

ENVIRONMENTAL AUDIT STATEMENT 2020 - 2021

**CIPLA Ltd
BANGALORE**

ENVIRONMENTAL AUDIT STATEMENT REPORT

GENERAL INFORMATION

1	A) Name of the Industry	:	CIPLA LIMITED
	Address	:	Virgonagar Industrial Area, Old Madras Road, Bangalore - 560 049
	State	:	Karnataka
	Phone	:	080- 28471180
	Email	:	ciplablr@cipla.com
2	Ownership	:	Public Limited Company
3	Products Manufactured	:	Enclosed in Report
	a) Consented Capacity	:	Enclosed in Report
4	Year of establishment	:	1972
5	OPERATION DURING THE PERIOD OF AUDIT		
	a) Working days per year	:	365
	b) Working days per week	:	6 & 5 days alternatively
	c) No. of working shifts	:	G+3
6	No. of Employees	:	461
7	Current Approvals	:	Factory License: MYB 3834 Pollution Control Board consent for Water, Air, Authorization for Hazardous Waste Storage & disposal
	Water Consent	:	AW-301258 Valid up to:30.06.2021 Renewed CFO No.: AW-325339 Valid up to : 30.06.2026
	Air Consent	:	AW-301258 Valid up to:30.06.2021 Renewed CFO No.: AW-325339 Valid up to : 30.06.2026
	Hazardous waste authorization	:	PCB/WMC/2015/H. D/2015-16/H 339 Valid up to 30.06.2020 PCB/WMC/2415/HWM/2017-18/H- 824 Valid up to 30.06.2020 Authorization No.: 320741 Valid up to 30.09.2021

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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 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 468 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.

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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 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, 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:

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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 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)

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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 (ISO50001:2011), 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.

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FORM - V
(SEE RULE 14)

Environmental Statement for the financial year ending the 31st March 2021.

PART - A

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

Mr. Daniel Boppuri
Site Head
Cipla Limited
Virgonagar Post
Bangalore - 560 049
Phone: 28471180.

- 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.	LEFLUNOMIDE	KG	500.0	322.82
2.	FLUTAMIDE	KG	3000.0	155.27
3.	FELODIPINE	KG	3000.0	2933.26
4.	MITOXANTRONE HCL	KG	5.0	0.00
5.	OMEPRAZOLE	KG	30,000.0	12445.86
6.	LANZOPRAZOLE	KG	5,000.0	916.6
7.	DONEPEZIL HYDROCHLORIDE	KG	2,000.0	393.68
8.	ETOPOSIDE	KG	200.0	128.723
9.	AMLODIPINE MALEATE	KG	2,000.0	0.00
10.	AMLODIPINE BESYLATE	KG	15000.0	14830.52
11.	TOPIRAMATE	KG	20,000.0	19790.56
12.	AMLODIPINE MESYLATE	KG	10,000.0	2159.36
13.	RESPIRIDONE	KG	2,000.0	633.3
14.	ALPRAZOLAM	KG	100.0	0.00
15.	LEVOFLOXACIN HEMIHYDRATE	KG	20,000.0	959.22
16.	ANAGRELIDE HYDROCHLORIDE	KG	50.0	11.035
17.	GRANISETRON HYDROCHLORIDE	KG	20.0	19.753
18.	IRINOTECAN HYDROCHLORIDE	KG	20.0	0.00
19.	VINCISTINE	KG	10.0	0.00
20.	PANTOPRAZOLE SODIUM	KG	20,000.0	635.5

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SL.NO.	PRODUCT	UNIT	PRODUCTION CAPACITY (per annum)	PRODUCTION DURING the current financial year
21.	AZIDOTHYIMIDINE	KG	15,000.0	0.00
22.	VINBLASTINE	KG	10.0	0.00
23.	ES OMEPRAZOLE MAGNESIUM	KG	25,200.0	24862.9
24.	ANASTRAZOLE	KG	25.0	0.00
25.	PALIPERIDONE	KG	100.0	0.00
26.	DULOXETINE HCL	KG	500.0	0.00
27.	RILUZOLE	KG	500.0	0.00
28.	BICULATAMIDE	KG	1,000.0	325.96
29.	IMATINIB MESYLATE α FORM	KG	6,000.0	0.00
30.	CAPACITABINE	KG	5,000.0	0.00
31.	LETROZOLE	KG	50.0	0.00
32.	EZETIMIBE	KG	250.0	0.00
33.	CISPLATIN	KG	10.0	0.00
34.	OXALIPLATIN	KG	20.0	0.00
35.	CARBOPLATIN	KG	30.0	0.00
36.	TOPOTECAN HCL	KG	2.0	0.00
37.	VINORELBIN TARTRATE	KG	5.0	0.00
38.	LAMOTRIGENE	KG	200.0	0.00
39.	R-RABEPRAZOLE	KG	100.0	0.00
40.	RABEPRAZOLE Na	kg	2,000.0	0.00
41.	S. PANTOPRAZOLE	KG	100.0	0.00
42.	DEXLANSOPRAZOLE	KG	500.0	0.00
	Total quantity	KG	189507.0	81524.321

LIST OF TABLETS –QUANTITY IN LAKHS /YEAR

SI.No.	PRODUCTS	UNITS	PRODUCTION CAPACITY (per annum)	PRODUCTION DURING THE CURRENT FINANCIAL YEAR
1.	Anagalaride Hcl (capsules 0.5 mg)	Lakhs	250	0.00
2.	Anagalaride 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

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- iv) Date of the last environmental statement submitted: - September 2020 for the year 2019-2020.

P A R T - 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 During Financial Year (KLD)
1	Process	45	66.11
2	Washings	67	
3	Boiler	43	40.48
4	Cooling	80	
5	Domestic	45	28.9
6	Gardening	20	17.6
Total		300.0	153.1

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NAME OF THE PRODUCTS	Process water consumption / unit of product output	
	During the previous Financial year	During the current financial year

Sl. No.	PRODUCT	Process water consumption per unit of product output (Lt / Kg)	Process water consumption per unit of product output (Lt / Kg)
1.	Leflunomide	0.00	200.16
2.	Flutamide	238.31	238.31
3.	Felodipine	0.00	0.0
4.	Mitoxantrone hcl	—	—
5.	Omeprazole	76.0	76.0
6.	Lansoprazole	124.36	124.36
7.	Donepezil hydrochloride	66.92	66.92
8.	Etoposide	156.87	156.87
9.	Amlodipine maleate	—	—
10.	Amlodipine besylate	31.58	31.58
11.	Topiramate	118.11	118.11
12.	Amlodipine mesylate	128.57	128.57
13.	Risperidone	23.30	23.30
14.	Alprazolam	—	—
15.	Levofloxacin hemihydrate	16.22	16.22
16.	Anagrelide hydrochloride	138.18	138.18
17.	Granisetron hydrochloride	85.00	85.0
18.	Irinotecan hydrochloride	—	—
19.	Vincristine	0.00	—
20.	Pantoprazole sodium	0.00	54.05
21.	Azidothymidine	0.00	—
22.	Vinblastine	0.00	—
23.	ES Omeprazole Magnesium	24.09	24.09
24.	Anastrozole	—	—
25.	Paliperidone	—	—
26.	Duloxetine Hcl	—	—
27.	Riluzole	—	—
28.	Bicalutamide	—	115.75
29.	Imatinib Mesylate α form	—	—
30.	Capacitabine	33.80	—
31.	Letrozole	—	—
32.	Ezetimibe	—	—
33.	Cisplatin	—	—
34.	Oxaliplatin	—	—
35.	Carboplatin	—	—

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36.	Topotecan Hcl	—	—
37.	Vinorelibin Tartarate	—	—
38.	Lamotrigene	—	—
39.	R-Rabeprazole	—	—
40.	Rabeprazole sodium (Na)	—	—
41.	S-Pantoprazole	—	—
42.	Dexlansoprazole	—	—

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Raw material consumption

Name of the raw material	Name of the product	Consumption of raw material per unit output *	
		Previous year	Current year
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
MITOXANTRONE STAGE I	MITOXANTRONE HCL	-	—
T H F	MITOXANTRONE HCL	-	—
2-AMINO ETHYL AMINO ETHANOL	MITOXANTRONE HCL	-	—
2-METHOXY ETHANOL	MITOXANTRONE HCL	-	—
TOLUENE	MITOXANTRONE HCL	-	—
ACETONE	MITOXANTRONE HCL	-	—
HYDROCHLORIC ACID	MITOXANTRONE HCL	-	—
ABSOLUTE ALCOHOL	MITOXANTRONE HCL	-	—
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
O1 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

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AMMONIA	OMEPRAZOLE	3.67	3.67
I P A	LANSOPRAZOLE	14.02	14.02
LA7	LANSOPRAZOLE	1.52	1.52
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 MALEATE	-	-
MALEIC ACID	AMLODIPINE MALEATE	-	-
ISOPROPYL ALCOHOL	AMLODIPINE MALEATE	-	-
HYFLO	AMLODIPINE MALEATE	-	-
METHANOL	AMLODIPINE MALEATE	-	-
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 ANHYDROUS	RISPERIDONE	0.25	0.25
ALUMINA	RISPERIDONE	0.20	0.20

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HYFLO	RISPERIDONE	0.25	0.25
POTASSIUM CARBONATE POWDER	RISPERIDONE	1.00	1.00
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 T C	ALPRAZOLAM	-	-
N-BUTANOL	ALPRAZOLAM	-	-
A C H	ALPRAZOLAM	-	-
ETHYL ACETATE	ALPRAZOLAM	-	-
SODIUM SULPHATE ANHYDROUS	ALPRAZOLAM	-	-
M D C	ALPRAZOLAM	-	-
ALUMINA	ALPRAZOLAM	-	-
ACTIVATED CHARCOAL	ALPRAZOLAM	-	-
HYFLO	ALPRAZOLAM	-	-
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	2.95
ACTIVATED CHARCOAL	ANAGRELIDE HYDROCHLORIDE	0.45	0.45
TRIETHYLAMINE	ANAGRELIDE HYDROCHLORIDE	1.64	1.64
HYFLO	ANAGRELIDE HYDROCHLORIDE	2.05	2.05
ISOPROPYL ALCOHOL	ANAGRELIDE HYDROCHLORIDE	36.37	36.37
METHANOL	ANAGRELIDE HYDROCHLORIDE	154.54	154.54
HYDROCHLORIC ACID	ANAGRELIDE HYDROCHLORIDE	3.91	3.91
GNA-4	GRANISETRON HCL	1.05	1.05
THIONYL CHLORIDE	GRANISETRON HCL	2.21	2.21
D M F	GRANISETRON HCL	4.20	4.20
E D C	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
IRT BASE	IRINOTECAN HCL	-	-
ABSOLUTE ALCOHOL	IRINOTECAN HCL	-	-
ACETONE	IRINOTECAN HCL	-	-
HYDROCHLORIC ACID	IRINOTECAN HCL	-	-
VINCISTINE SULPHATE STAGE-I	VINCISTINE SULPHATE	-	-
SODIUM SULPHATE ANHYDROUS	VINCISTINE SULPHATE	-	-
SULPHURIC ACID	VINCISTINE SULPHATE	-	-
LIQUOR AMMONIA	VINCISTINE SULPHATE	-	-
CHLOROFORM	VINCISTINE SULPHATE	-	-
METHANOL	VINCISTINE SULPHATE	-	-
ABSOLUTE ALCOHOL	VINCISTINE SULPHATE	-	-
PA7 COMPOUND	PANTOPRAZOLE SODIUM	1.82	1.82
HYDROGEN PEROXIDE	PANTOPRAZOLE SODIUM	0.72	0.72

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SODIUM THIOSULPHATE	PANTOPRAZOLE SODIUM	0.24	0.24
ISOPROPYL ALCOHOL	PANTOPRAZOLE SODIUM	4.22	4.22
ACETIC ACID	PANTOPRAZOLE SODIUM	4.21	4.21
SODIUM HYDROXIDE FLAKES	PANTOPRAZOLE SODIUM	3.64	3.64
NITROGEN GAS	PANTOPRAZOLE SODIUM	1.02	1.02
HYFLO	PANTOPRAZOLE SODIUM	0.55	0.55
ACTIVATED CHARCOAL	PANTOPRAZOLE SODIUM	0.16	0.16
METHANOL	PANTOPRAZOLE SODIUM	1.81	1.81
ISOPROPYL ACETATE	PANTOPRAZOLE SODIUM	9.09	9.09
DI ISOPROPYL ETHER	PANTOPRAZOLE SODIUM	18.16	18.16
ACETONE	PANTOPRAZOLE SODIUM	2.40	2.40
SODIUM NITRITE	AZIDOTHYIMIDINE	1.67	—
SULPHURIC ACID	AZIDOTHYIMIDINE	1.00	—
D M S O	AZIDOTHYIMIDINE	10.00	—
T A C	AZIDOTHYIMIDINE	3.33	—
SODIUM AZIDE	AZIDOTHYIMIDINE	1.17	—
SODIUM CHLORIDE	AZIDOTHYIMIDINE	1.00	—
ACTIVATED CHARCOAL	AZIDOTHYIMIDINE	0.50	—
HYFLO	AZIDOTHYIMIDINE	3.33	—
SODIUM HYDROXIDE FLAKES	AZIDOTHYIMIDINE	0.10	—
TOLUENE	AZIDOTHYIMIDINE	3.33	—
METHANOL	AZIDOTHYIMIDINE	20.83	—
ETHYL ACETATE	AZIDOTHYIMIDINE	50.00	—
VINBLASTINE SULPHATE STAGE-I	VINBLASTINE SULPHATE	—	—
SODIUM SULPHATE ANHYDROUS	VINBLASTINE SULPHATE	—	—
SULPHURIC ACID	VINBLASTINE SULPHATE	—	—
LIQUOR AMMONIA	VINBLASTINE SULPHATE	—	—
METHANOL	VINBLASTINE SULPHATE	—	—
CHLOROFORM	VINBLASTINE SULPHATE	—	—
ABSOLUTE ALCOHOL	VINBLASTINE SULPHATE	—	—
O1 COMPOUND	ES OMEPRAZOLE MEGNESIUM	2.89	2.89
METHANOL	ES OMEPRAZOLE MEGNESIUM	3.14	3.14
ACETONE	ES OMEPRAZOLE MEGNESIUM	1.71	1.71
ETHYL ACETATE	ES OMEPRAZOLE MEGNESIUM	0.53	0.53
MEGNESIUM CHLORIDE HEXAHYDRATE	ES OMEPRAZOLE MEGNESIUM	0.38	0.38
HYPLO SUPER CEL	ES OMEPRAZOLE MEGNESIUM	0.27	0.27
TOLUENE	ES OMEPRAZOLE MEGNESIUM	3.96	3.96
DIETHYL TARTARATE	ES OMEPRAZOLE MEGNESIUM	0.55	0.55
SODIUM SULPHATE ANHYDROUS	ES OMEPRAZOLE MEGNESIUM	0.58	0.58
CUMMENE HYDROPEROXIDE	ES OMEPRAZOLE MEGNESIUM	3.36	3.36
POTASIUM HYDROXIDE FLAKES	ES OMEPRAZOLE MEGNESIUM	1.70	1.70
SODIUM BICARBONATE	ES OMEPRAZOLE MEGNESIUM	0.06	0.06
DICHLOROMETHANE	ES OMEPRAZOLE MEGNESIUM	13.11	13.11
ACITIC ACID	ES OMEPRAZOLE MEGNESIUM	0.46	0.46
N2 GAS	ES OMEPRAZOLE MEGNESIUM	0.28	0.28
ANZ - 2	ANASTRAZOLE	—	—
TOLUENE	ANASTRAZOLE	—	—
POTASIUM CARBONATE	ANASTRAZOLE	—	—
TRIAZOLE	ANASTRAZOLE	—	—

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POTASIUM HYDROXIDE FLAKES	ANASTRAZOLE	—	—
TETRABUTYL AMMONIUM BROMIDE	ANASTRAZOLE	—	—
SODIUM SULPHATE ANHYDROUS	ANASTRAZOLE	—	—
ISOPROPYL ALCOHOL	ANASTRAZOLE	—	—
N-HEPTANE	ANASTRAZOLE	—	—
ETHYL ACETATE	ANASTRAZOLE	—	—
DICHLOROMETHANE	ANASTRAZOLE	—	—
SILICA GEL	ANASTRAZOLE	—	—
METHANOL	ANASTRAZOLE	—	—
HYPLO SUPER CEL	ANASTRAZOLE	—	—
DI-ISOPROPYL ETHER	ANASTRAZOLE	—	—
N2 GAS	ANASTRAZOLE	—	—
ACETONITRILE	ANASTRAZOLE	—	—
BENZOYL PEROXIDE	ANASTRAZOLE	—	—
ACETIC ACID	ANASTRAZOLE	—	—
N-BROMOSUCCINAMIDE	ANASTRAZOLE	—	—
SODIUM SULFITE	ANASTRAZOLE	—	—
SODIUM BICARBONATE	ANASTRAZOLE	—	—
SODIUM CHLORIDE	ANASTRAZOLE	—	—
PPD-2	PALIPERIDONE	—	—
PALLADIUM CARBON	PALIPERIDONE	—	—
ETHYL ACETATE	PALIPERIDONE	—	—
RS-06	PALIPERIDONE	—	—
POTASSIUM CARBONATE	PALIPERIDONE	—	—
POTASSIUM IODIDE	PALIPERIDONE	—	—
SODIUM BOROHYDRIDE	PALIPERIDONE	—	—
ACETONITRILE	PALIPERIDONE	—	—
METHELENE DICHLORIDE	PALIPERIDONE	—	—
METHANOL	PALIPERIDONE	—	—
ACETON	PALIPERIDONE	—	—
H2 GAS	PALIPERIDONE	—	—
N2 GAS	PALIPERIDONE	—	—
ILX-3	DULOXETINE HCL	-	-
SODIUM HYDROXIDE FLAKES	DULOXETINE HCL	-	-
LIQ AMMONIA	DULOXETINE HCL	-	-
DICHLOROMETHANE	DULOXETINE HCL	-	-
ACTIVATED CHARCOAL	DULOXETINE HCL	-	-
ACETONE	DULOXETINE HCL	-	-
IPA HCL	DULOXETINE HCL	-	-
N2 GAS	DULOXETINE HCL	-	-
TOLUENE	DULOXETINE HCL	-	-
N-N-DI-ISOPROPYL ETHYL AMINE	DULOXETINE HCL	-	-
PHENYL CHLOROFORMATE	DULOXETINE HCL	-	-
SODIUM BICARBONATE	DULOXETINE HCL	-	-
HYDROCHLORIC ACID DIL	DULOXETINE HCL	-	-
ETHYL ACETATE	DULOXETINE HCL	-	-
SODIUM SULFATE ANHYDROUS	DULOXETINE HCL	-	-
METHANOL	DULOXETINE HCL	-	-
DI-P-TOLYL L-TARTARIC ACID	DULOXETINE HCL	-	-

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DIMETHYL SULFOXIDE	DULOXETINE HCL	-	-
4-TRI-FLUORO-METHOXY ANILINE	RILUZOLE	-	-
POTASSIUM THIOCYANATE	RILUZOLE	-	-
LIQ BROMINE	RILUZOLE	-	-
ACETIC ACID	RILUZOLE	-	-
HYPLO SUPER CEL	RILUZOLE	-	-
TOLUENE	RILUZOLE	-	-
ACTIVATED CHARCOAL	RILUZOLE	-	-
LIQ AMMONIA	RILUZOLE	-	-
HYDROCHLORIC ACID	RILUZOLE	-	-
METHANOL	RILUZOLE	-	-
N2 GAS	RILUZOLE	-	-
BLT-2	BICALUTAMIDE	-	1.32
ACETIC ACID	BICALUTAMIDE	-	7.5
HYDROGEN PEROXIDE -50%	BICALUTAMIDE	-	1.88
SULPHURIC ACID CONC	BICALUTAMIDE	-	0.09
DICHLOROMETHANE	BICALUTAMIDE	-	5.80
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 BUTOXIDE	BICALUTAMIDE	-	0.72
4-FLURO-THIOPHENOL	BICALUTAMIDE	-	0.93
SODIUM SULPHATE ANAHYDROUS	BICALUTAMIDE	-	0.40
TETRA HYDRO FURAN	BICALUTAMIDE	-	1.47
ETHYL ACETATE	BICALUTAMIDE	-	0.40
IMT-2	IMMATINIB MESYLATE ALFA FORM	-	-
IME-5	IMMATINIB MESYLATE ALFA FORM	-	-
DICHLOROMETHANE	IMMATINIB MESYLATE ALFA FORM	-	-
TRIETHYLAMINE	IMMATINIB MESYLATE ALFA FORM	-	-
LIQ AMMONIA	IMMATINIB MESYLATE ALFA FORM	-	-
ISOPROPYL ALCOHOL	IMMATINIB MESYLATE ALFA FORM	-	-
N2 GAS	IMMATINIB MESYLATE ALFA FORM	-	-
METHANE SULPHONIC ACID	IMMATINIB MESYLATE ALFA FORM	-	-
HYDROCHLORIC ACID	IMMATINIB MESYLATE ALFA FORM	-	-
CPT-1	CAPECITABINE	1.30	-
DICHLOROMETHANE	CAPECITABINE	6.89	-
PYRIDINE	CAPECITABINE	1.31	-
N-PENTYLCHLORO FORMATE	CAPECITABINE	1.19	-
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	-
4-BROMO METHYL BENZONITRILE	LETROZOLE	-	-
POTASSIUM TERTIARY BUTOXIDE	LETROZOLE	-	-

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DIMETHYLFORMAMIDE	LETROZOLE	-	-
4-FLUROBENZONITRILE	LETROZOLE	-	-
HYDROCHLORIC ACID	LETROZOLE	-	-
METHANOL	LETROZOLE	-	-
ACTIVATED CHARCOAL	LETROZOLE	-	-
N2 GAS	LETROZOLE	-	-
ACETONE	LETROZOLE	-	-
1,2,4TRIAZOLE	LETROZOLE	-	-
CESMIUM CARBONATE	LETROZOLE	-	-
POTASSIUM IODIDE	LETROZOLE	-	-
DICHLOROMETHANE	LETROZOLE	-	-
SODIUM CHLORIDE	LETROZOLE	-	-
SODIUM SULFATE ANHYDROUS	LETROZOLE	-	-
DI-ISOPROPYL ETHER	LETROZOLE	-	-
N-HEPTANE	LETROZOLE	-	-
EZM-02	EZETIMIBE	-	-
p-FLURO ANILINE	EZETIMIBE	-	-
p-HYDROXYL BENZALDEHYDE	EZETIMIBE	-	-
BORON DIMETHYL SULFIDE	EZETIMIBE	-	-
R-METHYL OXABORLIDANE	EZETIMIBE	-	-
HYDROGEN PEROXIDE-50 %	EZETIMIBE	-	-
SULFURIC ACID CONC	EZETIMIBE	-	-
SODIUM SULFITE	EZETIMIBE	-	-
SODIUM CHLORIDE	EZETIMIBE	-	-
POTASSIUM HYDROXIDE FLAKES	EZETIMIBE	-	-
DI ISOPROPYL ETHYL AMINE	EZETIMIBE	-	-
TRIMETHYL SILYL CHLORIDE	EZETIMIBE	-	-
ACETIC ACID	EZETIMIBE	-	-
TARTARIC ACID	EZETIMIBE	-	-
SODIUM BISULFATE	EZETIMIBE	-	-
TRIMETHYL SILYL ACETAMIDE	EZETIMIBE	-	-
TETRA BUTYL AMMONIUM FLUORIDE.3H	EZETIMIBE	-	-
ACTIVATED CHARCOAL	EZETIMIBE	-	-
METHANOL	EZETIMIBE	-	-
DICHLOROMETHANE	EZETIMIBE	-	-
SODIUM SULFATE ANHYDROUS	EZETIMIBE	-	-
TOLUENE	EZETIMIBE	-	-
N2 GAS	EZETIMIBE	-	-
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	-
DIETHYL ETHER	CISPLATIN	2.24	-
DIMETHYL FORMAMIDE	CISPLATIN	4.16	-
HYDROCHLORIC ACID	CISPLATIN	77.61	-
N2 GAS	CISPLATIN	1.20	-
POTTASIMUM IODIDE	CISPLATIN	4.77	-
LIQ AMMONIA	CISPLATIN	0.80	-

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POTASSIUM TETRACHLOROPLATINATE	OXALIPLATIN	-	-
1,2 DIAMINOCYCLOHEXANE	OXALIPLATIN	-	-
SILNER NITRATE	OXALIPLATIN	-	-
HYFLO SUPER CEL	OXALIPLATIN	-	-
ACTIVATED CHARCOAL	OXALIPLATIN	-	-
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	-
IRT-I	TOPOTECAN HCL	-	-
FORMALDEHYDE SOL	TOPOTECAN HCL	-	-
DIMETHYL AMINE	TOPOTECAN HCL	-	-
ACITIC ACID	TOPOTECAN HCL	-	-
HYPLO SUPER CEL	TOPOTECAN HCL	-	-
ISOPROPYL ALCOHOL	TOPOTECAN HCL	-	-
METHANOL	TOPOTECAN HCL	-	-
HYDROCHLORIC ACID AR GRADE	TOPOTECAN HCL	-	-
ETHYL ACETATE	TOPOTECAN HCL	-	-
N2 GAS	TOPOTECAN HCL	-	-
VINDILINE	VINORELBINE TARTARATE	-	-
CATHARANTHINE	VINORELBINE TARTARATE	-	-
GLYCINE	VINORELBINE TARTARATE	-	-
SODIUM CHLORIDE	VINORELBINE TARTARATE	-	-
FERRIC CHLORIDE	VINORELBINE TARTARATE	-	-
HYDROCHLORIC ACID	VINORELBINE TARTARATE	-	-
SODIUM BICARBONATE	VINORELBINE TARTARATE	-	-
LIQ AMMONIA	VINORELBINE TARTARATE	-	-
DI CHLOROMETHANE	VINORELBINE TARTARATE	-	-
SODIUM SULFATE ANHYDROUS	VINORELBINE TARTARATE	-	-
METHANOL	VINORELBINE TARTARATE	-	-
TRI-FLURO ACETIC ACID	VINORELBINE TARTARATE	-	-
n-BROMO-SUCCINAMIDE	VINORELBINE TARTARATE	-	-
TETRAHYDROFURON	VINORELBINE TARTARATE	-	-
SILVER TETRAFLUOBOARTE	VINORELBINE TARTARATE	-	-
ALUMINIUM OXIDE	VINORELBINE TARTARATE	-	-
CHLOROFORM	VINORELBINE TARTARATE	-	-
ACETONE	VINORELBINE TARTARATE	-	-
ETHANOL	VINORELBINE TARTARATE	-	-
DIETHYL ETHER	VINORELBINE TARTARATE	-	-
TARTARIC ACID	VINORELBINE TARTARATE	-	-
N2 GAS	VINORELBINE TARTARATE	-	-
SILICA JEL	VINORELBINE TARTARATE	-	-

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SODIUM BOROHYDRIDE	VINORELBINE TARTARATE	-	-
2,3 DICHLOROBENZOYL CYANIDE	LAMOTRIGINE	-	-
SULFURIC ACID CONC	LAMOTRIGINE	-	-
AMINOGUANIDINE BICARBONATE	LAMOTRIGINE	-	-
ACETONITRILE	LAMOTRIGINE	-	-
SODIUM HYDROXIDE FLAKES	LAMOTRIGINE	-	-
POTASSIUM HYDROXIDE FLAKES	LAMOTRIGINE	-	-
METHANOL	LAMOTRIGINE	-	-
ACTIVATED CHARCOAL	LAMOTRIGINE	-	-
HYFLO SUPER CEL	LAMOTRIGINE	-	-
N2 GAS	LAMOTRIGINE	-	-
RB 7	R-RABEPRAZOLE	-	-
(+)-DIETHYL TARTARATE	R-RABEPRAZOLE	-	-
CUMENE HYDRO PEROXIDE	R-RABEPRAZOLE	-	-
DIPEA	R-RABEPRAZOLE	-	-
TOLUENE	R-RABEPRAZOLE	-	-
SODIUM THIOSULPHATE	R-RABEPRAZOLE	-	-
NaOH	R-RABEPRAZOLE	-	-
AMMONIUM ACETATE	R-RABEPRAZOLE	-	-
SODIUM SULPHATE	R-RABEPRAZOLE	-	-
KOH	R-RABEPRAZOLE	-	-
METHANOL	R-RABEPRAZOLE	-	-
MEGNESIUM CHLORIDE.6H2O	R-RABEPRAZOLE	-	-
DIISOPROPYL ETHER	R-RABEPRAZOLE	-	-
RB-5	RABEPRAZOLE SODIUM	—	—
ETHYL ACETATE	RABEPRAZOLE SODIUM	—	—
SODIUM HYDROXIDE FLAKES	RABEPRAZOLE SODIUM	—	—
SODIM THIO SULPHATE	RABEPRAZOLE SODIUM	—	—
ACTIVATED CHARCOAL	RABEPRAZOLE SODIUM	—	—
HYFLO SUPER CEL	RABEPRAZOLE SODIUM	—	—
AMMONIUM ACETATE	RABEPRAZOLE SODIUM	—	—
SODIUM SULFATE ANHYDROUS	RABEPRAZOLE SODIUM	—	—
SODIUM HYDRO SULPHITE	RABEPRAZOLE SODIUM	—	—
SODIUM HYPOCHLORITE	RABEPRAZOLE SODIUM	—	—
ACETONE	RABEPRAZOLE SODIUM	—	—
METHANOLIC AMMONIA	RABEPRAZOLE SODIUM	—	—
ISOPROPYL ACETATE	RABEPRAZOLE SODIUM	—	—
METHANOL	RABEPRAZOLE SODIUM	—	—
n-HEPTANE	RABEPRAZOLE SODIUM	—	—
TRIETHYLAMINE	RABEPRAZOLE SODIUM	—	—
PYRIDINE	RABEPRAZOLE SODIUM	—	—
DICHLOROMETHANE	RABEPRAZOLE SODIUM	—	—
N2 GAS	RABEPRAZOLE SODIUM	—	—
THIONYL CHLORIDE	RABEPRAZOLE SODIUM	—	—
2-BENZIMDAZOLE	RABEPRAZOLE SODIUM	—	—
PA-7	S - PANTOPRAZOLE	-	-
(-) - DIETHYL TARTARATE	S - PANTOPRAZOLE	-	-
CUMENE HYDROPEROXIDE	S - PANTOPRAZOLE	-	-
DIPEA	S - PANTOPRAZOLE	-	-

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TOLUENE	S - PANTOPRAZOLE	-	-
DICHLOROMETHANE	S - PANTOPRAZOLE	-	-
ACETONE	S - PANTOPRAZOLE	-	-
ISOPROPYL ALCOHOL	S - PANTOPRAZOLE	-	-
SODIUM THIOSULPHATE	S - PANTOPRAZOLE	-	-
SODIUM HYDROXIDE FLAKES	S - PANTOPRAZOLE	-	-
ACITIC ACID	S - PANTOPRAZOLE	-	-
N2 GAS	S - PANTOPRAZOLE	-	-
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	-

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

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
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WATER POLLUTION:

pH	—	7.45	Within the limit
COD	3.58 kg/day	29.55 mg/l	Within the limit
TDS	36.01 kg/day	297.28 mg/l	Within the limit
BOD	1.03 kg/day	8.54 mg/l	Within the limit

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

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AIR POLLUTION:

AMBIENT AIR Quality

SPM _{PM 10}	:	60.6 µg/m ³	within the limit
SPM _{PM 2.5}	:	28.4 µg/m ³	within the limit
SO ₂	:	8.7 µg/m ³	within the limit
NO _x	:	13.7 µg/m ³	within the limit
Lead (Pb)	:	BDL µg/m ³	within the limit
Carbon Monoxide (CO)	:	0.6 mg/m ³	within the limit
Ammonia	:	23.6 µg/m ³	within the limit
Benzene	:	BDL µg/m ³	within the limit
Benzo (a) pyrene, (BaP)	:	BDL ng/m ³	within the limit
Arsenic, (AS)	:	BDL ng/m ³	within the limit
Nickel, (Ni)	:	BDL ng/m ³	within the limit
Ozone, (O ₃)	:	13.4 µg/m ³	within the limit

* 24 Hours average

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STACKS:

E2-SCR-27	Average Results	Limits
SPM	13.1mg/Nm3	150 MAX
Acid mist	2.8mg/m3	50 Max
E2-SCR-29	-	-
SPM	15.2mg/Nm3	150 MAX
Acid mist	2.8mg/m3	50 Max
E2-SCR-30/B	-	-
SPM	13.3mg/Nm3	150 MAX
Acid mist	2.6mg/m3	50 Max
E2-SCR-31/B	-	-
SPM	15.3mg/Nm3	150 MAX
Acid mist	2.9mg/m3	50 Max
E2-SCR-32/B	-	-
SPM	12.7mg/Nm3	150 MAX
Acid mist	2.6mg/m3	50 Max
E6-SCR-69	-	-
SPM	13.1mg/Nm3	150 MAX
Acid mist	2.8mg/m3	50 Max
E6-SCR-70	-	-
SPM	14.5mg/Nm3	150 MAX
Acid mist	2.9mg/m3	50 Max
E3-SCR-38	-	-
SPM	13.9mg/Nm3	150 MAX
Acid mist	2.8mg/m3	50 Max
E3-SCR-39	-	-
SPM	14.6mg/Nm3	150 MAX
Acid mist	2.7mg/m3	50 Max
SY-1-SCR-31	-	-
SPM	14.0mg/Nm3	150 MAX
Acid mist	3.1mg/m3	50 Max
SYN-7-SCR-116	Average Results	Limits
SPM	15.1mg/Nm3	150 MAX
Acid mist	3.0mg/m3	50 Max

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RD-SCR-E59	Average Results	Limits
SPM	16.4mg/Nm ³	150 MAX
Acid mist	3.1mg/m ³	50 Max
RD-SCR-060	-	-
SPM	16.8mg/Nm ³	150 MAX
Acid mist	3.2mg/m ³	50 Max
L-III-SCR-42	-	-
SPM	13.5mg/Nm ³	150 MAX
Acid mist	2.7mg/m ³	50 Max
L-II-SCR-55	-	-
SPM	15.7mg/Nm ³	150 MAX
Acid mist	2.8mg/m ³	50 Max
E4-SCR-182	-	-
SPM	15.5mg/Nm ³	150 MAX
Acid mist	3.0mg/m ³	50 Max
E4-SCR-183	-	-
SPM	12.4mg/Nm ³	150 MAX
Acid mist	2.5mg/m ³	50 Max
E4-SCR-184	-	-
SPM	15.6mg/Nm ³	150 MAX
Acid mist	3.0mg/m ³	50 Max
E4-SCR-185	-	-
SPM	15.5mg/Nm ³	150 MAX
Acid mist	2.8mg/m ³	50 Max
QC-SCR-01	-	-
SPM	12.2mg/Nm ³	150 MAX
Acid mist	2.6mg/m ³	50 Max
DG 1250 KVA	-	-
SPM	49.87 mg/Nm ³	75 Max
SO ₂	15.08 ppm	-
Nox	40.05 ppm	700 Max
NMHC	19.97 ppm	100 Max
CO	108.33 ppm	150 Max
DG 1500(1)KVA	-	-
SPM	53.86 mg/Nm ³	75 Max
SO ₂	17.89 ppm	-

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Nox	45.42 ppm	700 Max
NMHC	23.05 ppm	100 Max
CO	105.83 ppm	150 Max
DG 1500(2)KVA	-	-
SPM	51.05 mg/Nm ³	75 Max
SO ₂	18.44 ppm	-
Nox	38.98 ppm	700 Max
NMHC	24.63 ppm	100 Max
CO	103.33 ppm	150 Max
DG 1500 (3)KVA	-	-
SPM	51.19 mg/Nm ³	75 Max
SO ₂	18.52 ppm	-
Nox	46.19 ppm	700 Max
NMHC	23.78 ppm	100 Max
CO	105.83 ppm	150 Max
3 TPH Boiler	-	-
SPM	47.08 mg/Nm ³	150 Max
SO ₂	11.22 ppm	-
Nox	22 ppm	-
Acid Mist	0 mg/Nm ³	50 Max
2 & 3 TPH Boiler combined chimney	-	-
SPM	45.52 mg/Nm ³	150 Max
SO ₂	11.34 ppm	-
Nox	23.58 ppm	-
Acid Mist	0 mg/Nm ³	50 Max

ENVIRONMENTAL AUDIT STATEMENT REPORT

PART - D

HAZARDOUS AND OTHER WASTE DETAILS

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

SL.NO	Hazardous waste	Total quantity (Kg)			
		During the previous financial year		During the current financial year	
		Generation	Disposal	Generation	Disposal
A	From process				
1	Distillation residues	5129	5229	4130	4130
2	process residue and wastes	50917	50267	52240	51947
3	Date -Expired products	1077	1077	2625	2625
4	Off specification products	741	1029	3198	3198
5	Spent organic solvents generated from antimicrobial products(lts)	9472	9472	15960	15960

PART-E

SOLID WASTES

SL. NO	Solid Waste	Total quantity (Kg)			
		During the previous financial year		During the current financial year	
		Generation	Disposal	Generation	Disposal
A	From process				
1	Spent carbon	20588	20640	17250	17320
	spent catalyst	0	0	582	582
B	Effluent Treatment plant process residues				
1	ATFD powder	162440	153760	136150	138345
2	ETP Sludge	215600	209795	178350	177145
3	Chemical sludge from wastewater treatment	0	0	0	0

ENVIRONMENTAL AUDIT STATEMENT REPORT

C	Quantity recycled or reutilized with in the unit				
1	Spent Used oil (Ltrs)	15950	15650	8300	7000
2	Spent Solvents (Ltrs)	2310912	2310912	2313442	2313442
D	Other Waste				
1	Empty barrels/ containers/liners/contaminated with hazardous chemicals/wastes.	14538	14138	14755	14855
2	E-Waste (Kgs)	111	111	32	32
3	Contaminated cotton rags or other cleaning	4590	4590	4755	4585
4	Sludge from wet scrubber	0	0	0	0

**** Spent solvent disposed to recyclers**

Other waste generation and disposal details

SOLID WASTE

SOLID WASTE					
SL.NO	Solid Waste	Total quantity (Kg)			
		During the previous financial year		During the current financial year	
		Generation	Disposal	Generation	Disposal
From process and Maintenance activity					
1	Glass waste in non-dispersible form	7880	7180	8984	9684
2	Ceramic waste in non-dispersible form	0	0	0	0
3	Waste electrical & electronic assemblies	0	0	1658	1658
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	214860	214860	140042	140042
8	Paper, Paperboard, & Paper Product wastes	18290	17540	32158	32908
9	Untreated cork & wood waste	16799	16579	12266	12486

ENVIRONMENTAL AUDIT STATEMENT REPORT

E-WASTE DISPOSAL (From April 2020 to March-2021)				
S.NO	E-Waste item	UOM	Quantity Generated	Quantity Disposed
1	Mixed Lot in KG	KG	32	32
2	CPU Dual c & above	EA	10	10
3	Keyboard	EA	16	16
4	Laptop p-III & P-IV	EA	1	1
5	LCD Monitor	EA	9	9
6	Printer	EA	4	4
7	Projector	EA	4	4
8	Lead acid battery	KG	26	26

Biomedical waste disposal details (From January 2020 to December 2020)

S.No	Category	UOM	Quantity generated	Quantity Disposed
1	Yellow	kg	320.58	320.58
2	Red	kg	3.55	3.55
3	White	kg	0.2	0.2
4	Blue	kg	0	0

ENVIRONMENTAL AUDIT STATEMENT REPORT

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.

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
2.	Process residue and 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.	Used spent oil	5.1	Liquid & reusable	Disposed to KSPCB authorized re-processors.
7.	Spent Mother liquor, Spent Organic solvents, spent mixed solvent	28.6	Liquid, Flammable & Recyclable Liquid, Flammable & Recyclable	Sold to KPCB authorized recycler.
8.	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	33.1	Recyclable	
9.	Chemical Sludge From Waste Water 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.
10.	Contaminated cotton rags Or other cleaning	33.2	Solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator
11.	Sludge from wet scrubber	37.2	Solid & Flammable	Incinerated at KSPCB Authorized Common Incinerator

ENVIRONMENTAL AUDIT STATEMENT REPORT

Sl. No	Type of Other waste	Category of wastes	Characterization	Treatment
12.	Glass waste in non dispersible form	B1110	Solid & Non-Flammable	Sold to KPCB authorized recycler.
13.	Ceramic waste in non-dispersible form	Schedule-III, part -B	Solid & Non-Flammable	Sold to KPCB authorized recycler.
14.	Waste electrical and electronic assemblies	Schedule-III, part -B & part D	Solid & Non-Flammable	Sold to KPCB authorized recycler.
15.	Spent activated carbon	B2020	Solid & Non-Flammable	Sold to KPCB authorized recycler.
16.	Rubber waste	Schedule-III, part -B	Solid & Non-Flammable	Sold to KPCB authorized recycler.
17.	Resins, Latex, plastizers, glues & adhesives	B2030	Solid & Non-Flammable	Sold to KPCB authorized recycler.
18.	Iron and steel scrap	Schedule-III, part -B	Solid & Non-Flammable	Sold to KPCB authorized recycler.
19.	Paper, paperboard & paper Product wastes.	B2060	Solid & Non-Flammable	Sold to KPCB authorized recycler.
20.	Untreated cork & wood waste	Schedule-III, part -B B3040	Solid & Non-Flammable	Sold to KPCB authorized recycler.

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 waste water 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.

ENVIRONMENTAL AUDIT STATEMENT REPORT

P A R T - 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.	Surveillance Audit ISO:14001 & OHSAS :18001	0.6
2.	RO Membrane	14.0
3.	NF, NFRC Membrane	12.0
4.	New technology Diffusers	15.5
5.	Green belt area	0.8
6.	Online IP Camera data connection to CPCB	1.75
7.	Solvent closed handling system	40.0
8.	Measurable instrument (Flow meters)	3.4
9.	Noncorrosive Painting at ETP	8.0
10.	Maintenance and fabrication work	14
11	Closed Hazardous waste containers	15.0
12	Safety meshes to open ponds at ETP	1.2
Grand Total		

ENVIRONMENTAL AUDIT STATEMENT REPORT

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 certified by AFNOR Group, France and Recertification audit conducted in August -2017 by AFNOR group and surveillance audit conducted in August -2019.
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 3 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 3 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. New Quality control building constructed above the existing ware house department
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.
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.

ENVIRONMENTAL AUDIT STATEMENT REPORT

18. Project initiated to reduce carbon footprint PNG gas used instead of FO as a fuel in the boiler.

Highlights and Improvements:

Online continuous AAQMS Installation at site



ENVIRONMENTAL AUDIT STATEMENT REPORT

Online Continuous AAQMS station:



Site details on Digital Display Board



Vertical Pump installation to reduce Energy



Solid pipe Air diffusion technology

