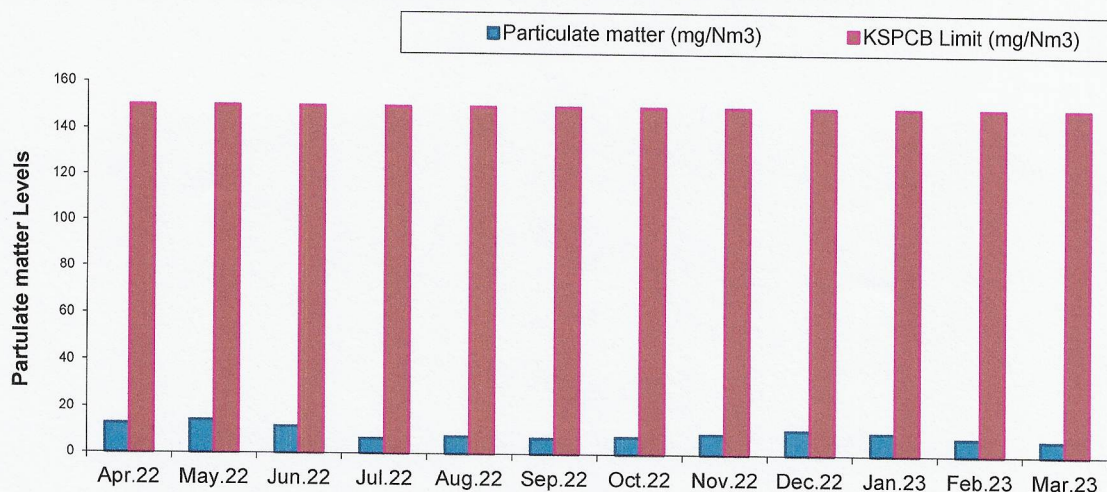


Fig-02: Variation in emission of SO₂ Levels of stack attached to Boiler from April 2022 to March 2023

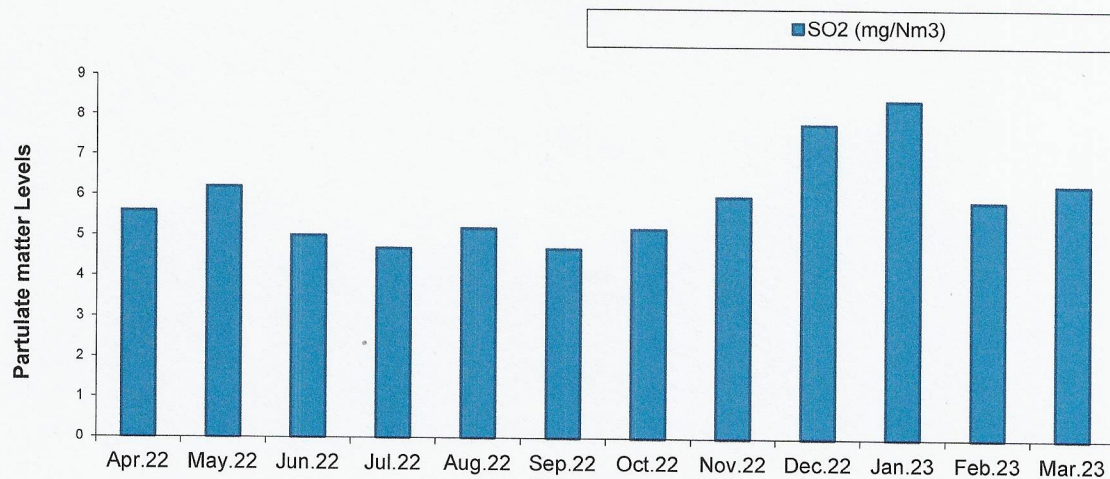


Fig-03: Variation in emission of Particulate matter Levels of stack attached to DG set (1500KVA) from April 2022 to March 2023

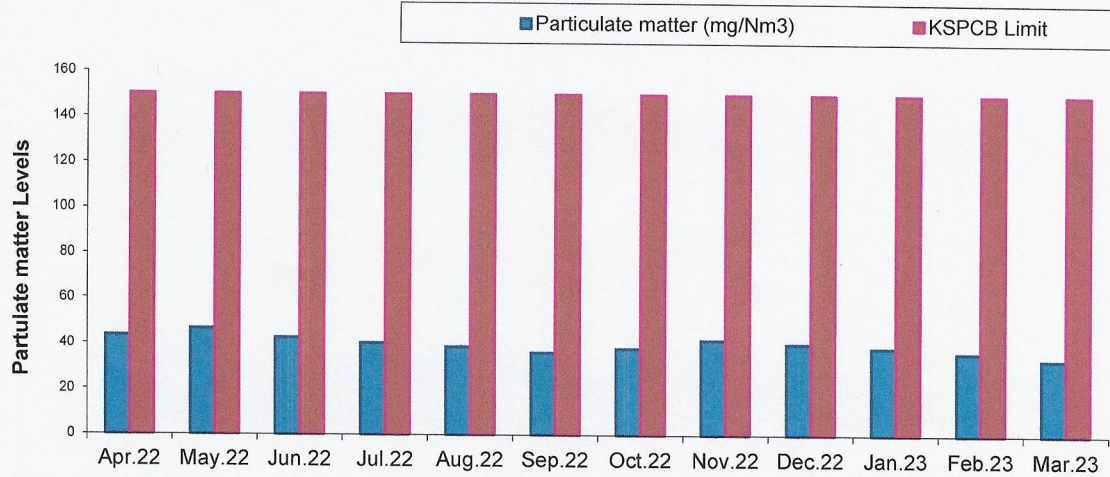


Fig-01: Variation in emission of Nox Levels of stack attached to DG set (1500KVA) from April 2022 to March 2023

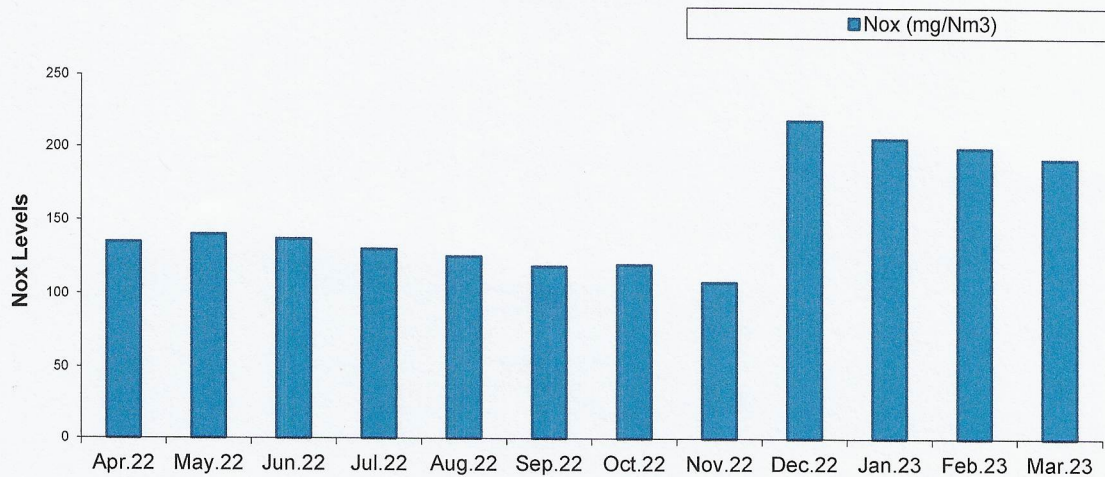


Fig-01: Variation in emission of SO2 Levels of stack attached to DG set (1500KVA) from April 2022 to March 2023

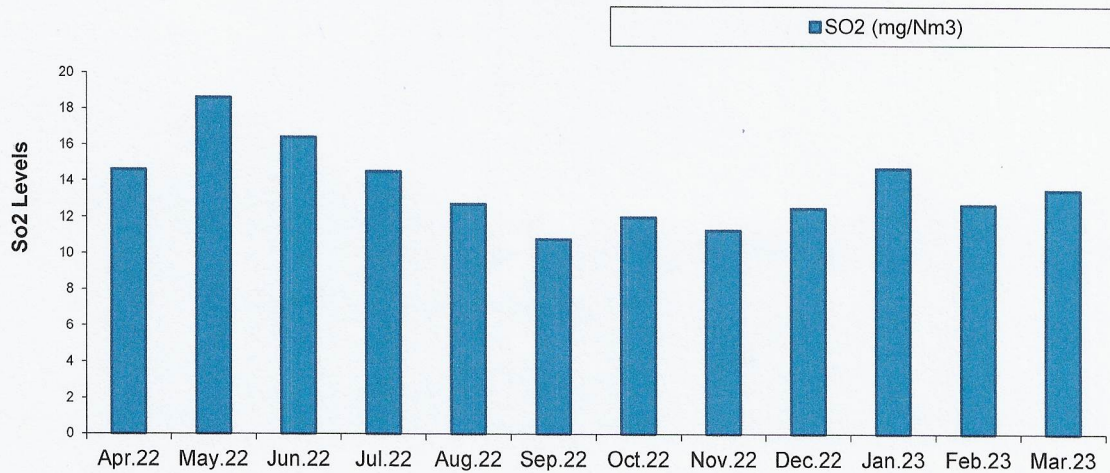


Fig-01: Variation in emission of Acid mist in stack attached to Scrubber 201 from April 2022 to March 2023

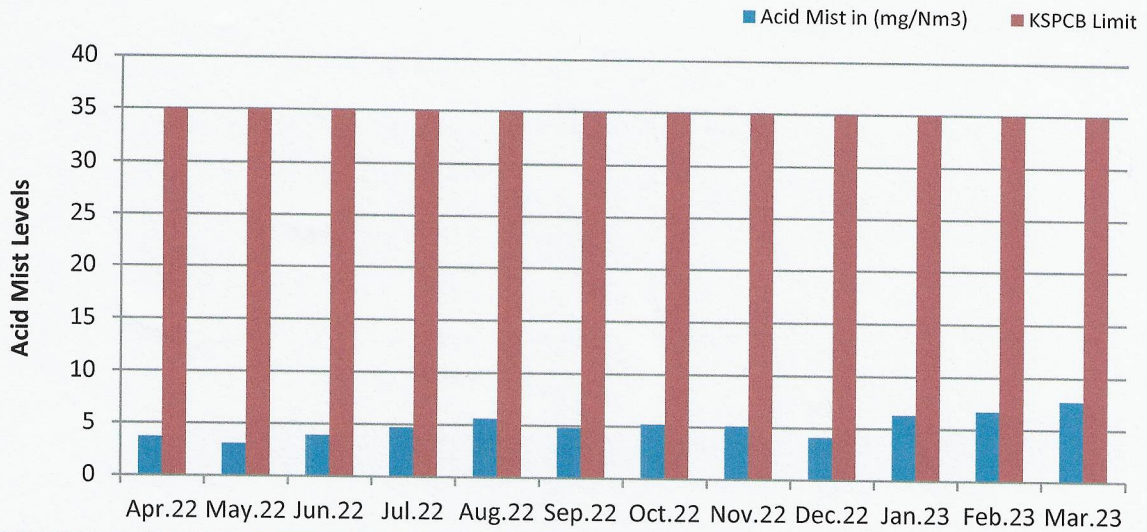


Fig-02: Variation in emission of Acid mist in stack attached to Scrubber (SCB-202) from April 2022 to March 2023

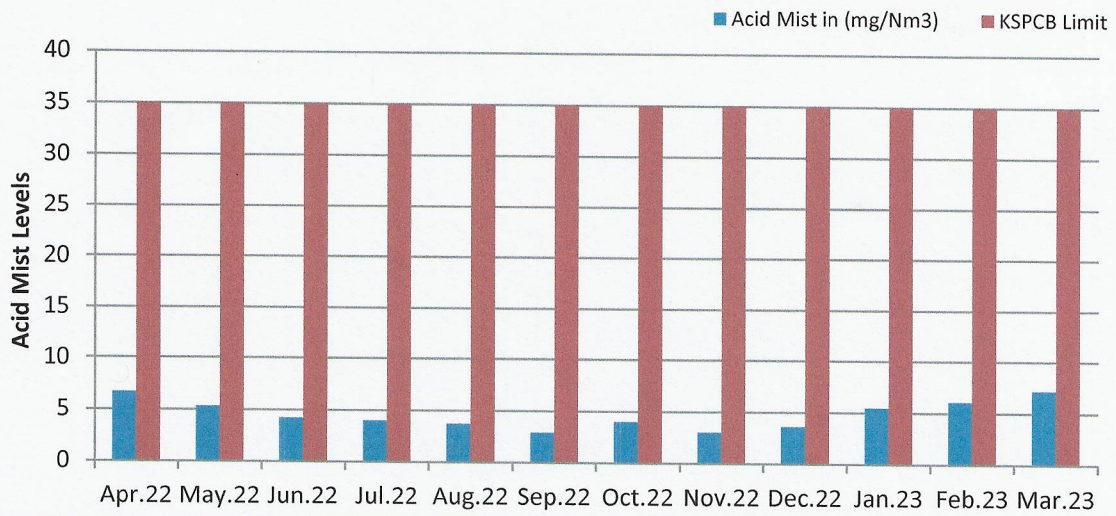


Fig-03: Variation in emission of Acid mist in stack attached to Scrubber (SCB-203) from April 2022 to March 2023

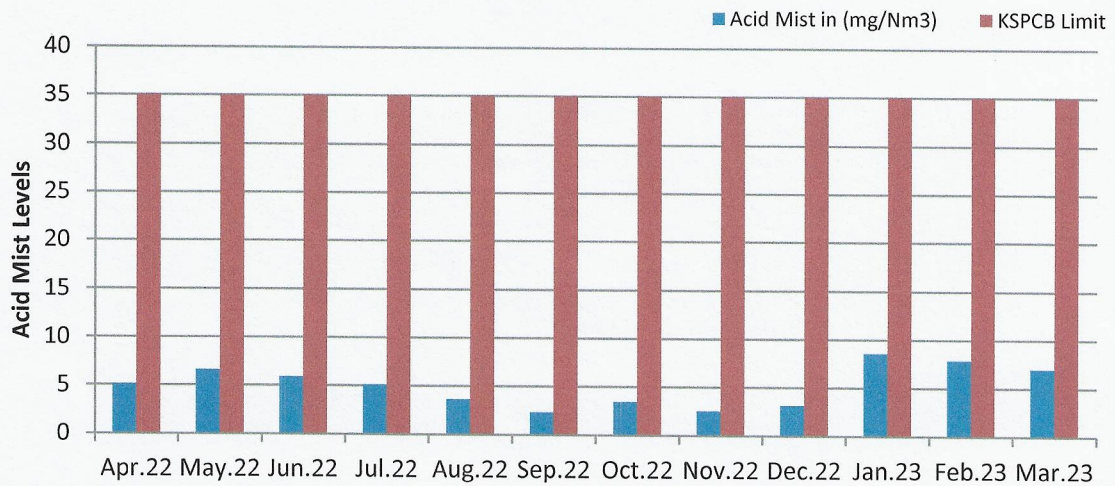


Fig-04: Variation in emission of Acid mist in stack attached to Scrubber (SCB-204) from April 2022 to March 2023

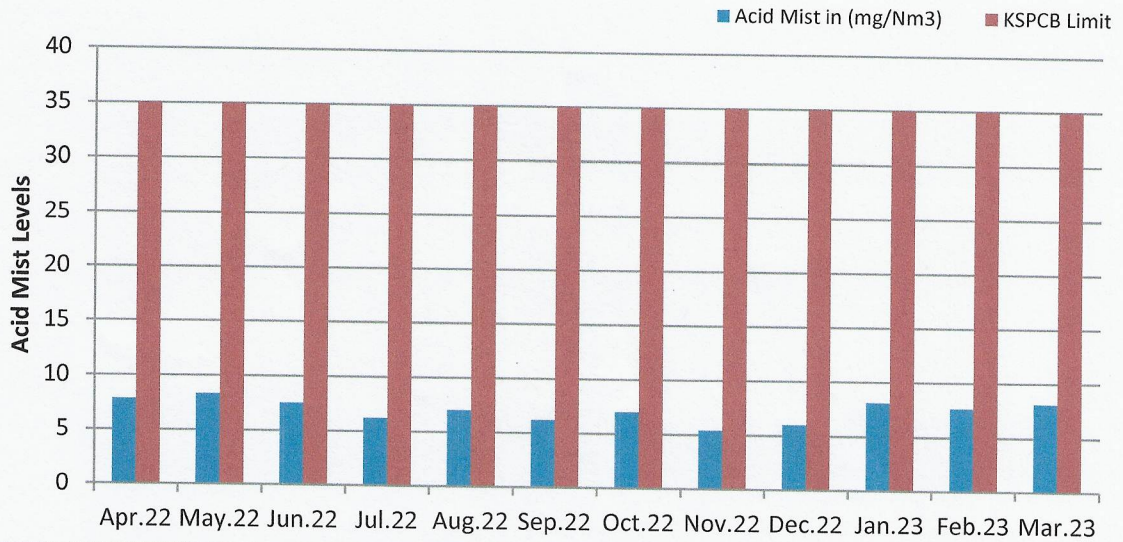


Fig-05: Variation in emission of Acid mist in stack attached to Scrubber (205) from April 2022 to March 2023

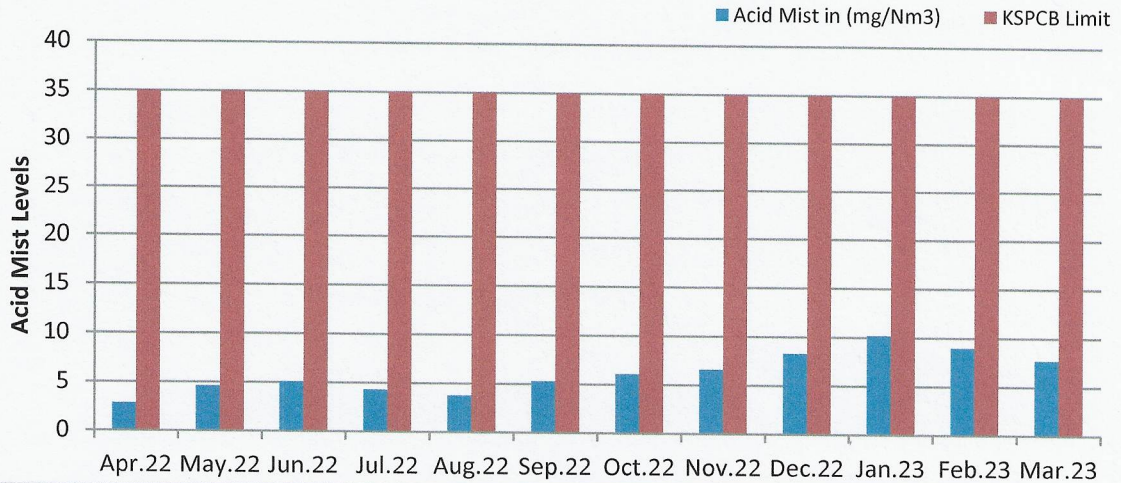
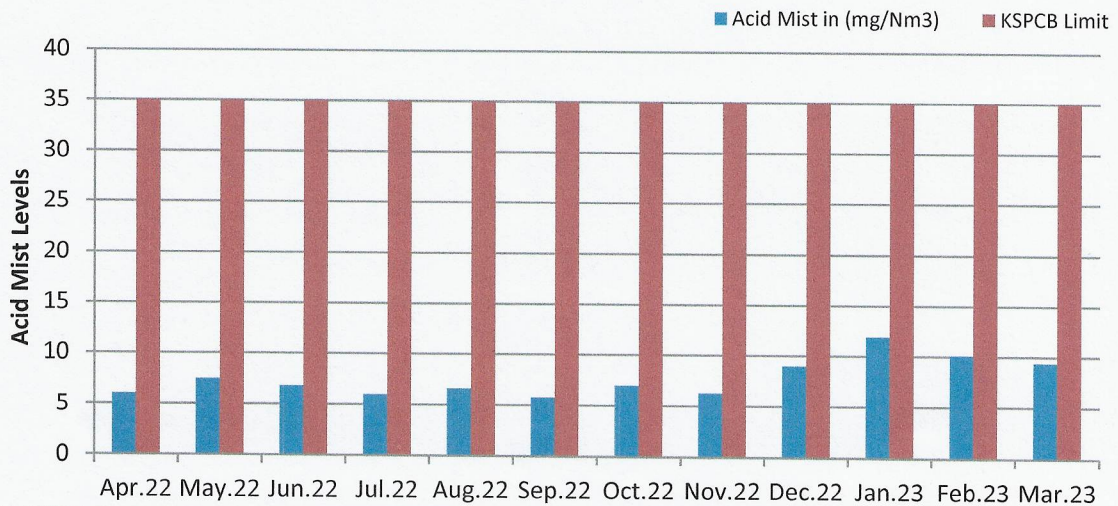
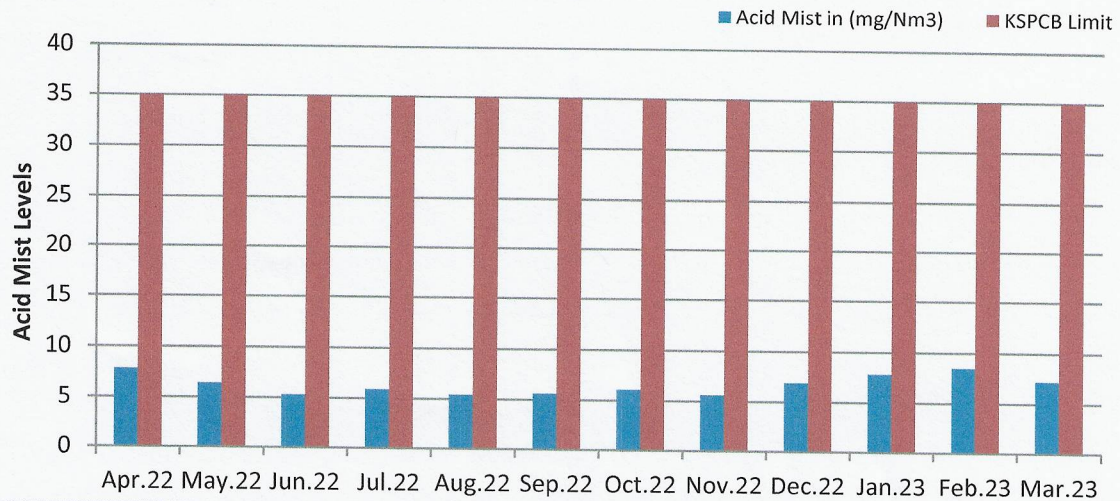


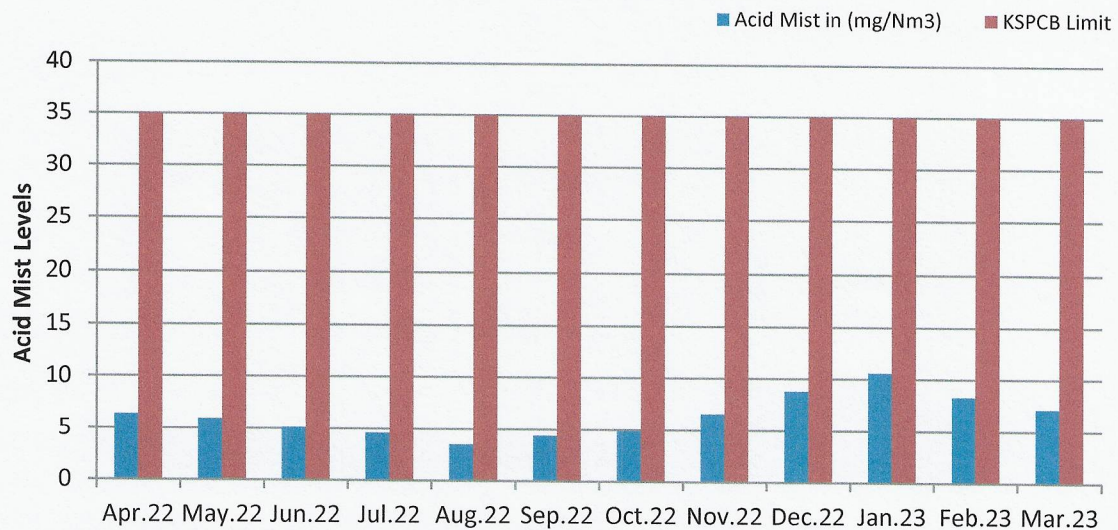
Fig-06: Variation in emission of Acid mist in stack attached to Scrubber (206) from April 2022 to March 2023



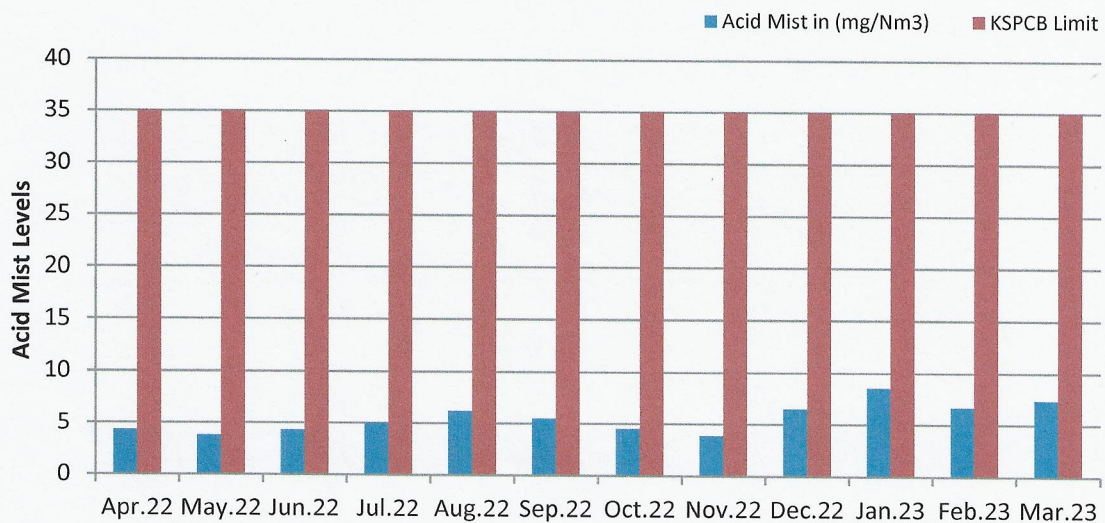
**Fig-07: Variation in emission of Acid mist in stack attached to Scrubber (207)
from April 2022 to March 2023**



**Fig-08: Variation in emission of Acid mist in stack attached to Scrubber (SCB-101)
from April 2022 to March 2023**



**Fig-09: Variation in emission of Acid mist in stack attached to Scrubber (SCB-17)
from April 2022 to March 2023**



Annexure-4
Water consumption Details

