



Cipla

No: CIP/PCB/2025/09/03

Date: 29.09.2025

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

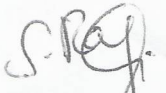
Dear Sir,

Subject: Submission of Environmental Statement in Form V for the year 2024-2025

We are herewith submitting Environmental statement in Form V under Environment (Protection) Act 1986 [Rule (14)] for the Year 2024-25 (April 2024 to March 2025).

Kindly accept and acknowledge the receipt of the same.

Thanking you
Sincerely Yours
For Cipla Limited


S. Rajamani
(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)
2024-25**

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

GENERAL INFORMATION

1	A) Name of the Industry :	CIPLA LIMITED
	Address :	Plot No.285,286 & 287, 4 th 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 – 81.06 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 :	279
7	Current Approvals :	Factory License: MYB-15789 Pollution Control Board CFO (Water & Air), Authorization for Hazardous Waste Storage & disposal
	Water Consent :	AW336079 dated 07.02.2023 & valid up to 30.06.2026
	Air Consent :	
	Hazardous waste authorization :	328940 dated 29.12.2021 & valid up to 30.06.2026



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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 a strength of about 279 employees, which are in the management category. The 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”.

The 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 evaporation and agitated thin film drier. (Refer Annexure-1 for Effluent treatment scheme).

Products and Raw material list enclosed (Refer Annexure- 2 for Water usage for Production)



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-2024 to March-2025 enclosed to this statement.



ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)

Environmental Statement for the financial year ending with 31st March 2025

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 81.06 MT/A**

IV. Year of establishment: **July 2007**

V. Date of the last environmental statement submitted: **30.09.2024**

PART. B

Water and Raw Material Consumption:

I. Water consumption in m3/d

- **Process: 4.59 KLD**
- **Cooling: 34 KLD**
- **Domestic: 19.22 KLD**



ANNEXURE-02

Water Consumption per unit of Product			
Sl.No.	Product	During the Previous financial Year	During the Current financial year
		Process water consumption per unit of product output	Process water consumption per unit of product output
1	ABIRATERONE ACETATE	44015.4	69081.994
2	DASATINIB	489.1	0
3	ENZALUTAMIDE	0	0
4	ETOPOSIDE	2718.9	0
5	GEFITINIB	5892.8	12519.2
6	IBRUTINIB	4.1	8.00275
7	IMATINIB MESYLATE	0	0
8	LENALIDOMIDE	0	0
9	LETROZOLE	17394.8	4358.25
10	NILOTINIB	0	274.68
11	POMALIDOMIDE	19666.3	5285.4046
12	SORAFENIB TOSYLATE	0	0
13	VINCRIStINE SULPHATE	256.4	601.244

Name of the Raw materials	Name of Product	Consumption of Raw material Per unit of output	
		During the Previous financial Year	During the Current financial year
ABIRATERONE	ABIRATERONE ACETATE	454.2	712.939
LIQUOR AMMONIA 25%		333.5	523.501
ACETIC ANHYDRIDE		198.3	311.249
ACETONITRILE		5684.6	8921.927
TRIETHYLAMINE		181.7	285.176
METHYLENE CHLORIDE		8332.2	13077.345
ACTIVATED CHARCOAL COMMERCIAL		51.9	81.479
ALUMINA NEUTRAL		136.3	213.882
SCAVENGER CARBON TYPE 2S		92.4	144.951
4 DIMETHYL AMINO PYRIDINE		7.8	12.222
SODIUM HYDROSULPHITE		227.1	356.470
ACETONE	ENZALUTAMIDE	0	1823.00
HYDROCHLORIC ACID - CP		0	364.60
METHANOL		0	16880.98
DIMETHYL FORMAMIDE		0	1458.40

ETHYL ACETATE		0	16115.32
ISOPROPYL ALCOHOL		0	19943.62
SODIUM CHLORIDE		0	729.20
ENZ-ISO THIOCYANATO COMPOUND		0	1750.08
ENZ CYANOAMIDE		0	729.20
GFT A		105.2	223.557
SODIUM HYDROXIDE FLAKES		23.4	49.630
POTASSIUM CARBONATE POWDER		90.1	191.365
ACTIVATED CHARCOAL COMMERCIAL		31.6	67.067
TOLUENE		2104.6	4471.143
DIMETHYL FORMAMIDE		1631.0	3465.136
METHANOL		1999.3	4247.586
4-(3-CHLOROPROPYL) MORPHOLINE		56.0	118.932
DIMETHYL FORMAMIDE		318.7	622.045
IBRUTINIB		0.2	0.487
METHANOL		138.5	270.455
TOLUENE		1039.1	2028.409
ACETONE		484.9	946.591
ETHYL ACETATE		692.7	1352.273
METHYLENE CHLORIDE		969.8	1893.182
CITRIC ACID (ANHYDROUS)		5.0	9.736
CYCLOHEXANE		110.8	216.364
ACRYLOYL CHLORIDE		12.8	25.044
Potassium carbonate		35.7	69.615
SODIUM CHLORIDE		99.8	194.727
SODIUM BICARBONATE COMMERCIAL GRADE		24.9	48.682
PIPERIDINE PYRAZOLO PYRIMIDINE		49.9	97.364
METHANE SULPHONIC ACID(ANHYD) LR GRADE		163.2	300.83
ISOPROPYL ALCOHOL		18877.6	34800.82
IMT-3		839.0	10517.58
LN NITRO COMPOUND		180.7	105.461
AMMONIUM FORMATE		197.1	115.027
PD ON CARBON 10% W/W/WET(RECOVERED)TYPE		18.1	10.546
PD ON CARBON 10% WET TYPE C-10210/A1		18.1	10.546
N-METHYL 2-PYRROLIDONE		1897.8	1107.337
Methanol LR Grade		2349.6	1370.989
LTR-02		181.9	45.576
ACTIVATED CHARCOAL COMMERCIAL		72.8	18.231
POTASSIUM TERTIARY BUTOXIDE		349.3	87.507
DIMETHYL FORMAMIDE (AR GRADE)		3883.7	973.058

DIMETHYL FORMAMIDE		3883.7	973.058
HYDROCHLORIC ACID - CP		236.5	59.249
METHANOL		15393.8	3856.909
LTR-02		181.9	45.576
4-FLUROBENZONITRILE		131.0	32.815
NTB AMINE	NILOTINIB	71.0	11.031
NTB ACID		90.7	14.083
THIONYL CHLORIDE		80.5	12.502
N-METHYL 2-PYRROLIDONE		1018.3	158.116
LIQUOR AMMONIA 25%		106.6	16.547
HYDROCHLORIC ACID (LR GRADE)		59.2	9.193
METHANOL		4736.4	735.422
ACETONE		6630.9	1029.590
POM NITRO	POMALIDOMIDE	4.3	1.15
PD ON CARBON 10% W/W/WET(RECOVERED)TYPE		0.4	0.115
HYFLO SUPERCEL		3.7	1.0005
DIMETHYL FORMAMIDE		70.1	18.8485
TRIETHYLAMINE		3.9	1.035
FORMIC ACID (98-100%)		6.4	1.725
HYDROCHLORIC ACID - CP		91.1	24.495
ACETONE		84.3	22.655
SORAFENIB STAGE - 3	SORAFENIB TOSYLATE	219.6	272.217
ACTIVATED CHARCOAL COMMERCIAL		20.1	24.945
HYFLO SUPERCEL		95.8	118.786
PARA TOLUENE SULPHONIC ACID		143.7	178.179
ACETONE		3792.3	4701.935
HYDROCHLORIC ACID - CP		56.8	70.480
ETHYL ACETATE		10957.8	13586.116
DIMETHYL FORMAMIDE		2395.1	2969.643
ACTIVATED CHARCOAL COMMERCIAL		26.8	33.260
SODIUM BICARBONATE		79.8	98.988
SRF-METHYL CARBOXAMIDE		159.7	197.976
ETHANOL 99.9%		11.7	27.361
SULPHURIC ACID AR GRADE	VINCRISTINE SULPHATE	0.0	0.088
METHANOL HPLC GRADE		14.0	32.833
VINCRISTINE SULPHATE STAGE-I		0.2	0.547

**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	mg/NM3	Limits	kg/day	% (Below permissible limit)
PM ₁₀	44.85	100.00	0.000070	55.150
PM _{2.5}	16.68	60.00	0.000028	72.200
SO ₂	7.68	80.00	0.000015	90.400
Lead	-	1.00	0.000000	100.000
NOX	16.1	80.00	0.000028	79.875
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
	mg/NM3	Limits	kg/day	% (Below Permissible limit)
PM ₁₀	45.75	100.00	0.000078	54.250
PM _{2.5}	18.93	60.00	0.000032	68.450
SO ₂	8.26	80.00	0.000017	89.675
Lead	-	1.00	0.000000	100.000
NOX	17.52	80.00	0.000031	78.100
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
	mg/NM3	Limits	kg/day	% (Below Permissible limit)
PM ₁₀	38.16	100.00	0.000069	61.840
PM _{2.5}	18.32	60.00	0.000029	69.467
SO ₂	7.99	80.00	0.000015	90.013
Lead	-	1.00	0.000000	100.000
NOX	16.10	80.00	0.000027	79.875
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
	mg/NM3	Limits	kg/day	% (Below permissible limit)
PM ₁₀	43.95	100.00	0.000070	54.740
PM _{2.5}	17.93	60.00	0.000028	72.150
SO ₂	9.71	80.00	0.000015	90.200
Lead	-	1.00	0.000000	100.000
NOX	17.46	80.00	0.000028	79.125
Quantity of Air in m3/Min			1.1	
Total run minutes			1440	
Total Volume			1584	

Stack Emission – Boiler 2.0 TPH					
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	15.04	150.00	1.7276		89.973
SO2	8.76	80.00	1.0063		89.050
Nox	18.78	80.00	2.1572		76.525
Flue gas discharged flow nm3/hr.				4786.22	
Total flue gas discharged per day				114869.28	

Stack Emission – Boiler 1.5 TPH					
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	14.05	150.00	1.6139		90.633
SO2	7.89	80.00	0.9063		90.138
Nox	13.51	80.00	1.5519		83.113
Flue gas discharged flow nm3/hr.				4272.11	
Total flue gas discharged per day				102530.64	

Stack Emission - DG Set (1500 KVA)					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
SPM	26.00	150.00	2.9866		82.667
SO2	13.30	80.00	1.5278		83.375
Nox	171.67	710.00	19.7196		75.821
CO	60.73	150.00	6.9760		59.513
NMHC	26.17	100.00	3.0061		73.830
Flue gas discharged flow nm3/hr.				2504.66	
Total flue gas discharged per day				60111.84	

Stack Emission - DG Set (500 KVA)

Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
SPM	33.43	150.00	3.8401		77.713
SO2	14.06	80.00	1.6151		82.425
Nox	41.13	710.00	4.7246		94.207
CO	47.70	150.00	5.4793		68.200
NMHC	23.17	100.00	2.6615		76.830
Flue gas discharged flow nm3/hr.				2594.26	
Total flue gas discharged per day				62262.24	

Stack Emission - Scrubber System-1

Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	6.35	35.00	0.4483		81.857
PM	25.19	150.00	1.7782		83.207
SO2	10.79	80.00	0.7617		86.513
Nox	26.63	80.00	1.8799		66.713
H2S	BDL	10.00	BDL		-
Flue gas discharged flow nm3/hr.				2941.34	
Total flue gas discharged per day				70592.16	

Stack Emission - Scrubber System-2

Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	7.40	35.00	0.1950		78.857
PM	22.45	150.00	0.5915		85.033
SO2	11.05	80.00	0.2912		86.188
Nox	27.21	80.00	0.7169		65.988
H2S	BDL	10.00	BDL		-
Flue gas discharged flow nm3/hr.				1097.86	
Total flue gas discharged per day				26348.64	

Stack Emission - Scrubber System-3					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	6.08	35.00	0.0933		82.629
PM	26.93	150.00	0.4133		82.047
SO2	9.78	80.00	0.1501		87.775
Nox	21.47	80.00	0.3295		73.163
H2S	BDL	10.00	BDL		-
Flue gas discharged flow nm3/hr.				639.44	
Total flue gas discharged per day				15346.56	

Stack Emission - Scrubber System-4					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	6.78	35.00	0.1105		80.629
PM	23.95	150.00	0.3903		84.033
SO2	10.61	80.00	0.1729		86.738
Nox	26.26	80.00	0.4279		67.175
H2S	BDL	10.00	BDL		-
Flue gas discharged flow nm3/hr.				679.01	
Total flue gas discharged per day				16296.24	

Stack Emission - Scrubber System-5					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	5.85	35.00	0.2788		83.286
PM	18.37	150.00	0.8755		87.753
SO2	10.62	80.00	0.5061		86.725
Nox	27.34	80.00	1.3030		65.825
H2S	BDL	10.00	BDL		-
Flue gas discharged flow nm3/hr.				1985.79	
Total flue gas discharged per day				47658.96	

Stack Emission - Scrubber System-6					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	6.03	35.00	0.1602		82.771
PM	21.87	150.00	0.5809		85.420
SO2	10.38	80.00	0.2757		87.025
Nox	23.68	80.00	0.6290		70.400
H2S	BDL	10.00	BDL		0.0.
Flue gas discharged flow nm3/hr.			1106.76		
Total flue gas discharged per day			26562.24		

Stack Emission - Scrubber System-7					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	6.13	35.00	0.1648		82.486
PM	26.38	150.00	0.7093		82.413
SO2	9.50	80.00	0.2554		88.125
Nox	27.03	80.00	0.7268		66.213
H2S	BDL	10.00	BDL		-
Flue gas discharged flow nm3/hr.			1134.2		
Total flue gas discharged per day			27220.8		

Stack Emission - Scrubber System-8					
Parameters	mg/NM3	Limits	kg/day		% (Below permissible limit)
Acid Mist	6.46	35.00	0.1758		81.543
PM	22.96	150.00	0.6250		84.693
SO2	10.91	80.00	0.2970		86.363
Nox	22.76	80.00	0.6195		71.550
H2S	BDL	10.00	BDL		-
Flue gas discharged flow nm3/hr.			1134.2		
Total flue gas discharged per day			27220.8		

Stack Emission-Scrubber System-9					
Parameters	mg/NM3	Limits	kg/day		%(Below permissible limit)
Acid Mist	7.40	35.00	0.1950		78.857
PM	22.45	150.00	0.5915		85.033
SO2	11.05	80.00	0.2912		86.188
Nox	27.21	80.00	0.7169		65.988
H2S	BDL	10.00	BDL		-
Flue gas discharged flow nm3/hr				1097.86	
Total flue gas discharged per day				26348.64	

- These are the Average values for the monitoring done on the month of April-2024 to March-2025.
- Environment monitoring done through NABL/MOEF Laboratory.

PART-D
HAZARDOUS WASTES

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

Hazardous Wastes	Total Disposal Quantity (MT)			
	During the previous financial year		During the current financial year	
1. From Process	Used oil (Ltrs)	1.0 KL	Used oil (Ltrs)	0.7 KL
	Oil-soaked Cotton Waste	0.08 MT	Oil-soaked Cotton Waste	0.32 MT
	Distillation residue	6.50 MT	Distillation residue	4.50 MT
	Process Residue	28.68 MT	Process Residue	43.864 MT
	Spent organic solvent	320.25 MT	Spent organic solvent	477.713 MT
	Date of Expired Products	0.15 MT	Date of Expired Products	0.0 MT
	Off-Specification Products	0.15 MT	Off-Specification Products	0.0 MT
	Discarded containers contaminated with HW/chemicals	3.5186 MT	Discarded containers contaminated with HW/chemicals	4.7732 MT
2. Pollution Control Facilities	Chemical sludge from Wastewater Treatment	11.17 MT	Chemical sludge from Wastewater Treatment	15.8 MT
	MEE salts	5.50 MT	MEE salts	12.19 MT

**PART -E
SOLID WASTES**

	Total Disposal Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From process	1. Recyclable Fiber Drums – 956 No's 2. Plastic waste- 4062.2 Kgs 3. Paper waste – 146705 Kgs	1. Recyclable Fiber Drums – 1093 No's 2. Plastic waste- 5832.65Kgs 3. Paper waste – 13,448 Kgs
b. From Pollution Control Facility	--	--
c. Quantity recycled or re- Utilized within the unit.	Nil	Nil

PART – F

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

Sr. No	Category number	Waste description	Collected in	Disposal option
1	28.6	Spent solvents/ recovered organic solvents	Tankers/MS drums	KSPCB authorized recyclers
2	5.1	Used oil	MS/PVC Drums	CPCB & KSPCB authorized Re Processors
3	5.2	Oil-soaked cotton waste	Leak proof bags	CPCB & KSPCB authorized Incinerator
4	33.1	Discarded containers (MS drums/HDPE Drums/ barrels/carboys)	-	authorized recyclers
5	20.3	Distillation Residue	MS Drums	CPCB & KSPCB authorized Incinerator
6	28.1	Process Residue and waste	LDPE/HDPE Bags	
7	28.4	Off-Specification Products	LDPE/HDPE Bags	CPCB & KSPCB authorized Incinerator

8	28.5	Date of Expired Products	LDPE/HDPE Bags	CPCB & KSPCB authorized Incinerator
9	31.1	Electronic waste	-	KSPCB authorized. E-waste handlers
10	35.3	Salts from evaporator Chemical sludge from Wastewater Treatment	Leak proof Bags	TSDF
11	-	Paper waste	LDPE Bags	Authorized Recycler
12	-	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.

- **The company being practicing several natural resources programs like;**
 1. As part of our digitalization programme, we have installed flow meters integrated with IOT technology to effectively monitor water consumption (portable, raw water & recycle water)
 2. 95% of solar & wind power purchase from Group captive to reduce the carbon emissions. (Scope-2)
 3. Motion sensors installed in plant to reduce energy consumption & GHG emission (Scope-2)
 4. Auto blowdown system in PNG Boiler.
 5. As a part of Greenery development, 250 saplings were planted & distributed on World environment day 05th June,2024.

PART-H

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

Sr.No.	Particulars of the investment on environment/Audits	Gross block value Rs.(In Lakhs)
1.	Recertification audit ISO:14001 & ISO:45000	0.75
2.	RO Refurbishment	31.27
3.	Miyawaki Forest Development	0.75
4.	Maintenance & fabrication work ETP-ZLD	5.0
5.	Flow meters integrated with IoT Tech	6.0
6.	Continuous Ambient Air Quality Monitoring System (CAAQMS)	51.0
	Total	94.77

1. Environmental awareness & training programmes are being conducted for all the employees to minimize wastage & consumption of water.
2. The effluent analysis & air emission checks are carried out every month and submitted to the board as per consent conditions & parameters are within the limits.

PART-I

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

1. Environment Management system (ISO 14001:2015) & Occupational Health and safety assessment system (ISO 45001:2018) implemented & recertified.
2. 95% of renewable energy used for the manufacturing operations.

ENCLOSURE:

Annexure-1: ETP Flow scheme

Annexure-2: Products & Raw Material List

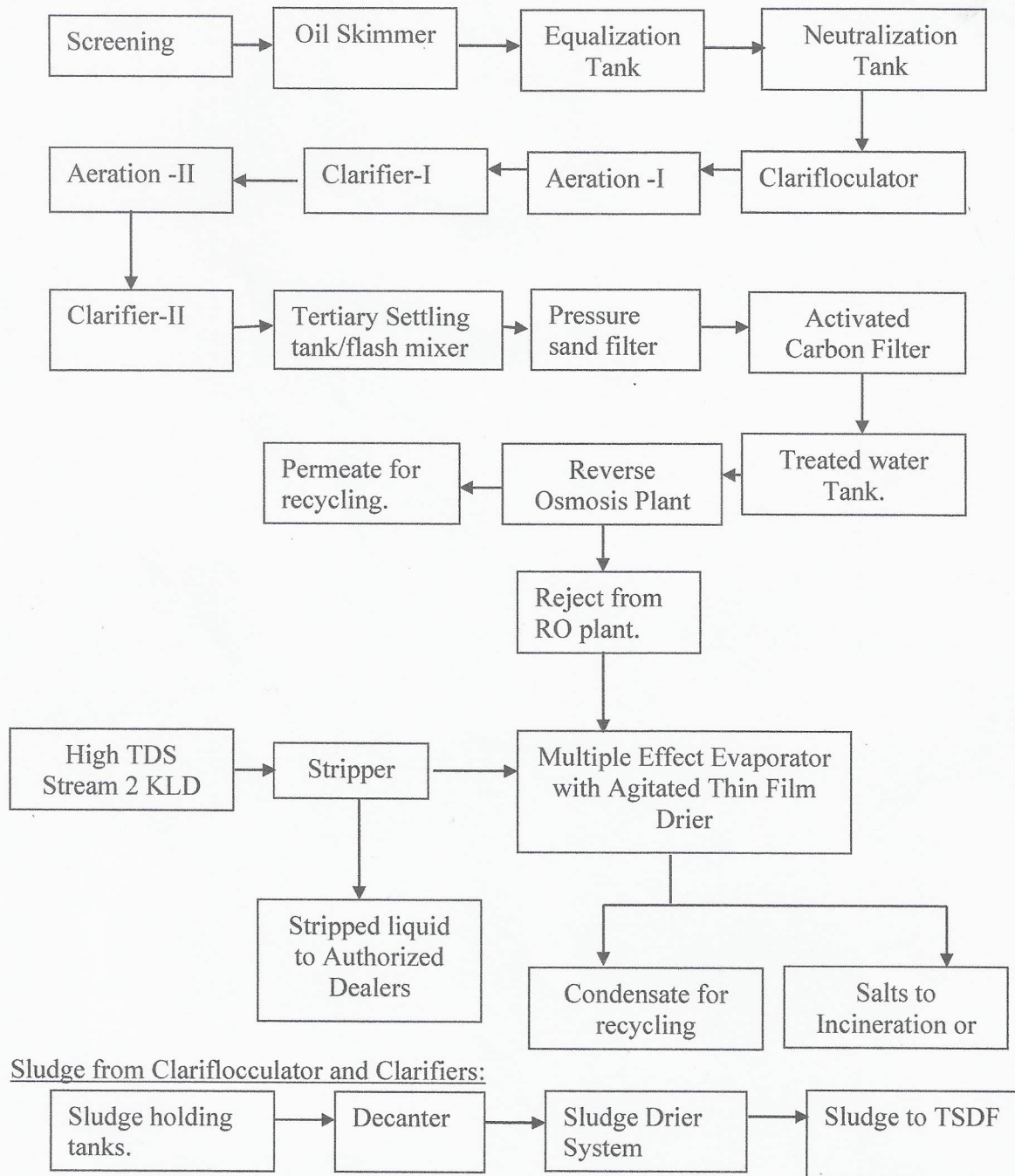
Annexure-3: Statistical Interpretation of Ambient air quality and stack monitoring data

Annexure-4: Water consumption pattern from April 2024 to March 2025



Annexure-1

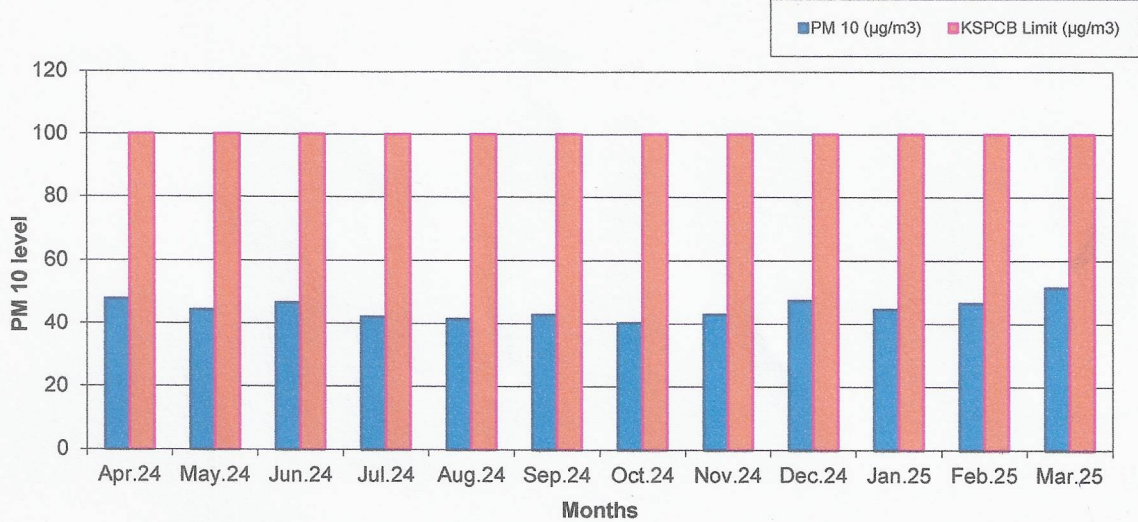
EFFLUENT TREATMENT PLANT-FLOW SCHEME



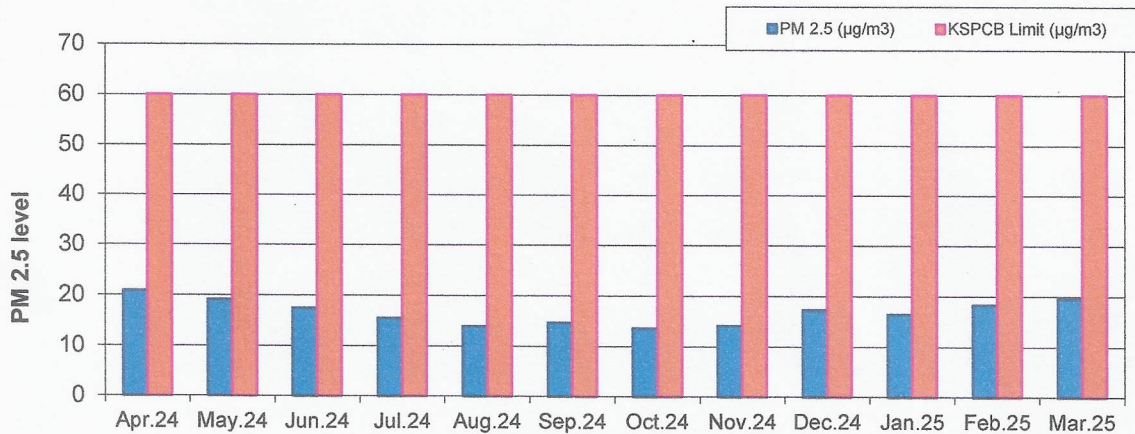
Annexure-3

Statistical Interpretation of Ambient air quality and stack monitoring data

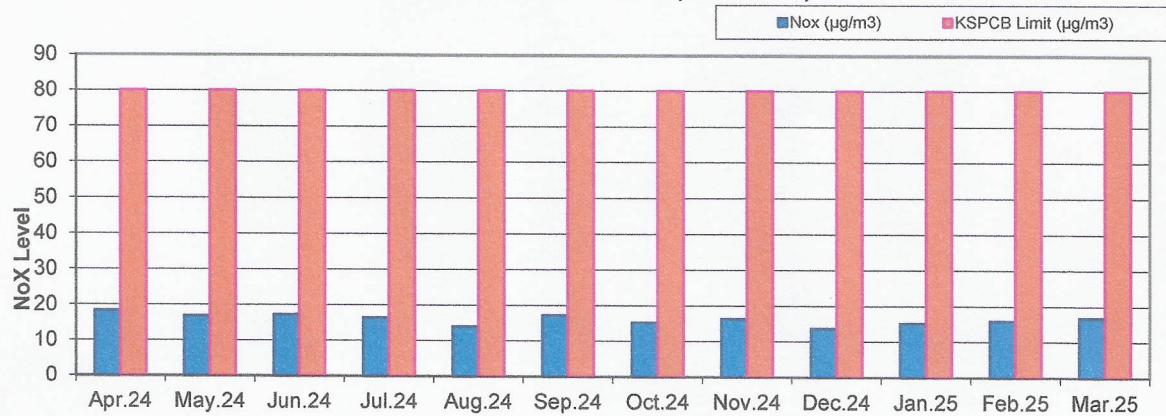
**Fig-1: Variation in PM 10 levels from April 2024 to March 2025
Near Production area (East Side)**



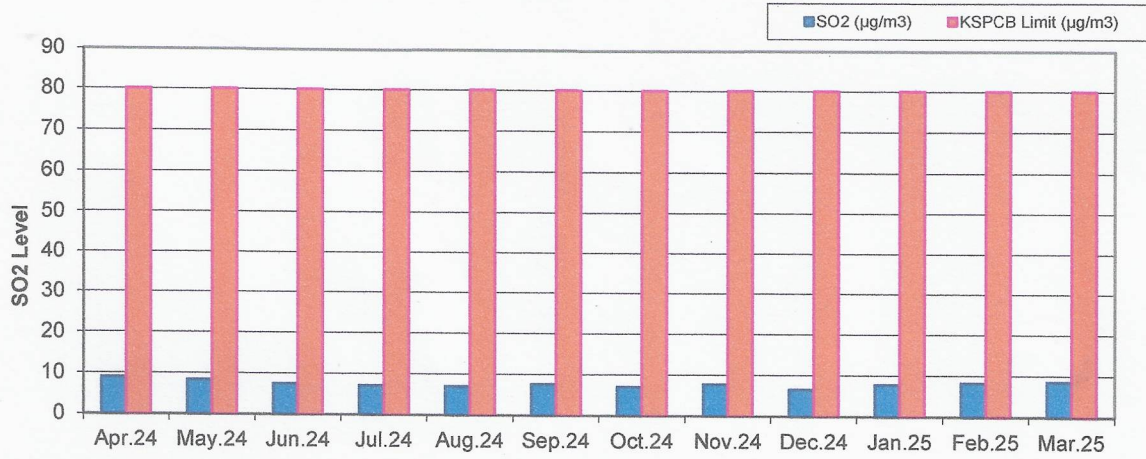
**Fig-2: Variation in PM 2.5 Levels from April 2024 to March 2025
Near Production area (East side)**



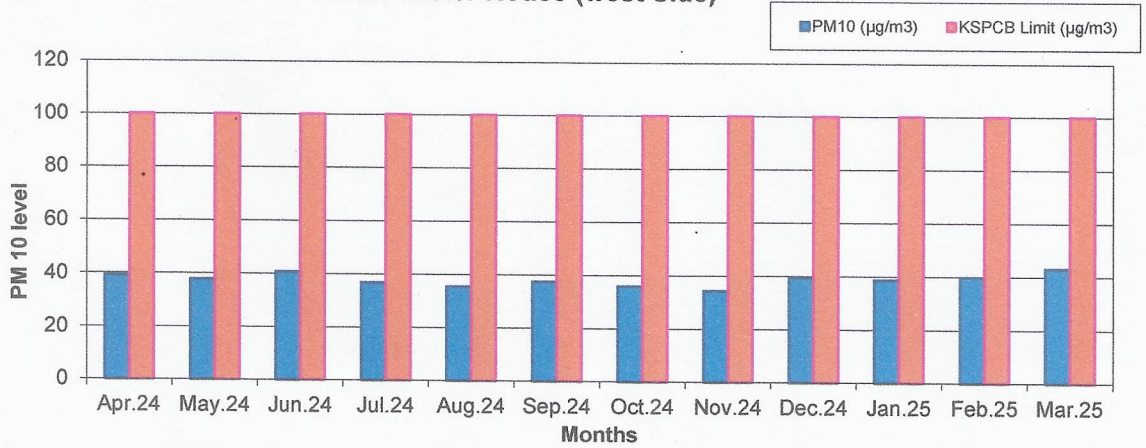
**Fig-3: Variation in NoX levels from April 2024 to March 2025
Near Production area (East Side)**



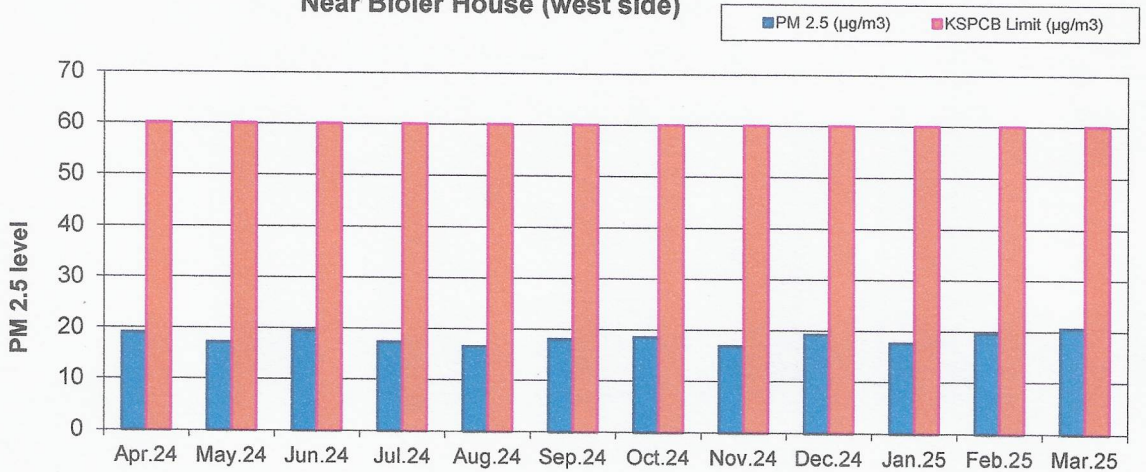
**Fig-4: Variation in SO2 levels April 2024 to March 2025
Near Production area (East Side)**



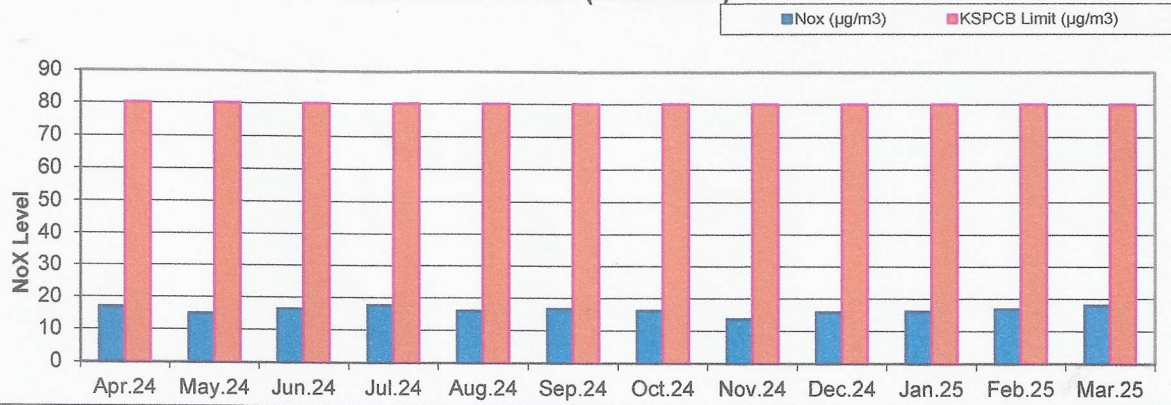
**Fig-1: Variation in PM 10 levels from April 2024 to March 2025
Near Bioler House (west Side)**



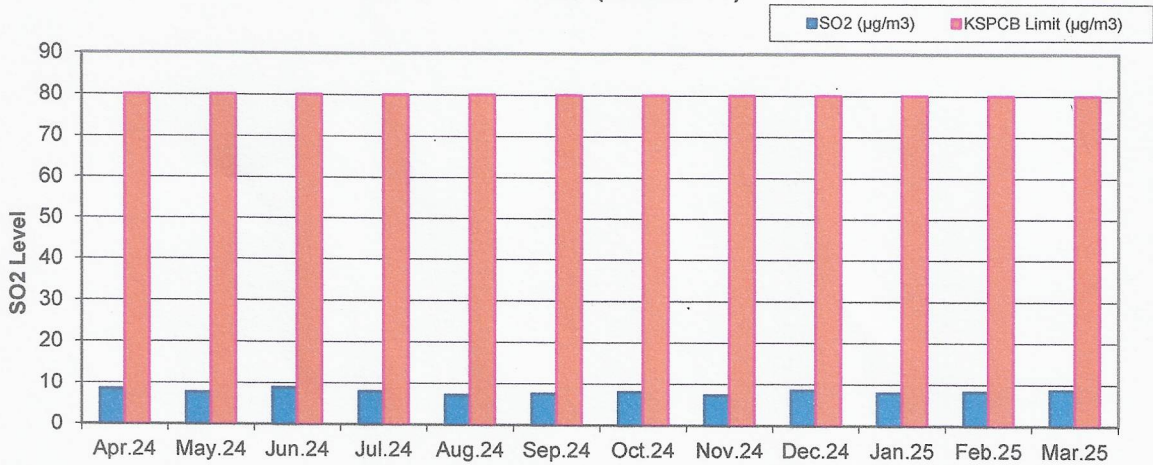
**Fig-2: Variation in PM 2.5 Levels from April 2024 to March 2025
Near Bioler House (west side)**



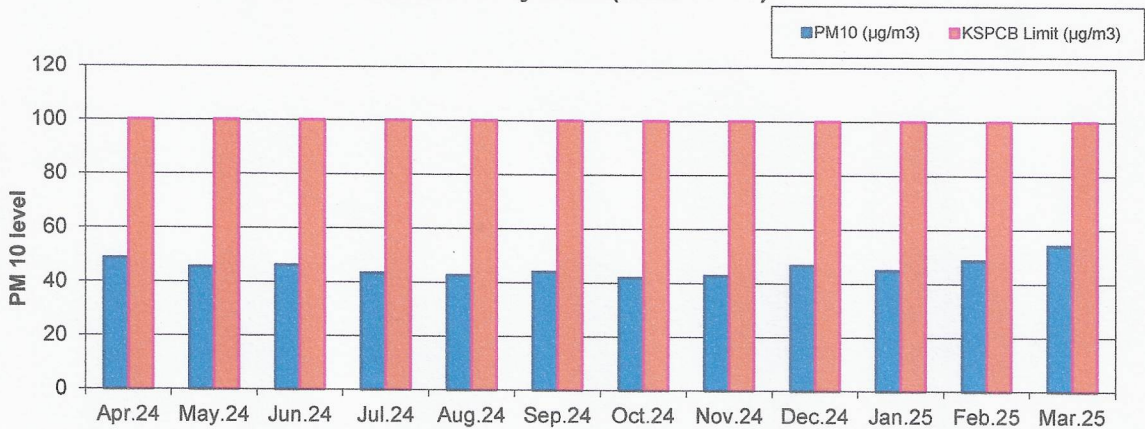
**Fig-3: Variation in NoX levels from April 2024 to March 2025
Near Bioler House (West Side)**



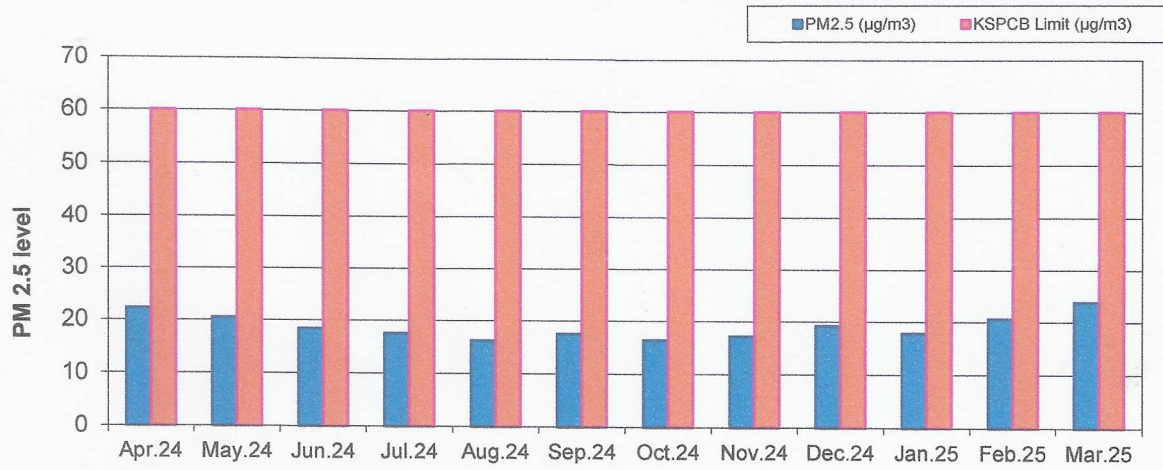
**Fig-4: Variation in SO2 levels from April 2024 to March 2025
Near Bioler House (West Side)**



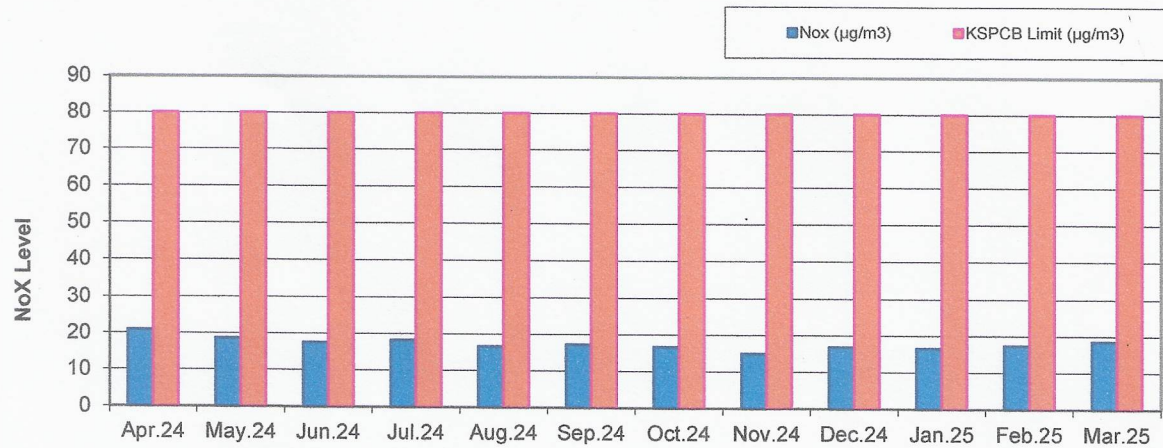
**Fig-1: Variation in PM 10 levels from April 2024 to March 2025
Near Materail Security Gate (South Side)**



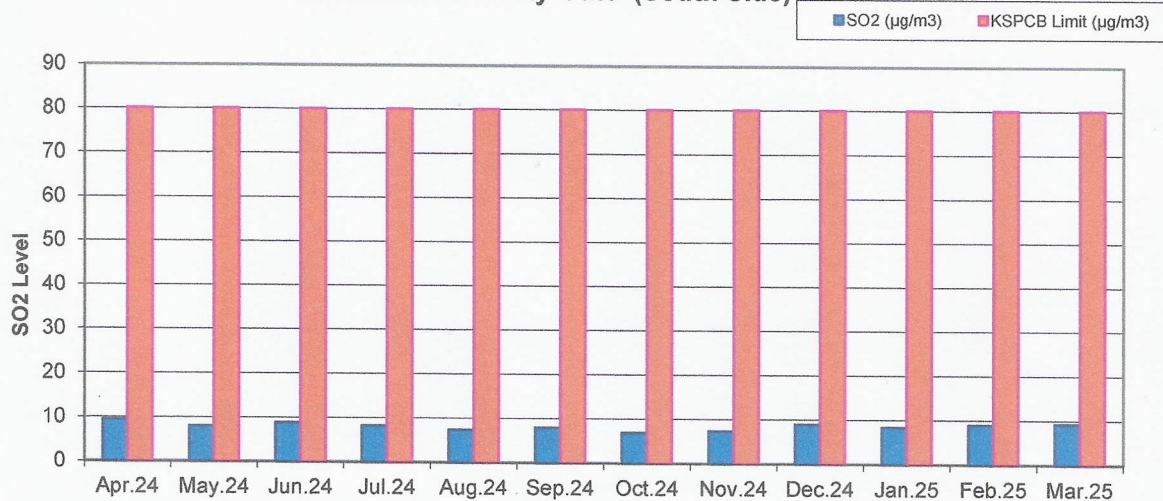
**Fig-2: Variation in PM 2.5 Levels from April 2024 to March 2025
Near Materail Security Gate (South side)**



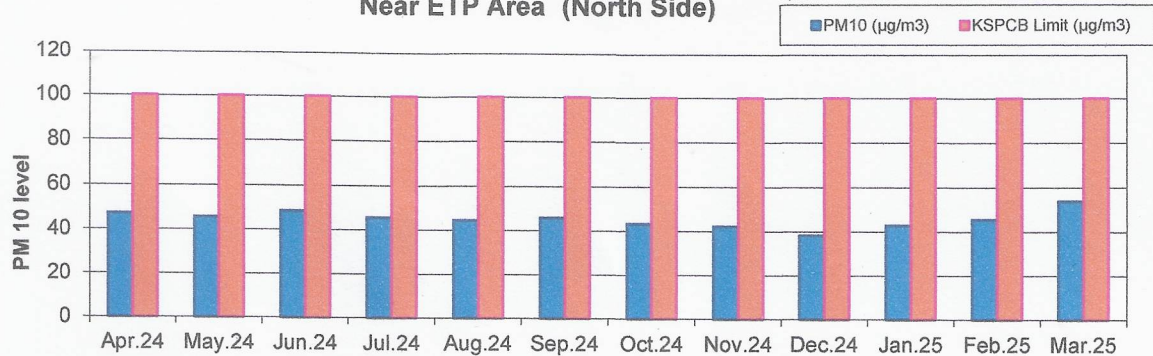
**Fig-3: Variation in NoX levels from April 2024 to March 2025
Near Materail Security Gate (South Side)**



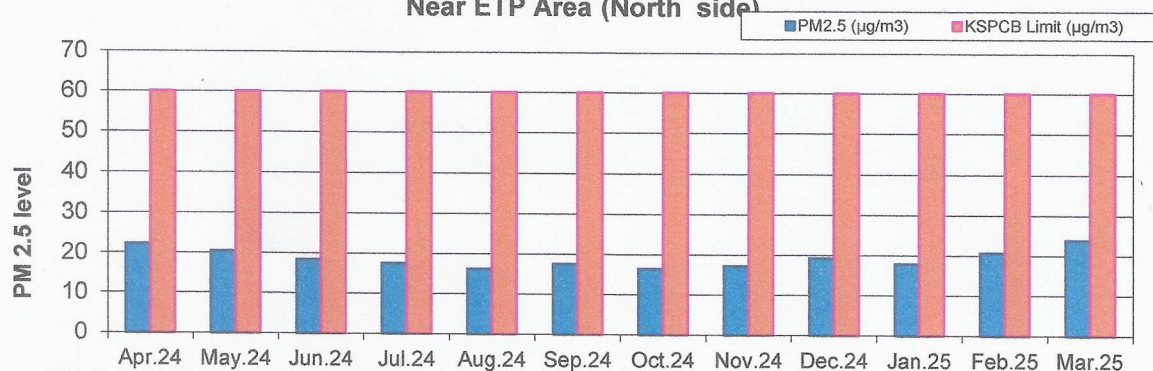
**Fig-4: Variation in SO2 levels from April 2024 to March 2025
Near Materail Security Gate (South Side)**



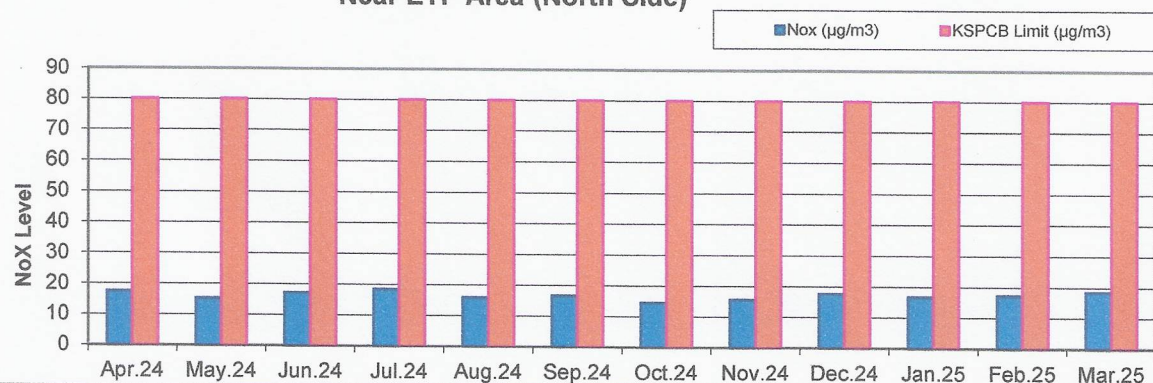
**Fig-1: Variation in PM 10 levels from April 2024 to March 2025
Near ETP Area (North Side)**



**Fig-2: Variation in PM 2.5 Levels from April 2024 to March 2025
Near ETP Area (North side)**



**Fig-3: Variation in NoX levels from April 2024 to March 2025
Near ETP Area (North Side)**



**Fig-4: Variation in SO2 levels from April 2024 to March 2025
Near ETP Area (North Side)**

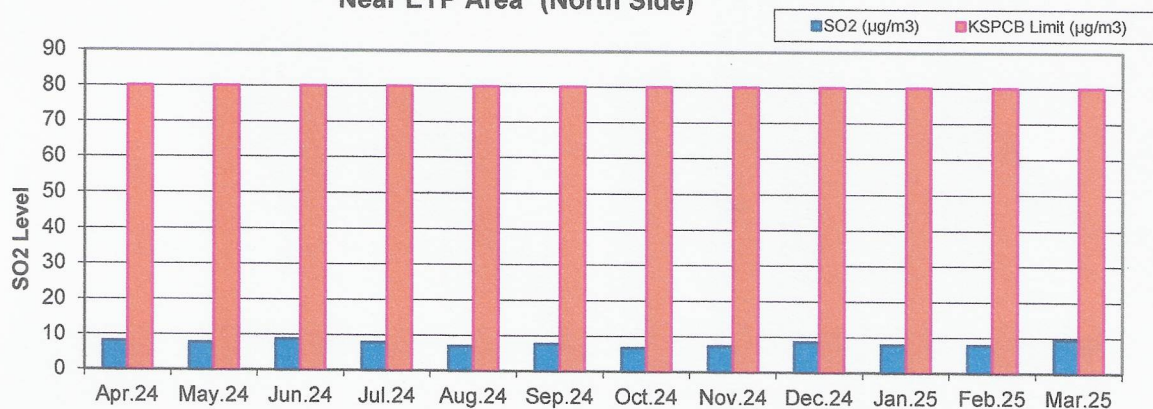


Fig-01: Variation in emission of Particulate matter Levels of stack attached to Boiler 1.5 TPH from April 2024 to March 2025

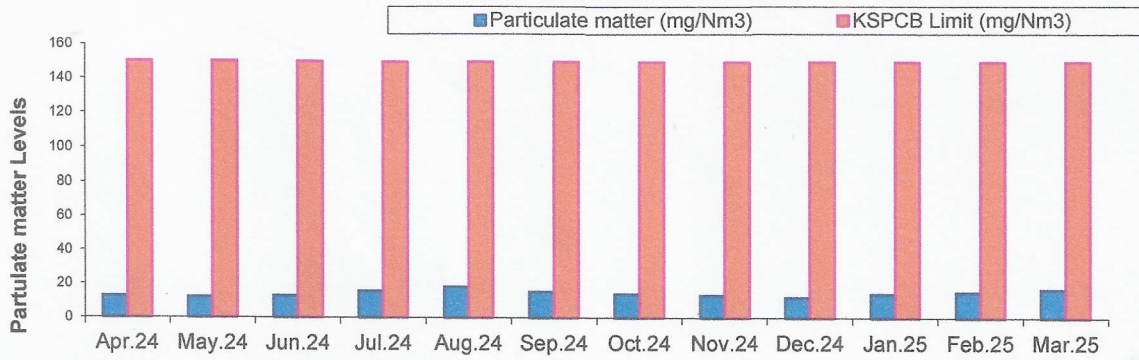


Fig-01: Variation in emission of Particulate matter Levels of stack attached to DG set (1500KVA) from April 2024 to March 2025

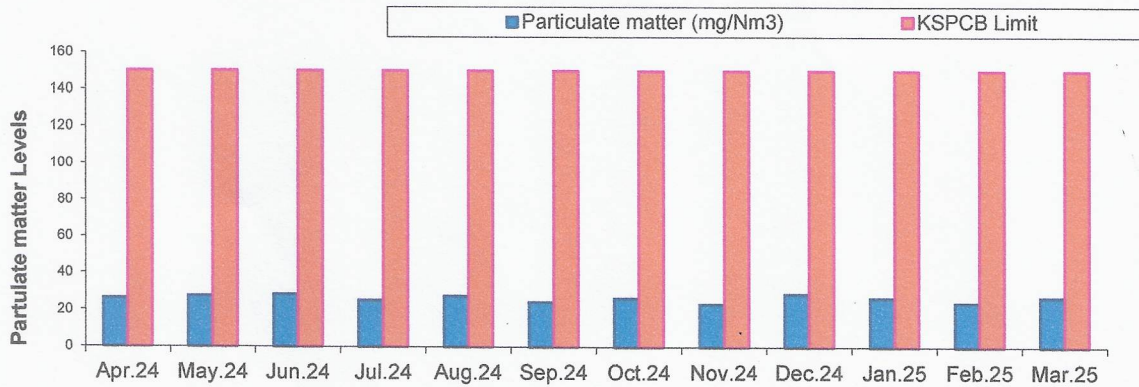


Fig-03: Variation in emission of Nox Levels of stack attached to DG set (1500KVA) from April 2024 to March 2025

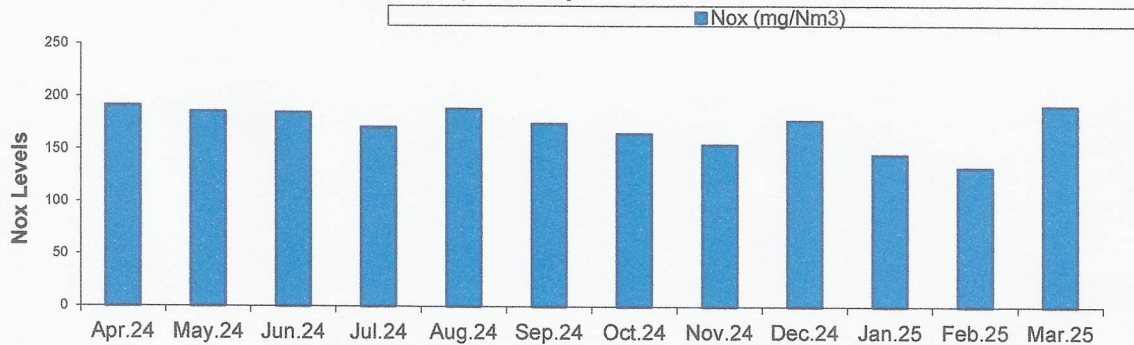


Fig-02: Variation in emission of SO2 Levels of stack attached to DG set (1500KVA) from April 2024 to March 2025

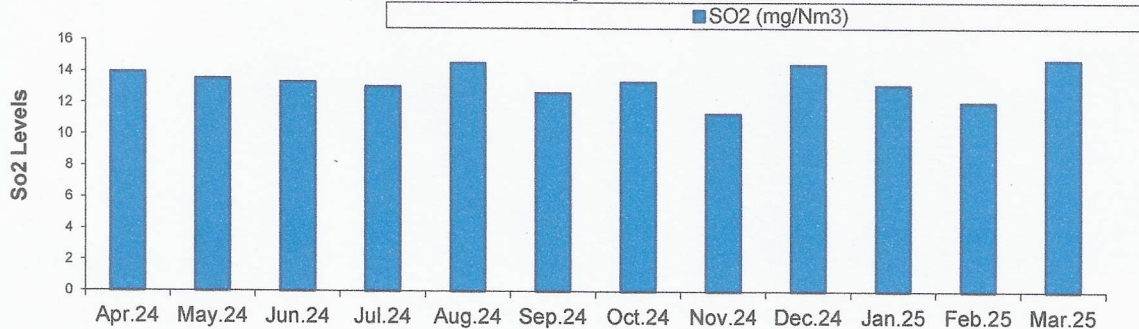


Fig-01: Variation in emission of Acid mist in stack attached to Scrubber 201 from April 2024 to March 2025

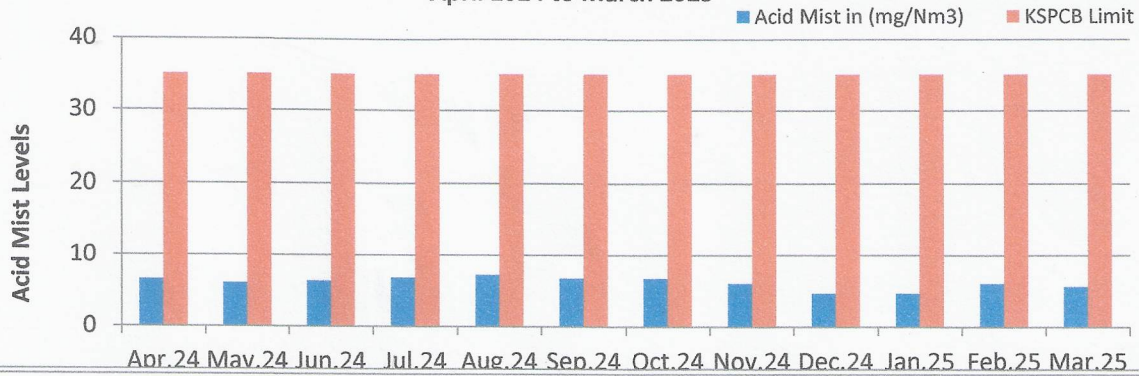


Fig-02: Variation in emission of Acid mist in stack attached to Scrubber (SCB-202) from April 2024 to March 2025

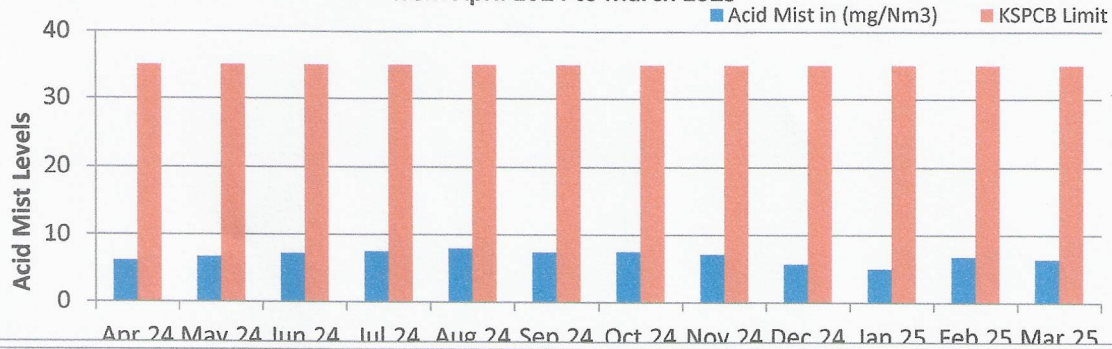


Fig-03: Variation in emission of Acid mist in stack attached to Scrubber (SCB-203) from April 2024 to March 2025

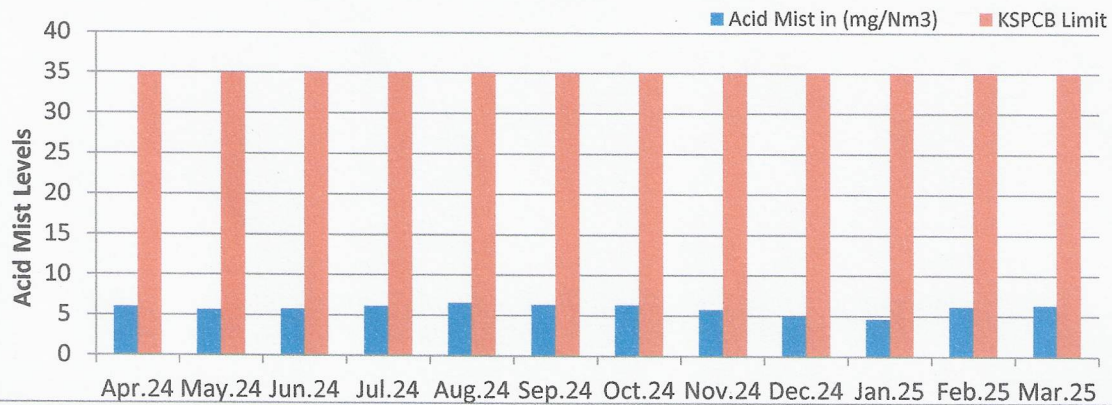


Fig-04: Variation in emission of Acid mist in stack attached to Scrubber (SCB-204) from April 2024 to March 2025

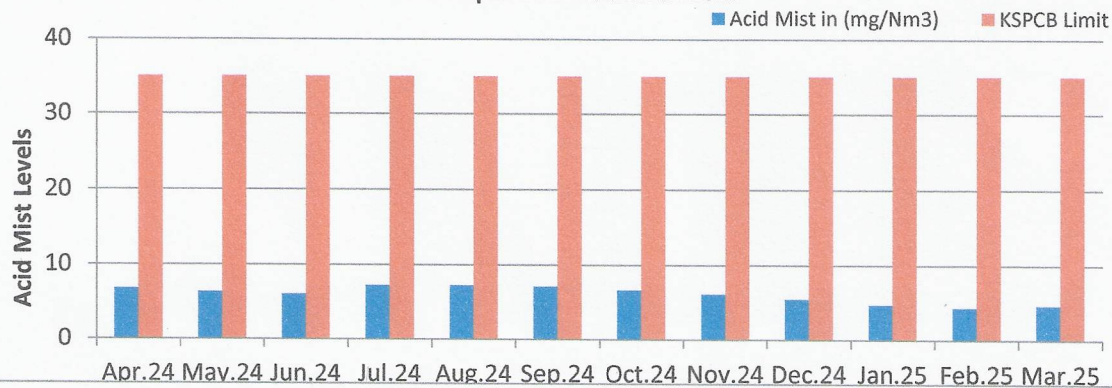


Fig-05: Variation in emission of Acid mist in stack attached to Scrubber (205) from April 2024 to March 2025

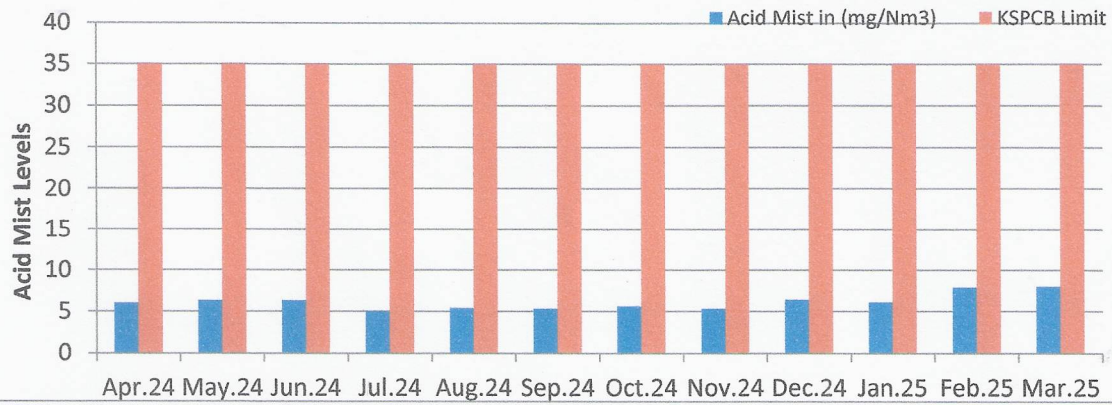


Fig-06: Variation in emission of Acid mist in stack attached to Scrubber (206) from April 2024 to March 2025

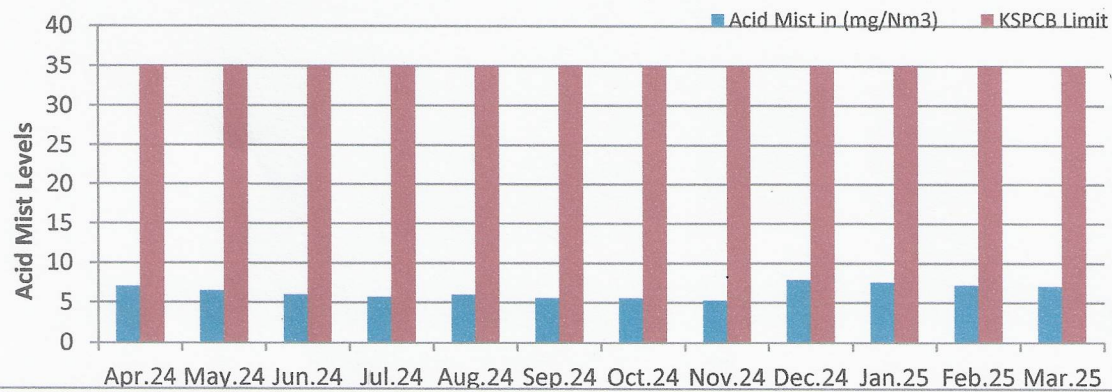


Fig-07: Variation in emission of Acid mist in stack attached to Scrubber (207) from April 2024 to March 2025

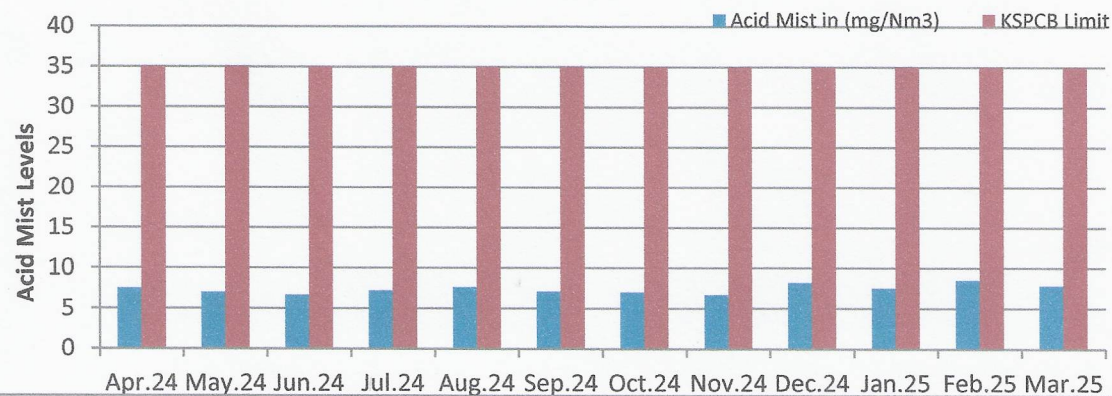


Fig-08: Variation in emission of Acid mist in stack attached to Scrubber (SCB-101) from April 2024 to March 2025

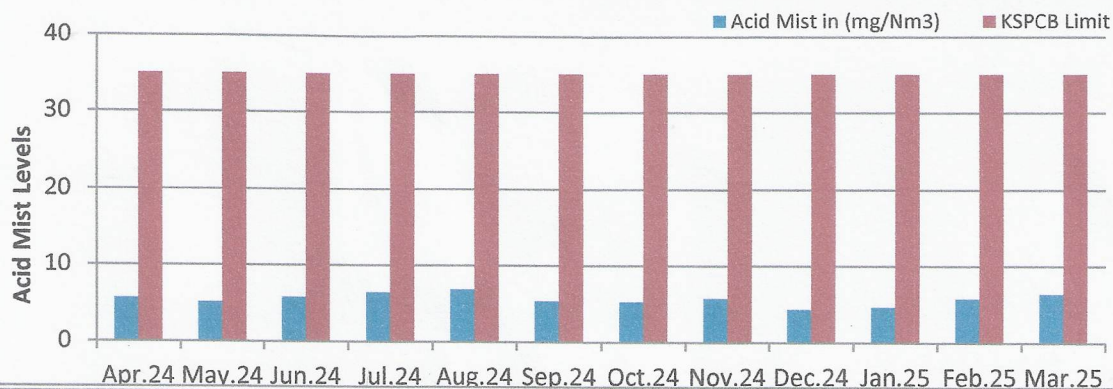


Fig-09: Variation in emission of Acid mist in stack attached to Scrubber (SCB-17) from April 2024 to March 2025

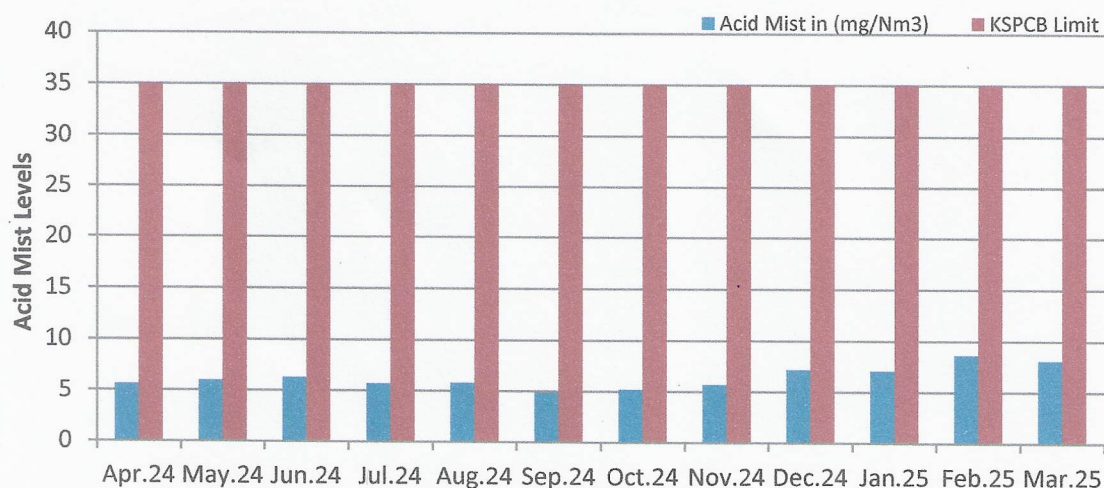


Fig-02: Variation in emission of SO2 Levels of stack attached to Boiler 1.5 TPH from April 2024 to March 2025

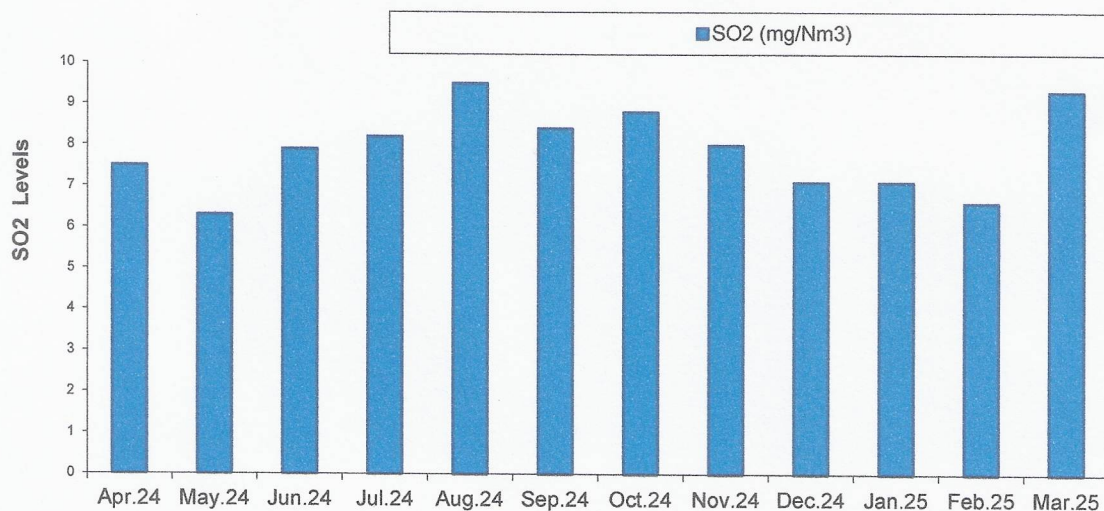


Fig-03: Variation in emission of NO_x Levels of stack ttached to Boiler 1.5 TPH from April 2024 to March 2025

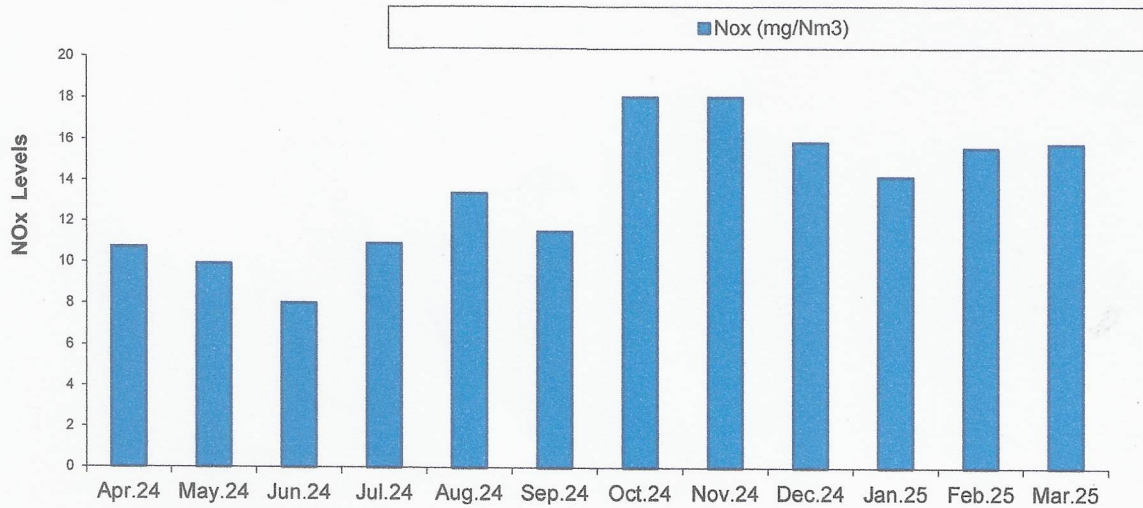
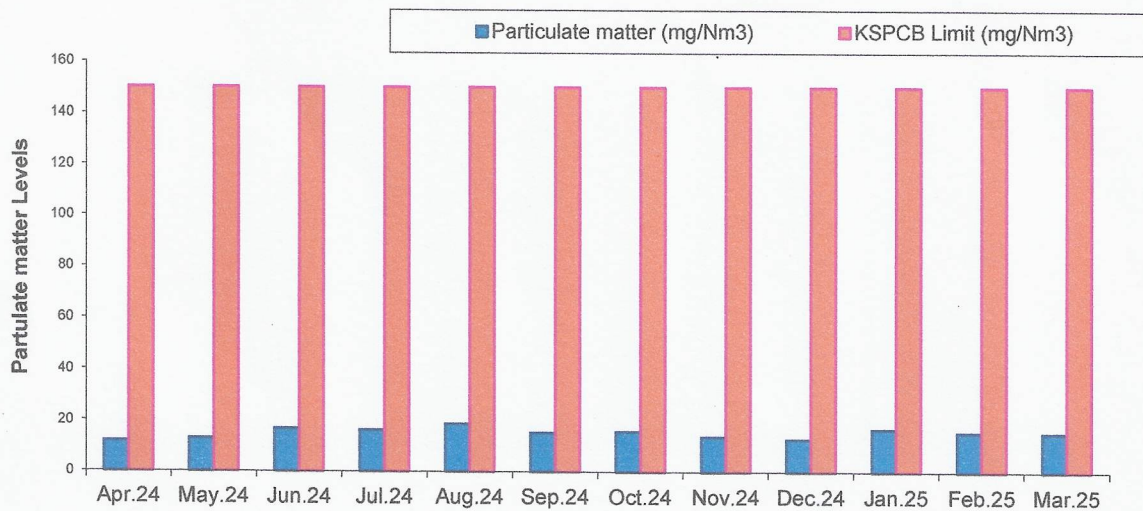
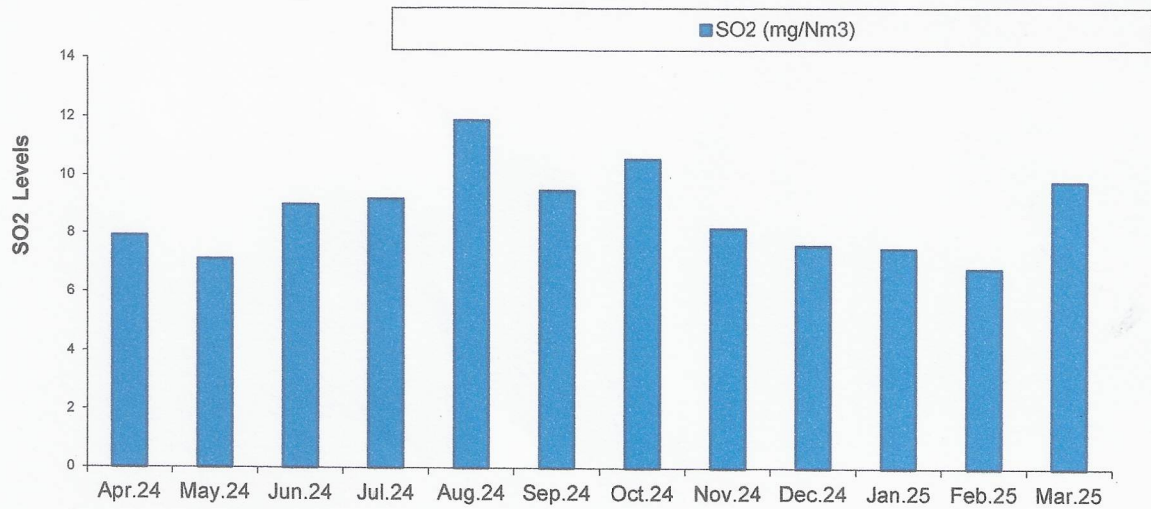


Fig-01: Variation in emission of Particulate matter Levels of stack attached to Boiler 2.0 TPH from April 2024 to March 2025



**Fig-02: Variation in emission of SO₂ Levels of stack ttached to Boiler 2.0
TPH from April 2024 to March 2025**



**Fig-03: Variation in emission of NO_x Levels of stack ttached to Boiler 2.0
TPH from April 2024 to March 2025**

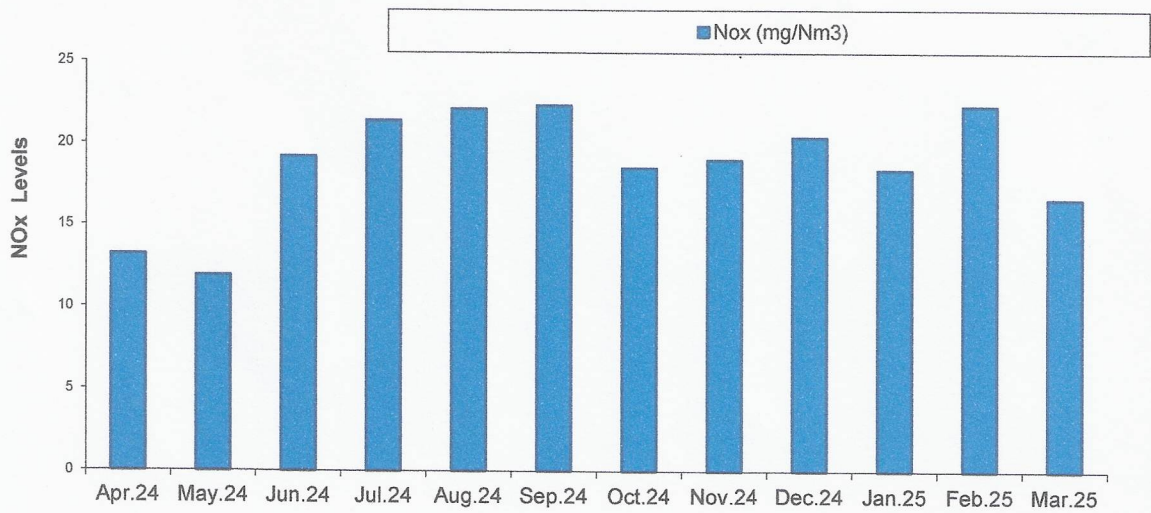


Fig-01: Variation in emission of Particulate matter Levels of stack attached to DG set (500KVA) from April 2024 to March 2025

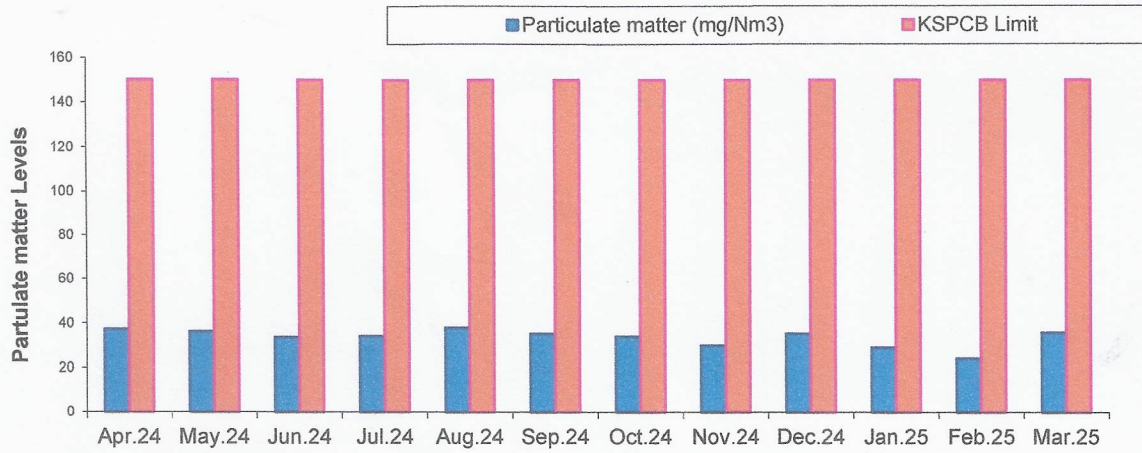


Fig-02: Variation in emission of SO2 Levels of stack attached to DG set (500KVA) from April 2024 to March 2025

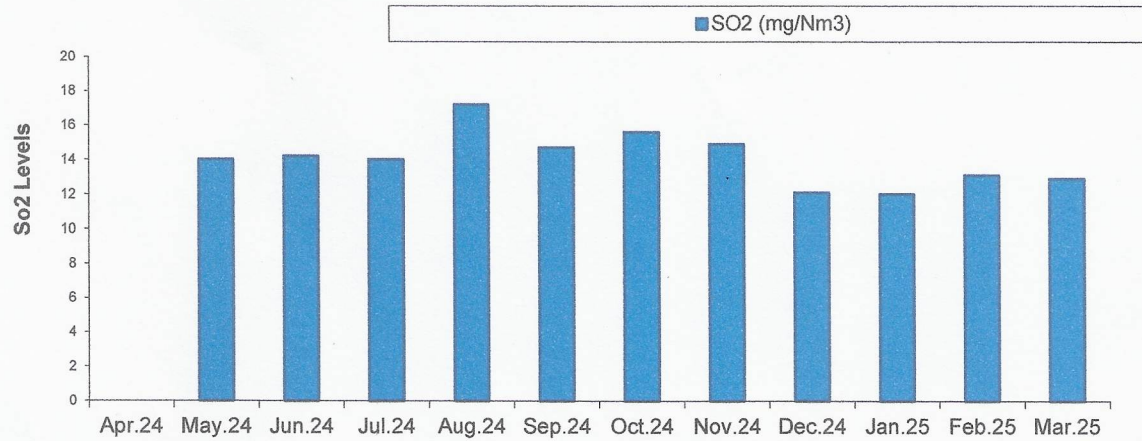
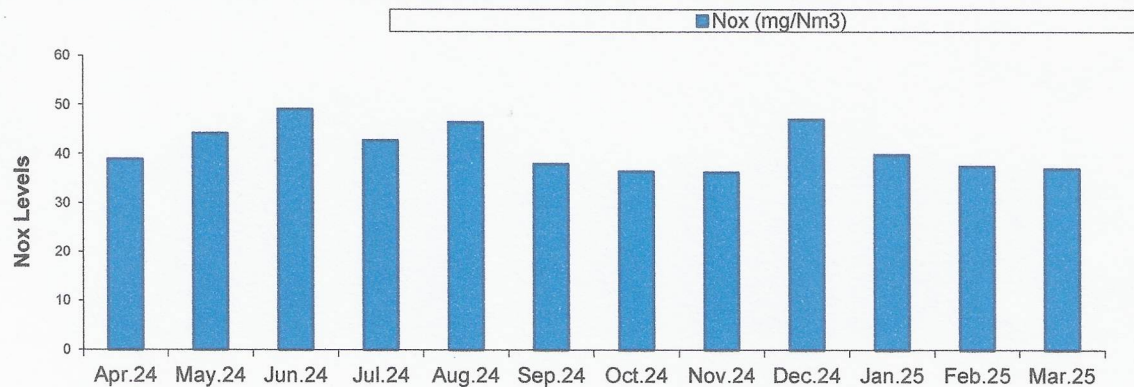


Fig-03: Variation in emission of Nox Levels of stack attached to DG set (500KVA) from April 2024 to March 2025



ANNEXURE-4 WATER CONSUMPTION DETAILS

