

Letter No.: KSPCB/24-25/19

Date: 30.09.2024

To,
The Member Secretary
Karnataka State Pollution Control Board,
Parisara Bhavan,
4th & 5th Floor, Church Street,
BANGALORE – 560001.

Sub: Submission of annual water, air, Hazardous waste Returns (Form-V-
Environmental Audit Statement) for the year April-2023 to March- 2024 - Reg.

Dear Sir,

With reference to the above subject, please find enclosed here with Annual returns of water, air, and Hazardous waste returns (Form-V – Environmental Audit Statement) in the prescribed format for the year April- 2023 to March -2024.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,
For CIPLA LIMITED.



Pradeep Gupta
Designation: Site Head

CC: The Regional Officer,
Mahadevapura- KSPCB, 3rd Floor,
Nisarga Bhavan, Thimmaiah road,
7th 'D' cross, Shivanagar,
BANGALORE – 560010.

Encl : As above.

Verified
30.09.2024

Cipla Ltd.

Virgonagar, Old Madras Road, Bangalore - 560 049, India.
P +91 80 46912363, 46912401

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

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**ENVIRONMENTAL AUDIT
STATEMENT
2023- 2024**

**CIPLA Ltd
BANGALORE**

ENVIRONMENTAL AUDIT STATEMENT REPORT

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 is located 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, Engineering projects, Quality Control, Quality Assurance and Safety, Health & Environment

1.1 BRIEF DESCRIPTION OF THE SITE:

Cipla limited Bangalore plant started manufacturing activities 1977. It is situated on the Old Madras Road highway at a distance of about 18 km from Bangalore city and is about half an hour drive from the city.

The total area of the site is 60,986 square meters (15.1 acres) with a built-up area of 38,628 square meters. There are separate buildings for the manufacture of bulk drugs. The bulk drug manufacturing area is around 19,709 square meters. Adequate open space is provided between various buildings. No activity other than manufacturing of bulk drugs is carried out at the site.

The immediate environment comprises of engineering, chemical, packaging, and electronic industries.

The factory has strength of about 469 employees, approx. 455 of which are in the management category, the rest being workmen, contractor employees around 298 numbers work inside premises.

The atmospheric temperature varies from 23.0°C to 40.0°C. The difference of maximum and minimum temperature is more or less constant throughout the year except in rainy seasons.

ENVIRONMENTAL AUDIT STATEMENT REPORT

1.3 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.

1.4 QUALITY CONTROL:

Quality Control performs complete analysis to specifications on input raw materials, inter-mediate, finished products and components using classical analytical "wet chemistry" techniques as well as sophisticated instrumentation such as TGA, DSC / TGA, TOC, HPCL with DPA, HPLC, FTIR, GC, Head Space, IR, UV/VIS Spectrophotometers, dissolution apparatus and auto filtrates. The laboratory is also provided with the necessary equipment including incubators, stability ovens, laminar air flow units, isolators etc., to handle microbiological testing.

1.5 RESEARCH AND DEVELOPMENT:

Cipla Bangalore has R&D Center, which conducts research on product development of bulk chemicals. In addition, a major objective of the R&D Division is in improvement of existing processes and products as well as trouble shooting.

1.6 ENVIRONMENT, HEALTH, AND SAFETY:

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, ammonia gas detector, HC detector, Heat detector, PA system, MCP, Hydrogen gas leak detectors, oxygen analyzer system, etc. are provided to tackle emergency situations.

ENVIRONMENTAL AUDIT STATEMENT REPORT

ENVIRONMENTAL AUDIT STATEMENT 2023 - 2024

F O R M – V

(SEE RULE 14)

Environmental Statement for the financial year ending the 31st of March 2024.

PART – A

- i) Name and address of the owner / occupier of the industry in operation or process:

Mr. Pradeep Gupta
Factory Manager
Cipla Limited
Virgonagar Post
Bangalore – 560 049
Phone: 080-46912363

- ii) Industry category primary - (STC) code, Secondary – (SIC code) ----: RED
iii) Production capacity: 370 MT/Annum
iv) Year Of Establishment: 1972
v) Date of the last environmental statement submitted: - 29th September 2023 for the year 2022–2023.

ENVIRONMENTAL AUDIT STATEMENT REPORT

SL.NO.	PRODUCT	UNIT	PRODUCTION CAPACITY (Per annum)	PRODUCTION DURING the current financial year
21.	Lansoprazole New Process	KG	5000	849
22.	Lansoprazole Old Process	KG	3000	0
23.	Leflunomide	KG	2500	988
24.	Levofloxacin Hemihydrate	KG	40000	931
25.	Linagliptin	KG	500	99
26.	Lopinavir	KG	3000	0
27.	Nintedanib Esylate	KG	1000	0
28.	Omeprazole	KG	30000	13724
29.	Omeprazole Magnesium	KG	2300	0
30.	Omeprazole Sodium	KG	2000	1058
31.	Oxaliplatin	KG	40	0
32.	Pantoprazole sodium	KG	10000	504
33.	Pregabalin	KG	3000	0
34.	Risperidone	KG	1500	961
35.	Ritonavir	KG	10000	0
36.	Saxagliptin	KG	300	0
37.	Sitagliptin Phosphate	KG	1000	0
38.	Tenofovir Alafenamide Fumarate	KG	5000	44
39.	Topiramate	KG	60000	32819
40.	Vildagliptin	KG	2000	0
41.	R&D products (non-commercial)	KG	2000	0
	Total quantity	KG	370000	124421

LIST OF TABLETS –QUANTITY IN LAKHS /YEAR

Sl.No.	PRODUCTS	UNITS	PRODUCTION CAPACITY (Per annum)	PRODUCTION DURING THE CURRENT FINANCIAL YEAR
1.	Anagralide Hcl (capsules 0.5 mg)	Lakhs	250	0.00
2.	Anagralide Hcl (capsules 1.0 mg)	Lakhs	100	0.00
3.	Fincar 5 mg tablets	Lakhs	400	0.00
4.	Finasteride 1 mg tablets	Lakhs	400	0.00
5.	Leflunamide tablets 10/20 mg	Lakhs	200	0.00
6.	Leflunamide tablets 100 mg	Lakhs	10	0.00
7.	Mycophenolate Mofetil 250 mg tablets	Lakhs	50	0.00
8.	Mycophenolate Mofetil 500 mg tablets	Lakhs	50	0.00
9.	Tamsulosin hydrochloride capsules 0.2 mg	Lakhs	500	0.00
10.	Tamsulosin hydrochloride capsules 0.4 mg	Lakhs	8500	0.00
	Total quantity	Lakhs	10460	0.00

ENVIRONMENTAL AUDIT STATEMENT REPORT

Sl. No.	PRODUCT	Water consumption per unit of product	
		During the previous financial year	During the current financial year
		Process water consumption per unit of product output. (Lt / Kg)	Process water consumption per unit of product output* (Lt / Kg)
1.	Amlodipine Besylate New Process	13.44	13.43
2.	Amlodipine Besylate Old Process	91.58	92.04
3.	Amlodipine Mesylate	173.20	178.57
4.	Anagrelide Hydrochloride	0.0	158.54
5.	Aprimilast	0.0	121.39
6.	Azidothymidine (Zidovudine)	0.0	0.00
7.	Bicalutamide	93.37	0.00
8.	Capecitabine	0.0	0.00
9.	Carboplatin	0.0	0.00
10.	Cisplatin	0.0	0.00
11.	Dexlansoprazole	0.0	0.00
12.	Donepezil Hydrochloride	25.86	26.67
13.	ES Omeprazole Magnesium (Di)	12.89	12.65
14.	ES Omeprazole Magnesium (tri)	0.00	29.92
15.	Etoposide	147.47	145.86
16.	Felodipine	0.00	0.00
17.	Flutamide	0.00	0.00
18.	Granisetron Base	29.40	27.3
19.	Granisetron Hydrochloride	66.01	57.27
20.	Lamotrigine	0.0	0.00
21.	Lansoprazole New Process	80.71	69.92
22.	Lansoprazole Old Process	0.0	0.00
23.	Leflunomide	105.26	106.38
24.	Levofloxacin Hemihydrate	25.72	23.20
25.	Linagliptin	0.00	135.68
26.	Lopinavir	0.0	0.00
27.	Nintedanib Esylate	0.0	0.00
28.	Omeprazole	39.35	38.80
29.	Omeprazole Magnesium	0.0	0.00
30.	Omeprazole Sodium	0.32	0.33
31.	Oxaliplatin	0.0	0.00
32.	Pantoprazole Sodium	59.86	52.79
33.	Pregabalin	0.0	0.00

ENVIRONMENTAL AUDIT STATEMENT REPORT

Name of raw material	Name of Product	Raw material consumption	
		Consumption of Raw material per unit output	
		Previous year	Current year
Amlodipine	Amlodipine Besylate (New)	0.80	0.79
Benzene Sulphonic Acid	Amlodipine Besylate (New)	0.32	0.31
Methanol	Amlodipine Besylate (New)	1.69	1.67
IPA	Amlodipine Besylate (New)	6.37	6.30
Phthaloyl amlodipine	Amlodipine Besylate (New)	1.99	1.97
Monomethyl amine 40%	Amlodipine Besylate (New)	9.75	9.63
Amlodipine	Amlodipine Besylate (Old)	0.88	0.89
Benzene Sulphonic Acid	Amlodipine Besylate (Old)	0.35	0.36
Methanol	Amlodipine Besylate (Old)	3.53	3.56
IPA	Amlodipine Besylate (Old)	12.06	12.17
Phthaloyl amlodipine	Amlodipine Besylate (Old)	1.76	1.78
Monomethyl amine 40%	Amlodipine Besylate (Old)	7.32	7.38
Phthaloyl amlodipine	Amlodipine Mesylate	1.37	1.41
sodium sulphate	Amlodipine Mesylate	0.14	0.14
activated charcoal	Amlodipine Mesylate	0.14	0.14
sodium chloride	Amlodipine Mesylate	0.18	0.19
Methane sulphonic acid	Amlodipine Mesylate	0.25	0.25
Monomethyl amine	Amlodipine Mesylate	6.69	6.90
IPA	Amlodipine Mesylate	3.69	3.81
Ethyl Acetate	Amlodipine Mesylate	36.46	37.59
Methanol	Amlodipine Mesylate	1.41	1.46
MDC	Amlodipine Mesylate	15.50	15.98
AO4 compound	Anagrelide HCL	0.00	3.46
Stannous Chloride	Anagrelide HCL	0.00	10.75
Potassium Carbonate powder 40mesh	Anagrelide HCL	0.00	8.65
Sodium Sulphate anhydrous	Anagrelide HCL	0.00	2.88
Cyanogen bromide Lr	Anagrelide HCL	0.00	1.30
Hyflo Supercel	Anagrelide HCL	0.00	2.31
Hydrochloric acid Ar Grade	Anagrelide HCL	0.00	85.06
Toluene	Anagrelide HCL	0.00	67.47
Apt Sulfonamine	Apremilast	0.0	2.69
N-acetyl-L-Leucine	Apremilast	0.0	1.45
Methanol	Apremilast	0.0	64.46
APT Sulfonamine Leucine Salt	Apremilast	0.0	1.81
Triethyl amine	Apremilast	0.0	2.63

ENVIRONMENTAL AUDIT STATEMENT REPORT

Benzyl Bromide	Donepezil HCL	0.86	0.89
Izl-02	Donepezil HCL	1.15	1.19
Ol compound	Es Ome Magnesium. Di	1.74	1.73
Sodium sulphate anhydrous	Es Ome Magnesium. Di	0.29	0.29
Potassium hydroxide flakes	Es Ome Magnesium. Di	0.98	0.97
Acetic acid	Es Ome Magnesium. Di	0.49	0.48
Acetone	Es Ome Magnesium. Di	7.92	7.87
Cumene hydroperoxide	Es Ome Magnesium. Di	1.26	1.25
Methanol	Es Ome Magnesium. Di	8.27	8.22
Methylene chloride	Es Ome Magnesium. Di	19.98	19.86
N,N- diisopropylethylamine	Es Ome Magnesium. Di	0.10	0.10
ITIP	Es Ome Magnesium. Di	0.12	0.12
Toluene	Es Ome Magnesium. Di	9.28	9.22
Diethyl D(-) tartarate	Es Ome Magnesium. Di	0.17	0.16
Esomeprazole K	Es Ome Magnesium. Di	1.74	1.73
Magnesium chloride hexahydrate	Es Ome Magnesium. Di	0.40	0.40
Ethyl acetate	Es Ome Magnesium. Di	4.96	4.93
Ol compound	Es Ome Magnesium Tri	0.0	2.74
Sodium sulphate anhydrous	Es Ome Magnesium Tri	0.0	0.46
Potassium hydroxide flakes	Es Ome Magnesium Tri	0.0	1.54
Acetic acid	Es Ome Magnesium Tri	0.0	0.77
Acetone	Es Ome Magnesium Tri	0.0	1.14
Cumene hydroperoxide	Es Ome Magnesium Tri	0.0	1.98
Methanol	Es Ome Magnesium Tri	0.0	4.33
Methylene chloride	Es Ome Magnesium Tri	0.0	31.46
N,N- diisopropylethylamine	Es Ome Magnesium Tri	0.0	0.16
ITIP	Es Ome Magnesium Tri	0.0	0.19
Toluene	Es Ome Magnesium Tri	0.0	14.61
Diethyl D(-) tartarate	Es Ome Magnesium Tri	0.0	0.26
Esomeprazole K	Es Ome Magnesium Tri	0.0	2.74
Magnesium chloride hexahydrate	Es Ome Magnesium Tri	0.0	0.36
Ethyl acetate	Es Ome Magnesium Tri	0.0	4.32
Liquor Ammonia 0.9s	Es Ome Magnesium Tri	0.0	0.01
4-Dimethyl Epipodophyllotoxin	Etoposide	1.82	1.82
Sodium bicarbonate commercial	Etoposide	0.45	0.45
Sodium sulphate anhydrous	Etoposide	0.36	0.36
Methylene chloride	Etoposide	138.60	138.47
Pyridine	Etoposide	0.45	0.45
Benzyl chloroformate	Etoposide	2.50	2.50
Toluene	Etoposide	23.94	23.92

ENVIRONMENTAL AUDIT STATEMENT REPORT

Activated Charcoal	Granisetron Base	0.10	0.09
Hyflo Supercel	Granisetron Base	0.49	0.45
Thionyl Chloride	Granisetron Base	2.45	2.27
Dimethyl Formamide	Granisetron Base	0.93	0.86
N-Heptane	Granisetron Base	10.73	9.95
Hydrochloric Acid	Granisetron Base	0.96	0.89
Triethylamine	Granisetron Base	1.47	1.36
Methylene Chloride	Granisetron Base	31.18	28.91
Liquor Ammonia	Granisetron Base	1.47	1.37
Toluene	Granisetron Base	4.25	3.94
Isopropyl Alcohol	Granisetron Base	10.71	9.93
1-Methyl L-1h-Indazole-3 Carboxylic [GNB-4]	Granisetron HCL	1.11	1.00
Sodium Bicarbonate	Granisetron HCL	0.56	0.50
Sodium Sulphate	Granisetron HCL	0.89	0.80
Activated Charcoal	Granisetron HCL	0.11	0.10
Hyflo Supercel	Granisetron HCL	0.56	0.50
Thionyl Chloride	Granisetron HCL	2.78	2.50
Dimethyl Formamide	Granisetron HCL	1.05	0.95
N-Heptane	Granisetron HCL	12.09	10.88
Hydrochloric Acid	Granisetron HCL	1.09	0.98
Triethylamine	Granisetron HCL	1.67	1.50
Methylene Chloride	Granisetron HCL	35.33	31.80
Liquor Ammonia	Granisetron HCL	1.67	1.50
Toluene	Granisetron HCL	4.81	4.33
Isopropyl Alcohol	Granisetron HCL	20.80	18.72
IPA + Hcl 20%	Granisetron HCL	1.23	1.10
[Lan chloro]	Lansoprazole	1.03	0.88
Methanol	Lansoprazole	0.81	0.69
Activated charcoal commercial	Lansoprazole	0.08	0.07
Sodium hydroxide flakes	Lansoprazole	0.41	0.35
2-mercapto benzimidazole	Lansoprazole	0.56	0.49
Stage-1 Lan Sulphide	Lansoprazole	1.23	1.06
Sodium hypo chlorite solution 7%	Lansoprazole	4.93	4.24
Sodium hydroxide flakes	Lansoprazole	0.58	0.49
Acetonitrile	Lansoprazole	2.93	2.52
Sodium thiosulphate	Lansoprazole	0.10	0.08
Ammonium acetate commercial	Lansoprazole	1.85	1.59
Activated charcoal sx ultra	Lansoprazole	0.12	0.11
Activated charcoal commercial	Lansoprazole	0.12	0.11

ENVIRONMENTAL AUDIT STATEMENT REPORT

Omeprazole USP	Omeprazole Sodium	1.34	1.37
Sodium hydroxide flakes	Omeprazole Sodium	0.16	0.16
Methanol	Omeprazole Sodium	3.80	3.90
Diiso propyl ether	Omeprazole Sodium	6.79	6.96
[PZL chloride]	Pantoprazole Sodium.Sesq.	0.90	0.79
[PZL thiol]	Pantoprazole Sodium.Sesq.	0.90	0.79
Tetrabutylammonium bromide	Pantoprazole Sodium.Sesq.	0.04	0.03
Sodium hypo chlorite solution 7%	Pantoprazole Sodium.Sesq.	4.50	3.97
Sodium hydroxide flakes	Pantoprazole Sodium.Sesq.	0.99	0.87
Sodium Thiosulphate	Pantoprazole Sodium.Sesq.	0.14	0.13
Ammonium acetate commercial	Pantoprazole Sodium.Sesq.	2.16	1.90
Liquor ammonia 0.9 s.p gravity	Pantoprazole Sodium.Sesq.	0.00	0.01
Activated charcoal commercial	Pantoprazole Sodium.Sesq.	0.14	0.12
Acetone	Pantoprazole Sodium.Sesq.	5.83	5.14
Methylene chloride	Pantoprazole Sodium.Sesq.	13.60	11.99
Ethyl acetate	Pantoprazole Sodium.Sesq.	3.16	2.79
IPA + HCl 20% W/W	Risperidone	0.78	0.79
Potassium Hydroxide Flakes	Risperidone	1.13	1.14
Sodium Sulphate Anhydrous	Risperidone	0.19	0.19
Toluene	Risperidone	8.44	8.57
[IRS 05]	Risperidone	1.13	1.14
Acetonitrile	Risperidone	14.01	14.22
Activated Charcoal Commercial	Risperidone	0.22	0.22
Alumina Neutral	Risperidone	0.17	0.18
Ethyl Acetate	Risperidone	9.22	9.37
Methanol	Risperidone	12.13	12.32
Methylene Chloride	Risperidone	13.36	13.57
Potassium Carbonate Powder 40mesh	Risperidone	1.08	1.09
Potassium Iodide LR Grade	Risperidone	0.05	0.05
Sodium Sulphate Anhydrous	Risperidone	0.22	0.22
[RS- 06]	Risperidone	0.86	0.88
[RS-8].	Risperidone	0.88	0.90
TP -1 Compound	Topiramate	1.09	1.11
Sodium Sulphate Anhydrous	Topiramate	0.22	0.22
Sulphuryl Chloride	Topiramate	0.68	0.69
Triethylamine	Topiramate	0.55	0.56
Hydrochloric Acid - Cp	Topiramate	1.31	1.33
Ethyl Acetate	Topiramate	11.67	11.81
Acetic Acid	Topiramate	0.27	0.28
Methylene Chloride	Topiramate	3.28	3.32

ENVIRONMENTAL AUDIT STATEMENT REPORT

PART - C

Pollution discharged to environment / unit of output parameters as specified in the consent issued.
Monitoring carried out by NABL /MOEF approved laboratory.

Water:

Pollutants	Quantity of pollutants discharged (mass/day) Unit -kg/day	Concentrations of pollutants in discharges (mass/volume) Unit - (mg/l)	Percentage of variation from prescribed standards with reason
Suspended solid	0.07	0.53	Well within the prescribed limits
pH value	7.20		
Bio-chemical Oxygen Demand	0.28	2.14	
Total Dissolved solid (Inorganic)	22.60	171.49	
Chemical Oxygen Demand	1.97	14.92	

ENVIRONMENTAL AUDIT STATEMENT REPORT

Pollutants	Quantity of pollutants discharged/day (mass/day)	Concentration of pollutants discharged (mass/volume) *	Percentage of variation from prescribed standards with reason
Location 3- Near Third Gate	Kg/day	µg/m³	
Particulate matter - PM ₁₀	0.000068	43.2	Well within the prescribed limit.
Particulate matter - PM _{2.5}	0.000029	18.2	
Sulphur Dioxide	0.000015	9.3	
Nitrogen Dioxide	0.000029	18.1	

Pollutants	Quantity of pollutants discharged/day (mass/day)	Concentration of pollutants discharged (mass/volume) *	Percentage of variation from prescribed standards with reason
Location 4-Near Car parking area	Kg/day	µg/m³	
Particulate matter - PM ₁₀	0.000071	44.8	Well within the prescribed limit.
Particulate matter - PM _{2.5}	0.000026	16.3	
Sulphur Dioxide	0.000015	9.4	
Nitrogen Dioxide	0.000029	18.6	

Note: Stack monitoring is carried out as per the consent and values are within the limits (Results submitted month on month)

ENVIRONMENTAL AUDIT STATEMENT REPORT

**PART - E
SOLID WASTES**

Other waste generation and disposal details
SOLID WASTE

SL.NO	Solid Waste	Total quantity (Kg)			
		During the previous financial year		During the current financial year	
		Generation	Disposal	Generation	Disposal
(a) From process and Maintenance activity					
1	Glass waste in non-dispersible form	18988	19133	21360	21420
2	Ceramic waste in non-dispersible form	0	0	0	0
3	Waste electrical & electronic assemblies	10817	10817	3310	3310
4	Spent activated carbon	0	0	0	0
5	Rubber Waste	0	0	370	370
6	Resins, Latex, Plastizers, Glues & adhesives	0	0	0	0
7	Iron & steel scrap	170532	175394	125910	125910
8	Paper, Paperboard, & Paper Product wastes	75134	75244	93590	93590
9	Untreated cork & wood waste	7969	7969	5970	5970
(b) From Pollution control facility -Nil					
(c) (1) Quantity recycled or re utilized within the unit – Nil					
(c) (2) Sold – All the material mentioned above which are generated at site sold to authorized KSPCB approved vendors					
(c) (3) Disposed - Nil					

ENVIRONMENTAL AUDIT STATEMENT REPORT

P A R T - F

Please specify the characterization in terms of composition and quantum of hazardous as well as solid waste indicate disposal practice adopted for both these categories of wastes.

Sl. No	Type of hazardous waste	Category of wastes	Characterization	Treatment
1.	Distillation residues	20.3	Semi solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator/Co-processing
2.	Process residue & waste	28.1	Solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator/ Co-processing
3.	Spent catalyst.	28.2	Solid & Flammable	Spent catalyst is sent for regeneration/Job work/recycle
4.	Spent carbon	28.3	Solid & Flammable	Spent carbon Incinerated at KSPCB Authorized Common Incinerator/ Co-processing
4.	Off specification products	28.4	Solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator/ Co-processing
5.	Date-expired products	28.5	Solid & Flammable	Incinerated at Authorized Common Incinerator/ Co-processing
6.	Spent organic solvents generated from antimicrobial products(Its)	28.6	Liquid & Flammable	Incinerated at Authorized Common Incinerator
7.	Used spent oil	5.1	Liquid & reusable	Disposed to KSPCB authorized re-processors.
8.	Spent solvent.	28.6	Liquid, Flammable & Recyclable	Sold to KPCB authorized recycler.
9.	Empty Barrels /containers/liners contaminated with hazardous chemicals/ wastes	33.1	Recyclable	
10.	Chemical Sludge From Wastewater Treatment (ETP Sludge (Agitated Thin Film Drier) ATFD powder from MEE plant)	35.3	i) biological sludge ii)Solid, organic and inorganic	Disposed to TSDF for Landfill.
11.	Contaminated cotton rags Or other cleaning	33.2	Solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator/ Co-processing
12.	Sludge from wet scrubber	37.1	Solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator/ Co-processing

ENVIRONMENTAL AUDIT STATEMENT REPORT

P A R T - G

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

S. No.	Particulars of the investment on environment /Audit	Gross block Value Rs. (in Lakhs)
1.	Recertification Audit ISO:14001 & ISO :45001	0.65
2.	RO Membrane	6.0
3.	Green belt area	1.0
4.	Online Ambient air quality monitoring station	1.5
5.	Solvent closed handling system	20.0
6.	Measurable instrument (Flow meters)	1.2
7.	Noncorrosive Painting at ETP	4.0
8.	Maintenance and fabrication work at ETP	14.0
9.	Closed Hazardous waste containers	15.0
10.	Safety meshes to open ponds at ETP	1.2
11.	Safety System implementation at HW storage area	2.0
12.	Spiral RO elements	11.0
13.	STP system installation	44.0
Grand Total		121.55

No natural resources are extracted at the premises for the production and no destruction is done to the natural resources.

The company has developed & maintained 37% of lush green belt around the boundary & also maintained a good garden inside the premises on the available open area.

The treated effluent water is used for cooling tower make up in factory premises.

The company implemented the latest technology in wastewater treatment like Membrane Bio Reactor and Reverse Osmosis Plant, followed by Triple Effect Evaporation System to recycle the treated water is utilizing for cooling towers.

ENVIRONMENTAL AUDIT STATEMENT REPORT

P A R T - I

Any other particulars for improvising the quality of the environment.

1. Environment Management System (ISO 14001:2015) and Occupational Health and Safety Assessment System (ISO 45001:2018) implemented and Re-certified by AFNOR Group, France in August -2023
2. Operation such as solid raw material charging to reactor is done by closed loop by installing 3 numbers of Powder Transfer System (PTS) to minimize the chemical exposure to humans as well as Environment.
3. Water jet pumps procurement done for the cleaning of reactors to minimise the water consumption.
4. Liquid Raw materials storage cupboards are connected to scrubber.
5. Retrofitting of the DG sets done with partial gas & HSD
6. Installed solar lights at safety assembly points.
7. 95.4% renewable energy used for the manufacturing operations.
8. Water conservation initiative started to reduce the intake water.
9. Water sprinklers installed at Hazardous waste storage area.
10. ETP sludge dryer installed at ETP with screw conveyor.
11. Sewage treatment plant erecting and commissioning done to minimize the cost reduction.
12. AHU and air conditioners condensate collected and reused for utilities -1800 KL/Annum.
13. Total 800 Numbers of saplings planted nearby schools and our inside the premises.