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Letter No.: KSPCB/23-24/20

Date: 27.09.2023

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-2022 to March- 2023 - Reg.

AIC

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- 2022 to March -2023.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully, For CIPLA LIMITED.

27.109.2023 MANJUNÁTHAIC ASSOCIATE DIRECTOR.

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



Encl : As above.

Cipla Ltd.

Virgonagar, Old Madros Road, Bangalore, Karnataka - 560 049; India. P +91 80 28471180 F +91 80 28472795, 28472893

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 contanctus@cipla.com Corporate Identity Number L24239MH1935PLC002380 Letter No.: KSPCB/23-24/20

Date: 27.09.2023 29.09.2023 lifford Pin 10 To. The Member Secretary

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

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ASSOCIATE DIRECTOR.

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ENVIRONMENTAL AUDIT STATEMENT 2022 - 2023

CIPLA Ltd BANGALORE

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GENERAL INFORMATION

	A) Name of the Industry		CIPLA LIMITED		
	Address	:	Virgonagar Industrial Area, Old Madras Road, Bangalore – 560 049		
1	State	:	Karnataka		
	Phone		080-28471180		
	Email	1	ciplablr@cipla.com		
2	Ownership		Public Limited Company		
•	Products Manufactured	:	Enclosed in Report		
3	a) Consented Capacity	:	Enclosed in Report		
4	Year of establishment	:	1972		
	OPERATION DURING THE PERIOD OF AUDIT				
	a) Working days per year	:	366		
5	b) Working days per week	:	6 & 5 days alternatively		
	c) No. of working shifts	:	G+3		
6	No. of Employees	:	454		
	Current Approvals	:	Factory License: MYB 3834 Pollution Control Board consent for Water, Air, Authorization for Hazardous Waste Storage & disposal		
7	Water Consent	:	CFO No.: AW-325339 Valid up to: 30.06.2026		
	Air Consent		CFO No.: AW-325339 Valid up to: 30.06.2026		
	Hazardous waste authorization		Authorization No.: 326736 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 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, Quality Control, Quality Assurance and Safety, Health & Environment

1.1 BRIEF DESCRIPTION OF THE SITE:

The Cipla Bangalore plant manufacturing facilities was started in 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 (15.2 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 manufacture of formulations and 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 454 employees, approx. 435 of which are in the management category, the rest being workmen, contractor employees around 298 numbers work with us.

The atmospheric temperature varies from 15.7°C to 37.1°C. The difference of maximum and minimum temperature is more or less constant throughout the year except in rainy seasons.

Site is well laid out providing for safety. Risk prone areas are isolated from the rest and easy access is provided to handle accidents. The master plan showing the built-up area, vacant land, storm water drain and sewer network are enclosed as Annexure to this report.

1.2 QUALITY MANAGEMENT:

The company's quality policy states:

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 rule of Quality Assurance is to coordinate 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, house-keeping, 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.

1.3 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-mediates, finished products and components using classical analytical "wet chemistry" techniques as well as sophisticated instrumentation such as TGA, DSE / 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 an 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 fire fighting facilities including fire hydrant systems. Personnel are continuously trained in all aspects of safety. Smoke detector, LPG detector, Heat detector, PA system, MCP, Hydrogen gas leak detectors, oxygen analyzer system, Central Communication systems are provided to tackle emergency situations.

The unit has a full-fledged Effluent Treatment Plant for the treatment of wastewater. Air emissions are also treated in scientific manner.

1.7 ENVIRONMENT MANAGEMENT SYSTEM (ISO 14001:2015)

Cipla, Bangalore has established and maintaining Environmental Management System (ISO 14001:2015) with effect from 01.10.2016 and the same has been certified by AFNOR Group, France.

1.8 OCCUPATIONAL HEALTH & SAFETY SYSTEM (ISO 45001 - 2018)

Cipla, Bangalore has established and maintaining Occupational Health & Safety System (ISO 45001

:2018) with effect from 01.04.2004 and the same has been certified by AFNOR Group, France.

1.9 ENERGY MANAGEMENT SYSTEM (ISO 50001:2011)

Cipla, Bangalore has established energy management system (ISO 5000I:2011), with effect from September-2015 and the same has been certified by SGS Group Pvt. Ltd.

Note: Surveillance audit for above certifications are conducted yearly as per schedule.

ENVIRONMENTAL AUDIT STATEMENT 2022 - 2023

FORM-V

(SEE RULE 14)

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

PART – A

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

Mr. Manjunatha. C 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

SL.NO.	PRODUCT	UNIT	PRODUCTION CAPACITY (per annum)	PRODUCTION DURING THE CURRENT FINANCIAL YEAR
1.	Amlodipine besylate new process	KG	60000	4403.88
2.	Amlodipine besylate old process	KG	20000	15477.9
3.	Amlodipine Mesylate	KG	3000	1646.06
4.	Anagrelide hydrochloride	KG	60	0
5.	Aprimilast	KG	500	0
6.	Azidothymidine (Zidovudine)	KG	1000	0
7.	Bicalutamide	KG	200	190.7
8.	Capecitabine	KG	1000	0
9.	Carboplatin	KG	60	0
10.	Cisplatin	KG	40	0
11.	Dexlansoprazole	KG	2000	0
12.	Donepezil hydrochloride	KG	1000	487.07
13.	ES omeprazole magnesium dihydra	KG	85000	29131.12
14.	ES omeprazole magnesium trihydra	KG	5000	0
15.	Etoposide	KG	700	213.843
16.	Felodipine	KG	5000	1199.48
17.	Flutamide	KG	150	0
18.	Granisetron base	KG	100	26.625
19.	Granisetron Hydrochloride	KG	50	1.803
20.	Lamotrigine	KG	1000	0

SL.NO.	PRODUCT	UNIT	PRODUCTION CAPACITY (Per annum)	PRODUCTION DURING the current financial year
21.	Lansoprazole New Process	KG	5000	608.56
22.	Lansoprazole old Process	KG	3000	0
23.	Leflunomide	KG	2500	1187.22
24.	Levofloxacin hemihydrate	KG	40000	4196.16
25.	Linagliptin	KG	500	17.581
26.	Lopinavir	KG	3000	0
27.	Nintedanib Esylate	KG	1000	0
28.	Omeprazole	KG	30000	19285.7
29.	Omeprazole Magnesium	KG	2300	0
30.	Omeprazole sodium	KG	2000	1121.2
31.	Oxaliplatin	KG	40	0
32.	Pantoprazole sodium	KG	10000	444.24
33.	Pregabalin	KG	3000	0
34.	Risperidone	KG	1500	371.02
35.	Ritonavir	KG	10000	0
36.	Saxagliptin	KG	300	0
37.	Sitagliptin Phosphate	KG	1000	0
38.	Tenofovir alafenamide fumarate	KG	5000	0
39.	Topiramate	KG	60000	35029.62
40.	Vildagliptin	KG	2000	0
41.	R&D products (non-commercial)	KG	2000	0
	Total quantity	KG	370000	115039.78
		S-QUANTI	TY IN LAKHS /YEAR	
SI.No.	PRODUCTS	UNITS	PRODUCTION CAPACITY (Per annum)	PRODUCTION DURING THE CURRENT FINANCIAL YEAR
1.	Anagaralide Hcl (capsules 0.5 mg)	Lakhs	250	0.00
2.	Anagaralide Hcl (capsules 0.5 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

iv) Date of the last environmental statement submitted: - September 2022 for the year 2021-2022.

PART-B

Water and Raw material consumption:

1) Water consumption in Kilo liters per day:

S.NO	Description	Water consumption permitted by KSPCB(KLD)	Actual consumption Duri Financial Year (KLD)	
1	process	32		
2	Washings	37	50.0	
3	scrubber	20	52.9	
4	QC,R&D,ST	20		
5	Boiler	95	07.0	
6	Cooling	44	27.6	
7	Domestic	45	31.4	
8	Gardening	40	33.4	
Total		333	145.3	

		Process water consumption / unit of product output			
		During the previous Financial year	During the current Financial year		
SI. No.	PRODUCT	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	31.58	31.58		
2.	Amlodipine besylate old process	31.58	31.58		
3.	Amlodipine Mesylate	128.57	128.57		
4.	Anagrelide hydrochloride	138.18	0		
5.	Aprimilast	50.00	0		
6.	Azidothymidine (Zidovudine)	0	0		
7.	Bicalutamide	0	115.75		
8.	Capecitabine	0	0		
9.	Carboplatin	0	0		
10	Cisplatin	0	0		
11.	Dexlansoprazole	0	0		
12.	Donepezil hydrochloride	66.92	66.92		
13.	ES omeprazole magnesium (Di)	24.09	24.09		
14	ES omeprazole magnesium (tri)	0	0		
15.	Etoposide	156.87	156.87		
16.	Felodipine	0	0		
17.	Flutamide	0	0		
L8.	Granisetron base	33.33	33.33		
L9.	Granisetron Hydrochloride	85.00	85.00		
20.	Lamotrigine	0	0		
21.	Lansoprazole New Process	0	124.36		
22.	Lansoprazole old Process	0	0		
23.	Leflunomide	217.40	217.40		
24.	Levofloxacin hemihydrate	16.22	16.22		
25.	Linagliptin	0	0		
26.	Lopinavir	0	0		
27.	Nintedanib Esylate	0	0		
28.	Omeprazole	76.00	76.00		
29.	Omeprazole Magnesium	24.09	0		
30.	Omeprazole sodium	0	0		
31.	Oxaliplatin	0	0		
32.	Pantoprazole sodium	54.05	54.05		
33.	Pregabalin	0	0		
34.	Risperidone	23.30	23.30		

Process water consumption / unit of product output

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35.	Ritonavir	0	0
36.	Saxagliptin	0	0
37	Sitagliptin Phosphate	0	0
38.	Tenofovir alafenamide fumerate	0	0
39.	Topiramate	118.11	118.11
40.	Vildagliptin	0	0
41.	R&D products (non-commercial)	0	0

Raw material consumption					
Name of the raw material	Name of the product	Consumption of raw material per unit output *			
		Previous year	Current yea		
LF-II COMPOUND	LEFLUNOMIDE	1.81	1.81		
SODIUM ACETATE	LEFLUNOMIDE	0.62	0.62		
ACTIVATED CHARCOAL	LEFLUNOMIDE	0.09	0.09		
METHANOL	LEFLUNOMIDE	9.09	9.09		
TOLUENE	LEFLUNOMIDE	21.82	21.82		
HYDROXYLAMINE HCL	LEFLUNOMIDE	0.53	0.53		
HYFLO	LEFLUNOMIDE	0.36	0.36		
FT1	FLUTAMIDE	1.75	-		
SULPHURIC ACID	FLUTAMIDE	14.39	-		
NITRIC ACID	FLUTAMIDE	0.28	-		
HYFLO	FLUTAMIDE	0.18	-		
ALUMINA	FLUTAMIDE	0.18	-		
ACTIVATED CHARCOAL	FLUTAMIDE	0.09	-		
N-HEXANE	FLUTAMIDE	5.96	-		
TOLUENE	FLUTAMIDE	11.84	-		
METHANOL	FLUTAMIDE	4.56	-		
FELOACRYLATE	FELODIPINE	1.67	1.67		
FELOCROTONATE	FELODIPINE	0.63	0.63		
ISOPROPYL ALCOHOL	FELODIPINE	8.34	8.34		
N-HEXANE	FELODIPINE	3.33	3.33		
ISOPROPYL ACETATE	FELODIPINE	5.83	5.83		
ACTIVATED CHARCOAL	FELODIPINE	0.07	0.07		
HYFLO	FELODIPINE	0.21	0.21		
HYDROGEN PEROXIDE	OMEPRAZOLE	0.43	0.43		
ACETIC ACID	OMEPRAZOLE	1.76	1.76		
ETHYL ACETATE	OMEPRAZOLE	0.47	0.47		
NITROGEN GAS	OMEPRAZOLE	0.31	0.31		
01 COMPOUND	OMEPRAZOLE	1.54	1.54		
SODIUM HYDROXIDE FLAKES	OMEPRAZOLE	0.37	0.37		
METHANOL	OMEPRAZOLE	0.20	0.20		
ACTIVATED CHARCOAL	OMEPRAZOLE	0.08	0.08		
HYFLO	OMEPRAZOLE	0.06	0.06		
AMMONIA	OMEPRAZOLE	3.67	3.67		
IPA	LANSOPRAZOLE	14.02	14.02		
LA7	LANSOPRAZOLE	1.52	1.52		

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HYDROGEN PEROXIDE	LANSOPRAZOLE	0.35	0.35
RECTIFIED SPIRIT	LANSOPRAZOLE	24.24	24.24
DP6 COMPOUND	DONEPEZIL HCL	4.00	4.00
ACETIC ACID	DONEPEZIL HCL	20.00	20.00
RECTIFIED SPIRIT	DONEPEZIL HCL	48.00	48.00
METHANOL	DONEPEZIL HCL	42.00	42.00
NITROGEN GAS	DONEPEZIL HCL	2.10	2.10
HYDROGEN GAS	DONEPEZIL HCL	2.10	2.10
DI ISOPROPYL ETHER	DONEPEZIL HCL	34.00	34.00
LIQUOR AMMONIA	DONEPEZIL HCL	20.00	20.00
SODIUM SULPHATE	DONEPEZIL HCL	2.00	2.00
ISOPROPYL ALCOHOL	DONEPEZIL HCL	12.32	12.32
ETHYL ACETATE	DONEPEZIL HCL	248.00	248.00
METHYLENE CHLORIDE	DONEPEZIL HCL	24.00	24.00
HYDROCHLORIC ACID	DONEPEZIL HCL	0.88	0.88
E2 COMPOUND	ETOPOSIDE	1.18	1.18
RECTIFIED SPIRIT	ETOPOSIDE	2.35	2.35
ABSOLUTE ALCOHOL	ETOPOSIDE	0.12	0.12
AMLODIPINE	AMLODIPINE BESYLATE	1.19	1.19
BENZENE SULPHONIC ACID	AMLODIPINE BESYLATE	0.52	0.52
HYFLO	AMLODIPINE BESYLATE	0.02	0.02
ISOPROPYL ALCOHOL	AMLODIPINE BESYLATE	21.43	21.43
ACTIVATED CHARCOAL	TOPIRAMATE	0.23	0.23
TP2 COMPOUND	TOPIRAMATE	1.82	1.82
NITROGEN GAS	TOPIRAMATE	1.25	1.25
PALLADIUM ON CARBON	TOPIRAMATE	0.25	0.25
ETHYL ACETATE	TOPIRAMATE	27.73	27.73
HYDROGEN GAS	TOPIRAMATE	1.90	1.90
SODIUM SULPHATE	TOPIRAMATE	0.30	0.30
HYFLO	TOPIRAMATE	0.12	0.12
ISOPROPYL ALCOHOL	TOPIRAMATE	3.79	3.79
N-HEXANE	TOPIRAMATE	4.33	4.33
ISOPROPYL ALCOHOL	AMLODIPINE MESYLATE	23.81	23.81
HYFLO	AMLODIPINE MESYLATE	0.48	0.48
LIQUOR AMMONIA	AMLODIPINE MESYLATE	0.71	0.71
ETHYL ACETATE	AMLODIPINE MESYLATE	28.57	28.57
METHANE SULPHONIC ACID	AMLODIPINE MESYLATE	0.23	0.23
RS-06	RISPERIDONE	1.00	1.00
RS-08	RISPERIDONE	1.03	1.03
SODIUM SULPHATE ANHYDROU	RISPERIDONE	0.25	0.25
ALUMINA	RISPERIDONE	0.20	0.20
HYFLO	RISPERIDONE	0.25	0.25
POTASSIUM CARBONATE POWD	RISPERIDONE	1.00	1.00

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ETHYL ACETATE	RISPERIDONE	4.50	4.50
ACETO NITRILE	RISPERIDONE	16.25	16.25
N-HEXANE	RISPERIDONE	7.50	7.50
METHYLENE CHLORIDE	RISPERIDONE	23.25	23.25
N-BUTANOL	LEVOFLOXACIN HEMIHYDRATE	6.25	6.25
LVF-4	LEVOFLOXACIN HEMIHYDRATE	1.25	1.25
N-METHYL PIPERAZINE	LEVOFLOXACIN HEMIHYDRATE	2.09	2.09
HYFLO	LEVOFLOXACIN HEMIHYDRATE	0.16	0.16
ISOPROPYL ALCOHOL	LEVOFLOXACIN HEMIHYDRATE	0.31	0.31
RECTIFIED SPIRIT	LEVOFLOXACIN HEMIHYDRATE	0.22	0.22
METHYLENE CHLORIDE	LEVOFLOXACIN HEMIHYDRATE	0.84	0.84
ANG-I	ANAGRELIDE HYDROCHLORIDE	2.95	-
ACTIVATED CHARCOAL	ANAGRELIDE HYDROCHLORIDE	0.45	-
TRIETHYLAMINE	ANAGRELIDE HYDROCHLORIDE	1.64	-
HYFLO	ANAGRELIDE HYDROCHLORIDE	2.05	-
ISOPROPYL ALCOHOL	ANAGRELIDE HYDROCHLORIDE	36.37	-
METHANOL	ANAGRELIDE HYDROCHLORIDE	154.54	-
HYDROCHLORIC ACID	ANAGRELIDE HYDROCHLORIDE	3.91	-
GNA-4	GRANISETRON HCL	1.05	1.05
THIONYL CHLORIDE	GRANISETRON HCL	2.21	2.21
DMF	GRANISETRON HCL	4.20	4.20
EDC	GRANISETRON HCL	13.65	13.65
N-HEXANE	GRANISETRON HCL	6.30	6.30
GNB-4	GRANISETRON HCL	0.95	0.95
HCL GAS IN IPA	GRANISETRON HCL	1.30	1.30
PA7 COMPOUND	PANTOPRAZOLE SODIUM.Sesq.	1.82	1.82
HYDROGEN PEROXIDE	PANTOPRAZOLE SODIUM.Sesq.	0.72	0.72
SODIUM THIOSULPHATE	PANTOPRAZOLE SODIUM.Sesq.	0.24	0.24
ISOPROPYL ALCOHOL	PANTOPRAZOLE SODIUM.Sesq.	4.22	4.22
ACETIC ACID	PANTOPRAZOLE SODIUM.Sesq.	4.21	4.21
SODIUM HYDROXIDE FLAKES	PANTOPRAZOLE SODIUM.Sesq.	3.64	3.64
NITROGEN GAS	PANTOPRAZOLE SODIUM.Sesq.	1.02	1.02
HYFLO	PANTOPRAZOLE SODIUM.Sesq.	0.55	0.55
ACTIVATED CHARCOAL	PANTOPRAZOLE SODIUM.Sesq.	0.16	0.16
METHANOL	PANTOPRAZOLE SODIUM.Sesq.	1.81	1.81
ISOPROPYL ACETATE	PANTOPRAZOLE SODIUM.Sesq.	9.09	9.09
DI ISOPROPYL ETHER	PANTOPRAZOLE SODIUM.Sesq.	18.16	18.16
ACETONE	PANTOPRAZOLE SODIUM.Sesq.	2.40	2.40
SODIUM NITRITE	AZIDOTHYMIDINE		
SULPHURIC ACID	AZIDOTHYMIDINE		
DMSO	AZIDOTHYMIDINE		
TAC	AZIDOTHYMIDINE		
SODIUM AZIDE	AZIDOTHYMIDINE	-	

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SODIUM CHLORIDE	AZIDOTHYMIDINE		
ACTIVATED CHARCOAL	AZIDOTHYMIDINE		
HYFLO	AZIDOTHYMIDINE	_	· · · · · · · · · · · · · · · · · · ·
SODIUM HYDROXIDE FLAKES	AZIDOTHYMIDINE	<u> </u>	
TOLUENE	AZIDOTHYMIDINE		
METHANOL	AZIDOTHYMIDINE		
ETHYL ACETATE	AZIDOTHYMIDINE		
01 COMPOUND	ES OMEPRAZOLE MEGNESIUM. DI	2.89	2.89
METHANOL	ES OMEPRAZOLE MEGNESIUM. DI	3.14	3.14
ACETONE	ES OMEPRAZOLE MEGNESIUM. DI	1.71	1.71
ETHYL ACETATE	ES OMEPRAZOLE MEGNESIUM. DI	0.53	0.53
MEGNESIUM CHLORIDE	ES OMEPRAZOLE MEGNESIUM. DI	0.20	0.20
HEXAHYDRATE		0.38	0.38
HYPLO SUPER CEL	ES OMEPRAZOLE MEGNESIUM. DI	0.27	0.27
TOLUENE	ES OMEPRAZOLE MEGNESIUM. DI	3.96	3.96
DIETHYL TARTARATE	ES OMEPRAZOLE MEGNESIUM. DI	0.55	0.55
SODIUM SULPHATE ANHYDROU	ES OMEPRAZOLE MEGNESIUM. DI	0.58	0.58
CUMMENE HYDROPEROXIDE	ES OMEPRAZOLE MEGNESIUM. DI	3.36	3.36
POTASIUM HYDROXIDE FLAKES	ES OMEPRAZOLE MEGNESIUM. DI	1.70	1.70
SODIUM BICARBONATE	ES OMEPRAZOLE MEGNESIUM. DI	0.06	0.06
DICHLOROMETHANE	ES OMEPRAZOLE MEGNESIUM. DI	13.11	13.11
ACITIC ACID	ES OMEPRAZOLE MEGNESIUM. DI	0.46	0.46
N2 GAS	ES OMEPRAZOLE MEGNESIUM. DI	0.28	0.28
BLT-2	BICALUTAMIDE	-	1.32
ACETIC ACID	BICALUTAMIDE	-	7.5
HYDROGEN PEROXIDE -50%	BICALUTAMIDE	-	1.88
SULPHURIC ACID CONC	BICALUTAMIDE	-	0.09
DICHLOROMETHANE	BICALUTAMIDE	-	5.8
SODIUM HYDROXIDE FLAKES	BICALUTAMIDE	- 	3.13
ACETONE	BICALUTAMIDE	-	2.68
ACTIVATED CHARCOAL	BICALUTAMIDE		0.19
N-HEXANE	BICALUTAMIDE	-	2.14
N2 GAS	BICALUTAMIDE	-	0.80
TOLUNE	BICALUTAMIDE	-	5.00
POTTASSIUM TERTIARY BUTOXI	BICALUTAMIDE	-	0.72
4-FLURO-THIOPHENOL	BICALUTAMIDE	-	0.93
SODIUM SULPHATE ANAHYDRO	BICALUTAMIDE	-	0.40
TETRA HYDRO FURAN	BICALUTAMIDE	-	1.47
ETHYL ACETATE	BICALUTAMIDE	-	0.40
CPT-1	CAPECITABINE	1.30	-
DICHLOROMETHANE	CAPECITABINE	6.89	-
PYRIDINE	CAPECITABINE	1.31	-
N-PENTYLCHLORO FORMATE	CAPECITABINE	1.19	

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HYDROCHLORIC ACID	CAPECITABINE	0.52	
METHANOL	CAPECITABINE	1.55	-
SODIUM HYDROXIDE FLAKES	CAPECITABINE	0.46	
ETHYL ACETATE	CAPECITABINE	0.58	-
DI-ISOPROPYL ETHER	CAPECITABINE	3.25	-
N2 GAS	CAPECITABINE	0.07	-
POTASSIUM TETRACHLOROPLTINATE	CISPLATIN	2.01	-
SILVER NITRATE	CISPLATIN	1.54	-
POTASSIUM CHLORIDE	CISPLATIN	0.76	-
HYFLO SUPER CEL	CISPLATIN	2.87	-
ETHANOL	CISPLATIN	1.60	4
DIETHYL ETHER	CISPLATIN	2.24	
DIMETHYL FORMAMIDE	CISPLATIN	4.16	
HYDROCHLORIC ACID	CISPLATIN	77.61	-
N2 GAS	CISPLATIN	1.20	-
POTTASIUM IODIDE	CISPLATIN	4.77	-
LIQ AMMONIA	CISPLATIN	0.80	-
POTASSIUM TETRACHLOROPLATINATE	OXALIPLATIN	-	T e
1,2 DIAMINOCYLOHEXANE	OXALIPLATIN		-
SILNER NITRATE	OXALIPLATIN	-	-
HYFLO SUPER CEL	OXALIPLATIN	-	-
ACTIVATED CHARCOAL	OXALIPLATIN		L.
POTASSIUM CHLORIDE	OXALIPLATIN	-	•
N2 GAS	OXALIPLATIN	-	-
POTASSIUM OXALATE	OXALIPLATIN	-	
CIP	CARBOPLATIN	2.18	-
CBDCA	CARBOPLATIN	0.71	-
SODIUM HYDROXIDE FLAKES	CARBOPLATIN	0.39	
SILVER NITRATE	CARBOPLATIN	1.76	-
ETHANOL	CARBOPLATIN	1.68	-
HYPLO SUPER CEL	CARBOPLATIN	4.85	-
DIMETHYL FORMAMIDE	CARBOPLATIN	1.90	-
N2 GAS	CARBOPLATIN	0.45	
2,3 DICHLOROBENZOYL CYANII	LAMOTRIGINE	-	- 1 4
SULFURIC ACID CONC	LAMOTRIGINE	-	-
AMINOGUANIDINE BICARBONA	LAMOTRIGINE	-	
ACETONITRILE	LAMOTRIGINE	-	-
SODIUM HYDROXIDE FLAKES	LAMOTRIGINE	-	-
POTASSIUM HYDROXIDE FLAKE	LAMOTRIGINE	-	-
METHANOL	LAMOTRIGINE	-	-
ACTIVATED CHARCOAL	LAMOTRIGINE	-	-

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HYFLO SUPER CEL	LAMOTRIGINE	-	-
N2 GAS	LAMOTRIGINE	-	-
LA-7	DEXLANSOPRAZOLE	1.19	-
(+) – DIETHYL TARTARATE	DEXLANSOPRAZOLE	0.43	
CUMENE HYDROPEROXIDE	DEXLANSOPRAZOLE	1.89	-
DIPEA	DEXLANSOPRAZOLE	2.5	-
TOLUENE	DEXLANSOPRAZOLE	1.9	-
DICHLOROMETHANE	DEXLANSOPRAZOLE	3.17	
ACETONE	DEXLANSOPRAZOLE	1.12	-
ISOPROPYL ALCOHOL	DEXLANSOPRAZOLE	0.88	-
SODIUM THIOSULPHATE	DEXLANSOPRAZOLE	0.7	-
SODIUM HYDROXIDE FLAKES	DEXLANSOPRAZOLE	0.48	-
ACITIC ACID	DEXLANSOPRAZOLE	0.24	-
N2 GAS	DEXLANSOPRAZOLE	0.20	
PTHALOYL AMLODIPINE	AMLODIPINE MESYLATE	-	1.429
MONOMETHYL AMINE	AMLODIPINE MESYLATE	-	6.991
DICHLOROMETHANE	AMLODIPINE MESYLATE	-	21.453
ETHYL ACETATE	AMLODIPINE MESYLATE		34.254
METHANE SULFONIC ACID	AMLODIPINE MESYLATE		0257
METHANOL	AMLODIPINE MESYLATE	-	1.169
ISOPROPYL ALCOHOL	AMLODIPINE MESYLATE	-	3.032
N2 GAS	AMLODIPINE MESYLATE	-	0.080
ACTIVATED CHARCOAL	AMLODIPINE MESYLATE	-	0.143
HYFLO SUPER CEL	AMLODIPINE MESYLATE	-	0.095
SODIUM CHLORIDE	AMLODIPINE MESYLATE	-	0.191
4-AMINO-2-(I-(3-ETHOXY-4- METHOXYPHENYL)-2- (METHYLSULFONYL)ETHYL) ISOINDOLINE-1,3-DIONE)	APRIMILAST	1.8	-
ACETIC ANHYDRIDE	APRIMILAST	5.0	
ACETIC ACID	APRIMILAST	20.0	-
METHNAOL	APRIMILAST	50.0	-
DICHLOROMETHANE	APRIMILAST	40.0	-
ACTIVATED CHARCOAL	APRIMILAST	0.25	-
N2 GAS	APRIMILAST	0.200	1
1,2,3 TRIACETOXY 5-DEOXYRIB	CAPECITABINE	-	-
5-FLUORO CYTOSINE	CAPECITABINE	-	-
SODIUM BICARBONATE COMMERCIAL GRADE	CAPECITABINE	-	_
SODIUM SULPHATE ANHYDROU	CAPECITABINE	-	_
HEXAMETHYL DISILAZANE	CAPECITABINE	-	-
STANNIC CHLORIDE	CAPECITABINE	-	-
METHANE SULPHONIC ACID	CAPECITABINE	-	

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TOLUENE	CAPECITABINE	T	
DICHLORIOMETHANE			-
		-	
PYRIDINE	CAPECITABINE		
N-PENTYL CHLORO FORMATE	CAPECITABINE	-	-
HYDROCHLORIC ACID	CAPECITABINE	-	
METHANOL	CAPECITABINE	-	-
SODIUM HYDROXIDE FLAKES	CAPECITABINE	-	-
ETHYL ACETATE	CAPECITABINE	-	-
DI-ISOPROPYLETHER	CAPECITABINE	-	-
N2 GAS	CAPECITABINE	-	-
B-5 HCL	ES OMEPRAZOLE MAGNESIUM TRIHYDRATE	-	-
ACETIC ACID	ES OMEPRAZOLE MAGNESIUM TRIHYDRATE	-	-
HYDROGEN PEROXIDE 50%	ES OMEPRAZOLE MAGNESIUM TRIHYDRATE	-	-
ETHYL ACETATE	ES OMEPRAZOLE MAGNESIUM	-	-
LIQ AMMONIA (20%)	ES OMEPRAZOLE MAGNESIUM	-	•
SODIUM HYDROXIDE FLAKES	ES OMEPRAZOLE MAGNESIUM	-	-
METHANOL	ES OMEPRAZOLE MAGNESIUM	-	-
ACTIVATED CHARCOAL	ES OMEPRAZOLE MAGNESIUM	-	
SODIUM METABISULFITE	ES OMEPRAZOLE MAGNESIUM TRIHYDRATE	-	-
HYFLO SUPER GEL	ES OMEPRAZOLE MAGNESIUM TRIHYDRATE	-	•
N2 GAS	ES OMEPRAZOLE MAGNESIUM	-	-
DICHLOROMETHANE	ES OMEPRAZOLE MAGNESIUM TRIHYDRATE	-	-
2-MERCAPTO 5 METHOXY	ES OMEPRAZOLE MAGNESIUM	-	-
BENZIMIDAZOLE	TRIHYDRATE		
TETRABUTYL AMMONIUM BRON	ES OMEPRAZOLE MAGNESIUM TRIHYDRATE	-	-
THIONYL CHLORIDE	ES OMEPRAZOLE MAGNESIUM TRIHYDRATE	-	
SODIUM SULFATE ANHYDROUS	ES OMEPRAZOLE MAGNESIUM	-	-
ISOPROPYL AMINE	ES OMEPRAZOLE MAGNESIUM	-	•

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AMMONIUM MOLYBDATE (AS	ES OMEPRAZOLE MAGNESIUM	-	-
TETRAHYDRATE)	TRIHYDRATE		
MAGNESIUM SULPHATE	ES OMEPRAZOLE MAGNESIUM	-	-
HEPTAHYDRATE	TRIHYDRATE		
1-METHYL -L-1H-INDAZOLE-3- CARBOXYLIC ACID	GRANISETRON BASE		1.133
THIONYL CHLORIDE	GRANISETRON BASE	-	2.833
GNB-4	GRANISETRON BASE	-	1.133
TOLUENE	GRANISETRON BASE	-	5.202
N-HEPTANE	GRANISETRON BASE	-	11.950
DICHLOROMETHANE	GRANISETRON BASE	-	35.333
TRIETHYL AMINE	GRANISETRON BASE	-	1.700
SODIUM BICARBONATE	GRANISETRON BASE	-	0.567
HYDROCHLORIC ACID	GRANISETRON BASE	-	1.102
LIQ.AMMONIA	GRANISETRON BASE	-	1.224
8 BROMO XANTHINE DVT	LINAGLIPTIN	-	2.5
CHLORO QUINAZOLINE	LINAGLIPTIN	-	1.8
POTASSIUM CARBONATE	LINAGLIPTIN	-	3.5
DMF	LINAGLIPTIN	-	61.43
TOLUENE	LINAGLIPTIN	-	26.01
ACETIC ACID	LINAGLIPTIN	-	2.942
R-BOC AMINO PIPERIDINE	LINAGLIPTIN	-	7.3
POTASSIUM CARBONATE	LINAGLIPTIN	-	10.00
METHANOL	LINAGLIPTIN	-	35.64
PHOSPHORIC ACID	LINAGLIPTIN	-	74.18
MDC	LINAGLIPTIN	-	33.13
ETHYL ACETATE	LINAGLIPTIN	-	10.8
CITRIC ACID	LINAGLIPTIN	-	0.85
ETHANOL	LINAGLIPTIN	-	25.28
LIQ.AMMONIA SOLUTION	LINAGLIPTIN	-	22.5
N2 GAS	LINAGLIPTIN	-	0.3
B-5 HCL	OMEPRAZOLE SODIUM	-	1.040
ACETIC ACID	OMEPRAZOLE SODIUM	-	0.832
HYDROGEN PEROXIDE 50%	OMEPRAZOLE SODIUM	-	0.388
ETHYL ACETATE	OMEPRAZOLE SODIUM	-	7.719
LIQ.AMMONIA(20%)	OMEPRAZOLE SODIUM	-	0.250
SODIUM HYDROXIDE FLAKES	OMEPRAZOLE SODIUM	-	1.653
METHANOL	OMEPRAZOLE SODIUM	-	13.915
SODIUM METABISULFITE	OMEPRAZOLE SODIUM	-	0.042
N2 GAS	OMEPRAZOLE SODIUM	-	0.40
DICHLOROMETHANE	OMEPRAZOLE SODIUM	-	13.472
THIONYL CHLORIDE	OMEPRAZOLE SODIUM	-	0.832
DI ISO PROPYL ETHER	OMEPRAZOLE SODIUM	-	12.609

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RECTIFIED SPIRIT	OMEPRAZOLE SODIUM	-	2.664
LOPI BOC	LOPINAVIR	-	
SODIUM BICARBONATE	LOPINAVIR	-	-
SODIUM HYDROXIDE FLAKES	LOPINAVIR	-	-
SODIUM CHLORIDE	LOPINAVIR	-	-
METHANOLIC HYDROCHLORIDE (10-15%)	LOPINAVIR	-	-
METHANOL	LOPINAVIR	-	-
METHYLENE CHLORIDE	LOPINAVIR	-	-
REC MDC FROM LOPINAVIR	LOPINAVIR	/ -	-
TOLUENE	LOPINAVIR	-	-
HEXANE	LOPINAVIR	-	i de la compañía de l
N,N-DIISOPROPYLETHYLAMINE	LOPINAVIR	-	-
ETHYL ACETATE	LOPINAVIR	-	-
N-HEPTANE	LOPINAVIR	-	
N-BUTANOL	LOPINAVIR	-	-
IPA	LOPINAVIR	-	-
SODIUM CHLORIDE	LOPINAVIR	-	-
SODIUM BICARBONATE	LOPINAVIR	-	-
N2 GAS	LOPINAVIR	-	-
RITO ACID COMPOUND	RITONAVIR	-	-
1-HYDROXY BENZOTRIAZOLE HYDRATE	RITONAVIR	-	-
N,N DICYCLOHEXYL CARBODIM	RITONAVIR	-	-
SODIUM BICARBONATE	RITONAVIR	-	
SODIUM CHLORIDE	RITONAVIR	-	
SODIUM SULPHATE ANHYDROU	RITONAVIR	-	-
HCL	RITONAVIR	-	· · ·
LIQ.AMMONIA	RITONAVIR		-
RITO BDH COMPOUND	RITONAVIR	-	
RITO NCT COMPOUND	RITONAVIR	-	-
TOLUENE	RITONAVIR	-	-
ETHYL ACETATE	RITONAVIR	-	
L-PROLINAMIDE	VILDAGLIPTIN		-
CHLORO ACETYL CHLORIDE	VILDAGLIPTIN	-	-
3-HYDROXY-1-AMINOADAMANT (VDN-AMINE	VILDAGLIPTIN	-	-
POTASSIUM IODIDE	VILDAGLIPTIN	-	
POTASSIUM CARBONATE	VILDAGLIPTIN	-	
AMMONIUM BICARBONATE	VILDAGLIPTIN	-	
TRIFLUORO ACETIC ANHYDRIDE	VILDAGLIPTIN	-	-
METHANOLIC AMMONIA SOLUTI	VILDAGLIPTIN	-	
METHYLENE DICHLORIDE	VILDAGLIPTIN	-	-

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TETRAHYDRAFURAN	VILDAGLIPTIN	-	
ACETONE	VILDAGLIPTIN	-	-
IPA	VILDAGLIPTIN	-	
SODIUM CHLORIDE	VILDAGLIPTIN	-	
N2 GAS	VILDAGLIPTIN		-
DIMETHYL CARBONATE	SITAGLIPTIN PHOSPHATE	-	
TRIETHYL AMINE	SITAGLIPTIN PHOSPHATE		
HCL	SITAGLIPTIN PHOSPHATE	-	-
IPA.HCL	SITAGLIPTIN PHOSPHATE	_	-
LIQ.AMMONIA	SITAGLIPTIN PHOSPHATE	_	-
DIISOPROPYL ETHER	SITAGLIPTIN PHOSPHATE	-	-
ETHYL ACETATE	SITAGLIPTIN PHOSPHATE	-	-
IPA	SITAGLIPTIN PHOSPHATE	-	-
PHOSPHORIC ACID	SITAGLIPTIN PHOSPHATE	-	-
ISOPROPYL ACETATE	SITAGLIPTIN PHOSPHATE	-	
N2 GAS	SITAGLIPTIN PHOSPHATE	-	
BOC-3-HYDROXY-1-ADAMANTYL	SAXAGLIPTIN	-	-
		·	
CARBOXAMIDE MESYLATE	SAXAGLIPTIN	-	-
	SAXAGLIPTIN		· ·
1-HYDROXYBENZOTRIAZOLE	SAXAGLIPTIN		
TEA	SAXAGLIPTIN	-	
MDC	SAXAGLIPTIN		
n-HEPTANE	SAXAGLIPTIN		-
	SAXAGLIPTIN		
SODIUM HYDROXIDE FLAKES	SAXAGLIPTIN	-	
TFAA	SAXAGLIPTIN		
THF	SAXAGLIPTIN	-	
POTASSIUM CARBONATE POWE 40MESH	SAXAGLIPTIN	-	-
IPA	SAXAGLIPTIN	-	-
ACETONE	SAXAGLIPTIN		-
METHANOL	R&D PRODUCTS(NON-COMMERCIAL		
ACETONE	R&D PRODUCTS(NON-COMMERCIAL		
MDC	R&D PRODUCTS(NON-COMMERCIAL	-	
ISOPROPYLALCOHOL	R&D PRODUCTS(NON-COMMERCIAL		-
ACTIVATED CHARCOAL	R&D PRODUCTS(NON-COMMERCIAL		-
SODIUM SULPHATE ANHYDROU	R&D PRODUCTS(NON-COMMERCIAL		-
HYFLO SUPERCEL	R&D PRODUCTS(NON-COMMERCIAL		-
N2 GAS	R&D PRODUCTS(NON-COMMERCIAL		
Dimethyl Formamide (AR Grade	· · · · · · · · · · · · · · · · · · ·	-	-
Tenofovir Alafenamide Fumarat		-	-
Purified water	TAF	-	-

-

ENVIRONMENTAL AUDIT STATEMENT REPORT

3-Isobutyl-pentanedioic acid			-
dimethyl ester	PREGABALIN		
[PGN DME]			
Acetone	PREGABALIN	-	-
Ammonia gas (Anhydrous)	PREGABALIN	-	-
Dipotassium Hydrogen Phospha	PREGABALIN	-	
Hydrochloric Acid – Cp.	PREGABALIN	-	-
Hyflo Supercel	PREGABALIN	-	-
Methanol	PREGABALIN	-	
Nitrogen Gas	PREGABALIN	-	-
Sodium Hydroxide Flakes	PREGABALIN	-	-
Toluene	PREGABALIN	-	-
CAL B ENZYME	PREGABALIN	-	-
Anhydrous Calcium Chloride	PREGABALIN	-	-
TERT-BUTANOL	PREGABALIN	-	
Purified water	PREGABALIN	-	-
Potable water	PREGABALIN		-

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

ENVIRONMENTAL AUDIT STATEMENT REPORT

PART-C

Pollution discharged to environment / unit of output parameters as specified in the consent issued.

Pollutants	Quantity of pollutants discharged (mass / day)	Concentrations of pollutants in discharges (mass / volume)	Percentages of variation from prescribed stds. with reasons
WATER POLLUTION			
рН	_	7.4	Within the limit
COD	2.91 kg/day	24 mg/l	Within the limit
TDS	56.84 kg/day	469.19 mg/l	Within the limit
BOD	0.71 kg/day	5.90 mg/l	Within the limit

* We are not discharging final treated water, utilizing in cooling towers and boiler as makeup

AIR POLLUTION:

AMB	IENT	AIR	Qua	lity
-----	------	-----	-----	------

SPM pm 10	60.2 µg/m3	within the limit
SPM pm 2.5	27.5 µg/m3	within the limit
S02	14.7 µg/m3	within the limit
NOx	20.6 µg/m3	within the limit
Lead (Pb)	BDL µg/m3	within the limit
Carbon Monoxide (CO)	0.8 µg/m3	within the limit
Ammonia	22.8 µg/m3	within the limit
Benzene	BDL µg/m3	within the limit

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Benzo (a) pyrene, (BaP)	BDL µg/m3	within the limit
Arsenic, (AS)	BDL µg/m3	within the limit
Nickel, (Ni)	BDL µg/m3	within the limit
Ozone, (03)	12.9 µg/m3	within the limit
Hydrogen Sulphide(H2S)	3 ppm	within the limit

* 24 Hours average

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STACKS:

E2-SCR-27	Average Results	Limits
SPM	13.6mg/Nm3	150 MAX
Acid mist	5.0mg/m3	50 Max
E2-SCR-29	-	-
SPM	10.4mg/Nm3	150 MAX
Acid mist	4.0mg/m3	50 Max
E2-SCR-30/B	-	
SPM	6.8mg/Nm3	150 MAX
Acid mist	3.4mg/m3	50 Max
E2-SCR-31/B	-	•
SPM	15.5mg/Nm3	150 MAX
Acid mist	5.9mg/m3	50 Max
E2-SCR-32/B	-	-
SPM	13.0mg/Nm3	150 MAX
Acid mist	5.3mg/m3	50 Max
E6-SCR-69	-	· ·
SPM	13.9mg/Nm3	150 MAX
Acid mist	6.4mg/m3	50 Max
E6-SCR-70	-	-
SPM	12.8mg/Nm3	150 MAX
Acid mist	5.6mg/m3	50 Max
E3-SCR-38	-	
SPM	13.5mg/Nm3	150 MAX
Acid mist	5.7mg/m3	50 Max
E3-SCR-39	-	-
SPM	13.6mg/Nm3	150 MAX
Acid mist	6.0mg/m3	50 Max
SY-1-SCR-31	-	
SPM	13.0mg/Nm3	150 MAX
Acid mist	5.9mg/m3	50 Max
SYN-7-SCR-116	Average Results	Limits
SPM	10.2mg/Nm3	150 MAX
Acid mist	3.9mg/m3	50 Max

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RD-SCR-E59	Average Results	Limits
SPM	13.7mg/Nm3	150 MAX
Acid mist	5.7mg/m3	50 Max
RD-SCR-060	-	-
SPM	13.9mg/Nm3	150 MAX
Acid mist	6.2mg/m3	50 Max
L-III-SCR-42	-	-
SPM	0mg/Nm3	150 MAX
Acid mist	0mg/m3	50 Max
L-II-SCR-55	-	-
SPM	11.5mg/Nm3	150 MAX
Acid mist	5.0mg/m3	50 Max
E4-SCR-182	-	-
SPM	15 Emg/Nm2	150 MAX
Acid mist	15.5mg/Nm3	50 Max
E4-SCR-183	5.6mg/m3	50 max
SPM		150 MAX
	13.5mg/Nm3	
Acid mist	5.0mg/m3	50 Max
E4-SCR-184	-	
SPM	13.7mg/Nm3	150 MAX
Acid mist	5.6mg/m3	50 Max
E4-SCR-185	-	-
SPM	13.7mg/Nm3	150 MAX
Acid mist	6.4mg/m3	50 Max
QC-SCR-01	-	
SPM	15.8mg/Nm3	150 MAX
Acid mist	5.0mg/m3	50 Max
DG 1250 KVA	-	
SPM	31.53 mg/Nm3	75 Max
SO ₂	13.13 ppm	
Nox	134.76 ppm	700 Max
NMHC	23.26 ppm	100 Max
CO	54.17 ppm	150 Max
DG 1500(1) KVA	-	-
SPM	41.06 mg/Nm3	75 Max
SO ₂	13.51 ppm	-

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NOx	165.33 ppm	700 Max
NMHC	28.53ppm	100 Max
CO	61.83 ppm	150 Max
DG 1500(2)KVA	-	÷
SPM	39.36 mg/Nm3	75 Max
S0 ₂	13.55 ppm	
NOx	143.55 ppm	700 Max
NMHC	24.53 ppm	100 Max
СО	67.75 ppm	150 Max
DG 1500 (3)KVA	-	-
SPM	40.94 mg/Nm3	75 Max
S0 ₂	14.75 ppm	-
NOx	139.48 ppm	700 Max
NMHC	23.20 ppm	100 Max
CO	58.92 ppm	150 Max
3 TPH Boiler (KTK-2957)	-	-
SPM	8.4 mg/Nm3	150 Max
S0 ₂	5.01 ppm	
NOx	7.93 ppm	-
Acid Mist	0 mg/Nm ³	50 Max
3 TPH Boiler (KTK-3919)	-	· · · · ·
SPM	2.51 mg/Nm3	150 Max
S0 ₂	1.28 ppm	4
Nox	2.27 ppm	-
Acid Mist	0 mg/Nm ³	50 Max

PART-D

HAZARDOUS AND OTHER WASTE DETAILS

(As specified under Hazardous and other Waste Management and Handling Rules amendment, 2016)

		Total quantity (Kg)				
SL.NO	Hazardous waste	During the pre financial year	evious	During the current financial year		
		Generation	Disposal	Generation	Disposal	
Α	From process					
1	Distillation residues	2243	2243	0	0	
2	process residue and wastes	63404	63429	74406	75204	
3	Date -Expired products	979	979	1945	1945	
4	Off specification products	278	278	327	327	
5	Spent organic solvents generated from antimicrobial products(lts)	46350	46350	81050	81050	
6	Spent carbon	22110	21940	4110	4280	
7	spent catalyst	231	231	259	259	
8	Empty barrels/ containers/liners/contaminated with hazardous chemicals/wastes.	43310	43610	99871	99032	
9	Contaminated cotton rags or other cleaning	4622	4892	3910	3910	
10	Sludge from wet scrubber	0	0	0	0	

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		SOLI	DWASTES			
SL	Total quantity (Kg)					
N O	Solid Waste	During the previous financial year		During the current financial year		
		Generation	Disposal	Generation	Disposal	
В		Effluent Treatment	plant process	residues		
1	ATFD powder	138780	145685	105540	110070	
2	ETP Sludge	261500	268655	174120	174155	
3	Chemical sludge from wastewater treatment	0	0	0	0	
С	Q	uantity recycled or	reutilized with	in the unit		
1	Spent Used oil (Ltrs)	4625	6225	6260	6260	
2	Spent Solvents (Ltrs)	3584451	3584451	3774863	3774863	

PART - E

** Spent solvent, Spent Used oil disposed to recyclers

Other waste generation and disposal details

SOLID WASTE

	Solid Waste	Total quantity (Kg)				
SL.NO		During the previou	is financial year	During the cur	During the current financial year	
		Generation	Disposal	Generation	Disposal	
	From process and Main	tenance activity				
1	Glass waste in non- dispersible form	12455	12255	18988	19133	
2	Ceramic waste in non- dispersible form	0	0	0	0	
3	Waste electrical & electronic assemblies	2528	2528	10817	10817	
4	Spent activated carbon	0	0	0	0	
5	Rubber Waste	0	0	0	0	
6	Resins, Latex, Plastizers, Glues & adhesives	0	0	0	0	
7	Iron & steel scrap	168778	163916	170532	175394	
8	Paper, Paperboard, & Paper Product wastes	57815	57705	75134	75244	
9	Untreated cork & wood waste	13183	13183	7969	7969	

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	E-WASTE DIS	POSAL (Fr	om April 2022 to March	-2023)
S.NO	E-Waste item	UOM	Quantity Generated	Quantity Disposed
1	E-Waste item	KG	0	0

Biomedical waste disposal details (From January 2022 to December 2022)

S.No	Category	UOM	Quantity generated	Quantity Disposed
1	Yellow	kg	451.23	451.23
2	Red	kg	1.6	1.6
3	White	kg	0.32	0.32
4	Blue	kg	0	0

PART-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.

SI. No	Type of hazardous waste	Category of wastes	Characterization	Treatment
1.	Distillation residues	20.3	Semi solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator
2.	Process residue & waste	28.1	Solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator
3.	Spent catalyst	28.2	Solid & Flammable	Spent catalyst is sent for regeneration.
4.	Spent carbon	28.3	Solid & Flammable	Spent carbon Incinerated at KSPCB Authorized Common Incinerator.
4.	Off specification products	28.4	Solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator
5.	Date-expired products	28.5	Solid & Flammable	Incinerated at Authorized Common Incinerator
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.

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8.	Spent solvent.	28.6	Liquid, Flammable & Recyclable	Sold to KPCB authorized	
9.	Empty Barrels /containers/liners contaminated with hazardous chemicals/ wastes	33.1	Recyclable	recycler.	
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	Sent to authorized recyclers for composting. Disposed to TSDF for Landfill.	
11.	Contaminated cotton rags Or other cleaning	33.2	Solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator	
12.	Sludge from wet scrubber	37.1	Solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator	

SI. No	Type of Other waste	Category of wastes	Characterization	Treatment
13.	Glass waste in non dispersible form	B1110	Solid & Non- Flammable	Sold to KPCB authorized recycler.
14.	Ceramic waste in non-dispersible form	Schedule-III, part -B	Solid & Non- Flammable	Sold to KPCB authorized recycler.
15.	Waste electrical and electronic assemblies	Schedule-III, part -B & part D	Solid & Non- Flammable	Sold to KPCB authorized recycler.
16.	Spent activated carbon(Without contamination)	B2020	Solid & Non- Flammable	Sold to KPCB authorized recycler.
17.	Rubber waste	Schedule-III, part -B	Solid & Non- Flammable	Sold to KPCB authorized recycler.
18.	Resins, Latex, plastizers, glues & adhesives	B2030	Solid & Non- Flammable	Sold to KPCB authorized recycler.
19.	Iron and steel scrap	Schedule-III, part -B	Solid & Non- Flammable	Sold to KPCB authorized recycler.
20.	Paper, paperboard & paper Product wastes.	B2060	Solid & Non- Flammable	Sold to KPCB authorized recycler.
21.	Untreated cork & wood waste	Schedule-III, part -B B3040	Solid & Non- Flammable	Sold to KPCB authorized recycler.
22.	Metal and Metal- alloys wastes In Metallic ,Non- dispersible :- thorium scrap, rare earths scrap	Schedule-III, part -B B1010	Solid & Non- Flammable	Sold to KPCB authorized recycler.

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PART-G

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

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 and boiler.

PART-H

Additional measures / investment done for environmental protection including abatement of pollution, prevention of pollution.

- 1) Environmental awareness training programs are conducted for all the Employees to minimize wastage and consumption of water.
- 2) Very good greenery is maintained.
- 3) The effluent analysis and air emission checks are carried out every month and submitted to the board as per the consent conditions and they are within the limits.

S. No.	Particulars of the Asset	Gross block Value Rs. (in Lacks)
1.	Recertification Audit ISO:14001 & ISO :45001	2.3
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	40.0
6.	Measurable instrument (Flow meters)	3.4
7.	Noncorrosive Painting at ETP	4.0
8.	Maintenance and fabrication work	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.	Peddle Dryer	38.0
	Grand Total	139.4

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PART-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 -2022.
- 2. Implemented of ISO-50001(Energy Management System) is initiated to achieve significant energy savings in a systematic way.
- 3. 20kl above ground storage tank with solvent batching system installed for storage and distribution of mono methyl amine solvent in closed loop, which eliminates the drum handling and solvent exposure to the operating personnel.
- 4. Operation such as solid raw material charging to reactor is done by closed loop by installing 5 numbers of Powder Transfer System (PTS) to minimize the chemical exposure to humans as well as Environment.
- 5. Above ground fire hydrant system installed and commissioned for better control of water leakages.
- 6. Host alloy condensers have installed in place of graphite for minimizing the solvent loss, which is due the high heat transfer co-efficient of hast-alloy material.
- 7. 32.4 MT of carbon footprint is reduced by replacing CFL light fittings with LED light fittings.
- 8. Underground tanks 5 numbers of MS tanks replaced with Stain less steel tanks which includes RCC dikes with leachate collection pit to identify any leakage of solvents in future.
- 9. Above ground tanks installed for solvents (MDC, MMA, ACITIC ACID,) safe handling and reduce manual work as well as for reduce the drum.
- 10. Liquid Raw materials storage cupboards are connected to scrubber.
- 11. New OHC facility constructed with all required amenities.
- 12. Annual medical check-up initiated to all contract workers also at our site
- 13. Safety nets and additional cameras are installed to all open tanks as a additional safety.
- 14. DG synchronisation carried out for power saving, Biodiesel blending also done for clean emissions.
- 15. Installed solar lights at safety assembly points.
- 16. Dedicated power feeder installed resulting reduction in running DG hours.

- 17. Water conservation initiative started to reduce the intake water.
- 18. Project initiated to reduce carbon footprint PNG gas used instead of FO as a fuel in the boiler.
- 19. FO usage eliminated from the site as a part of environment sustainability.
- 20. Water sprinklers installed at Hazardous waste storage area.
- 21. ETP sludge drying installed at ETP with screw conveyor.
- 22. Sewage treatment plant construction under progress.

Highlights and improvements:

Online continuous AAQMS Installation at site





Online Continuous AAQMS station:

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Site details on Digital Display Board

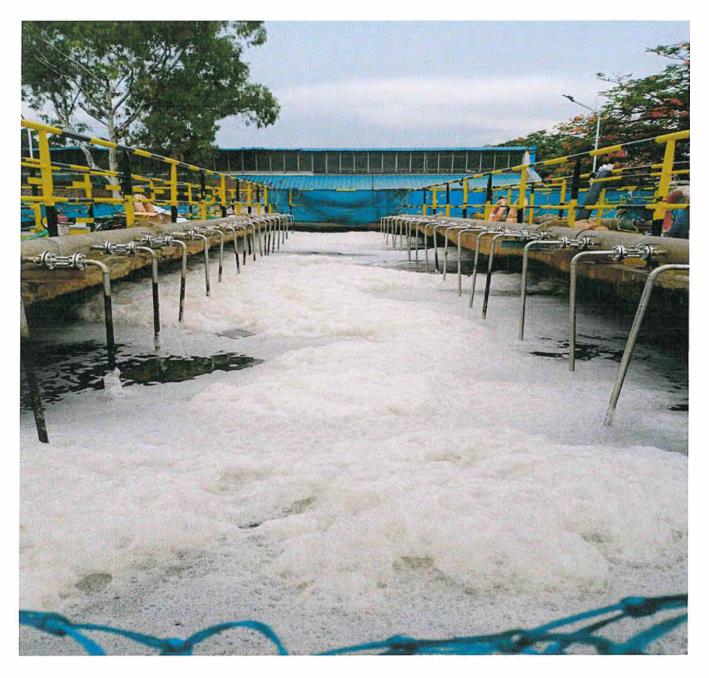
Vertical Pump installation to reduce Energy



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Solid pipe Air diffusion technology



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PEDDLE DRYER WITH SCREW FEEDER FOR ETP SLUDGE DRYING



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Sewage treatment plant construction under progress



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Green Belt



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