

25<sup>th</sup> September 2023,  
Visakhapatnam.

To  
The Environment Engineer  
AP Pollution Control Board  
Plot No-14, Flat No-103 & 104  
Journalist Colony, Mairipalem Vuda Colony,  
Visakhapatnam-530009.

**Subject:** Submission of Environmental Statement for the period 2022-23.

Respected Sir,

With reference to the above said subject we are herewith submitting Environmental Statement in prescribed format FORM -V for the period 2022-23 ending with 31<sup>st</sup> March 2023.

Kindly acknowledge the same.

Thanking You

For Torrent Pharmaceuticals Limited

  
25/09/2023

N Rajyalakshmi  
(Manager-HSE)



**TORRENT PHARMACEUTICALS LIMITED**

CIN : L24230GJ1972PLC002126

**FORM V**

(See Rule 14)

Environmental Statement for the financial year ending the 31<sup>st</sup> March 2022**PART-A**

- (i) Name and address of owner/Occupier : Torrent Pharmaceuticals Limited, Plot No: 77, JN Pharma city, Thanam (V), Parawada (M), Anakapalli-531021  
of industry operation or process.
- (ii) Industry Category Primary STC code) : Medium Scale Industry  
Secondary \_\_\_\_ (SIC code)
- (iii) Production Capacity : 630.32 Kg/ day.
- (iv) Year of establishment : 2007 (Torrent Acquires on Sep'16)
- (v) Date of last environmental statement : 26<sup>th</sup> September 2022  
submitted

**PART-B****Water and Raw material consumption****(1) Water Consumption m<sup>3</sup>/day:**

Process	:	1.32
Cooling	:	18.95 (Cooling +Boiler feed)
Domestic	:	3.62

Sr No	Name of Product	Process water consumption per unit of product output (m <sup>3</sup> /day)	
		During the previous financial year	During the current financial year
1	API & Intermediates	1.28	1.32

Name of Product	Name of Raw Material consumption	Consumption of raw material per unit of output (Kg)	Consumption of raw material per unit of output (Kg)
		During the financial year	During the financial year
		FY 21-22	FY 22-23
Lamotrigine	23-Dichlorobenzoy Nitrile	1.09	0
Olanzapine	2amino5methylthiophene 3carbonitrile	1.38	1.32
Rivastigmine Hydrogen Tartarate	N-Ethyl-N-Methyl Carbamoyl Chloride	3.79	3.89
	31dimethyl Amine Ethyl Phenol Hcl	4.57	4.69

Name of Product	Name of Raw Material consumption	Consumption of raw material per unit of output (Kg)	Consumption of raw material per unit of output (Kg)
		During the financial year	During the financial year
		FY 21-22	FY 22-23
Esomeprazole Magnesium Stage-III (Intermediate)	2chloromethyl35dimethyl4methoxy Pyridine Hydrochloride	0.77	0.74
Rabeprazole Sodium	2chloromethoxy143methoxy Propoxy3methyl Pyridine Hydrochloride	4.1	4.31
Ropinirole Hydrochloride	4-(2-Bromoethyl)-3-Chloro-1,3-Dihydro-2h	3.99	3.87
Nicorandil	Nicotinic Acid	1.7	1.8
Topiramate	D (-) Fructose	1.91	1.28
Penciclovir	6-Chloro-9h-Purin-2-Amine	17.08	11.625
TRC4186	Msnh (N'-Methane Sulfonyl Nicotinic Hydra	0	0
	2-Cat (2-Chloro-1-Thien-2-Ylethanone)	0	0
TRC150094 API	Trc150094 Ksm-I	0.76	0
Lercanidipine Hydrochloride	2,N-Dimethyl-N-(3,3-Diphenyl	1.88	1.77
Candesartan	Methyl-2-Ethoxy-1-[[2'-(1h-Tetrazole-5-	1.89	0
Olanzapine Embonate	Pamoic Acid	0.56	0.57
Sildenafil Citrate	4-(2-Ethoxy Benzamido)-1-Methyl-3n Propyl	1.17	0
Zolpidem Tartrate	6-Methyl-2-(4-Methylphenyl)Imidazole	0.78	1.98
Pantoprazole sodium	2-(Chloromethyl)-3,4-Dimethoxy Pyridine	0.66	0.66
Esomeprazole magnesium (eu)	2-Chloromethyl-3,5-Dimethyl-4-Methoxy	0	8.00
Lercanidipine hydrochloride (crystalline)	2,N-Dimethyl-N-(3,3-Diphenylpropyl)-1-Am	0	0.58
Perampanel	5-(2-Pyridyl)-1,2-Dihydropyridin-2-One	0	14.61
Stiripentol	2h-1,3-Benzodioxole-5-Carbaldehyde	0	1.74
Prucalopride succinate	4-Amino-5-Chloro-2,3-Dihydro-1-Benzofura	0	0.58
Lamotrigine ph.eur.(brazil)	23-Dichlorobenzoy Nitrile	0	1.09

### PART-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

Sr No	Quantity of pollutants discharged (mass/day)	Concentration of Pollutants in discharge (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Attached Annexure-I (Effluent Disposal Data) Annexure-II (Waste water Reports)		
b) Air	Attached Annexure-III (Air Reports)		

### PART-D

#### Hazardous wastes

Sr No	Hazardous waste	Source of generation	Total quantity	
			Financial year (2021-22) TPA	Current financial year (2022-23) TPA
1	Process and Organic Residue	From process	0.14	0.455
2	Inorganic Solid Waste & Salts (Inorganic Process Salts)	From process	6.40	5.23
3	Spent Carbon + Hyflow (Spent Carbon)	From process	3.88	4.417
4	ETP Sludge	From pollution control facilities	2.89	0.509
5	Sodium Hydride Empty bags	From process	0	0
6	Rejected product	From process	0.70	2.823
7	Used PPE	From process	0.88	0.822
8	Rejected raw materials	From process	1.97	1.632
9	HEPA Filters	From process	0	0
10	Insulation wool	From process	1.66	1.515
11	Thermocol	From process	0.09	0.195
12	HDPE/LDPE Bags	From process	0	0
13	Expired Laboratory Chemicals	From process	0.05	0.017
14	Filtration Bags	From process	0.190	0.847
15	Contaminated sand	From Spills /leaks	0	0.01
16	General waste	From process	0	0
17	Foam	From process	0.02	0
18	Cooling tower packing material	From process	0	0

Sr No	Hazardous waste	Source of generation	Total quantity	
			Financial year (2021-22) TPA	Current financial year (2022-23) TPA
19	Used Oil	From process	0.44	0
20	Empty barrels/Container/Liners Contaminated with hazardous Chemicals waste	From process	5.11	11.34
21	Cooling tower sludge	From Process	0.94	4.234
22	Coal Ash	From Boiler	56.65	57
23	Spent Solvent	From Process	516.19	572.150

**PART-E**  
**Solid Waste**

Sr No	Solid waste	Total quantity (Kg)	
		Previous financial year	Current financial year
(a)	From process	Nil	Nil
(b)	From pollution control facility	Nil	Nil
(c)	(i) Quantity recycled or reutilized within the unit	Nil	Nil
	(ii) Sold	Nil	Nil
	(iii) Disposed	Nil	Nil

**PART-F**

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

Type of Hazardous waste	Disposal Mode	Disposal Facility
Process residue and Organic residue from Distillation bottom	Sent to TSDF, Parawada, for incineration/ Authorised Cement plants for co-processing.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Spent Carbon	Sent to TSDF, Parawada, for incineration/ Authorised Cement plants for co-processing.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Inorganic process salts	Sent to TSDF, Parawada, for secured land filling.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
ETP Sludge	Sent to TSDF, Parawada, for secured land filling.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Spent solvents	Shall be sent to APPCB authorized agency	1. S.S.V Fine chem, PlotNo.4F, DE-Notified Area, APSEZ, Atchutapuram, Rambilli (M), Anakapalli (D) 2. Sanpra Synthesis Pvt. Ltd. Division-I; Plot No-22C; De notified Area, APSEZ, Gurajapalem; Rambilli (M), Atchutapuram, Anakapalli (D)

Type of Hazardous waste	Disposal Mode	Disposal Facility
		3. GenetiQ Pro Pharmaceuticals Pvt. Ltd. Plot No-15B 11/A; APSEZ; De notified Area, APSEZ, Rambilli (M), Atchutapuram, Anakapalli (D)
Used Oils	Authorized reprocessors /recyclers	Send to Zen Lubs Plot No. 62, E- Block, Auto Nagar, Visakhapatnam - 530012
Container and container liners of hazardous waste	After complete detoxification shall be disposed to outside agencies for recycling.	Sri Sai Plastics, Autonagar, Visakhapatnam.
Used lead acid batteries	Shall be sent back to suppliers on buy back basis.	To the Manufacturer on buy back basis.
Mixed solvent	Shall be sent to APPCB authorized agency	S S.V Fine chem, PlotNo.4F, DE-Notified Area, APSEZ, Atchutapuram, Rambilli(M), Visakhapatnam (D)
Spent acids	Shall be sent to APPCB authorized agency	VS Sethia, APIIC Autonagar, Visakhapatnam-531019
Contaminated Sand (used for spill collection & control)	Sent to TSDF, Parawada, for secured land filling.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Rejected raw material	Sent to TSDF, Parawada, for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Rejected Products	Sent to TSDF, Parawada, for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
HEPA Filters	Sent to TSDF, Parawada, for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Insulation wool	Sent to TSDF, Parawada, for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Thermocol	Sent to TSDF, Parawada, for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Contaminated glassware	After complete detoxification shall be disposed to outside agencies.	Sri Sai Plastics, Autonagar, Visakhapatnam.
PPEs	Sent to TSDF, Parawada, for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Sodium Hydride bags	Sent to TSDF, Parawada, for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
HDPE Bags	Sent to TSDF, Parawada, for incineration/for recycling to authorized recyclers.	Sri Sai Plastics, Autonagar, Visakhapatnam.
Expired Laboratory chemicals	Sent to TSDF, Parawada, for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Filtration bags	Sent to TSDF, Parawada, for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Coal Ash	Disposed to local Ash Bricks manufacturers.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Cooling Tower Sludge	Sent to TSDF/CWMP, Parawada, Visakhapatnam District for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Cooling Tower Packing material	Sent to TSDF/CWMP, Parawada, Visakhapatnam District for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Foam	Sent to TSDF/CWMP, Parawada, Visakhapatnam District for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
Oil Contaminated Waste (DG Set oil filters)	Sent to TSDF/CWMP, Parawada, Visakhapatnam District for incineration.	Coastal Waste Management Project-Ramky, Parawada, Visakhapatnam
General Waste	Sent to TSDF/CWMP, Parawada, Visakhapatnam District for incineration.	Sri Sai Plastics, Autonagar, Visakhapatnam.

## ANNEXURE-I

Effluent Disposal for the year 2022 - 23			
S. No	Month of disposal	LTDS Effluent Quantity(KL)	HTDS Effluent Quantity(KL)
1	Apr-22	650	125
2	May-22	650	80
3	Jun-22	625	40
4	Jul-22	700	80
5	Aug-22	850	90
6	Sep-22	835	90
7	Oct-22	768	0
8	Nov-22	792	65
9	Dec-22	810	90
10	Jan-23	395	0
11	Feb-23	471	0
12	Mar-23	422	0

The different types of solid recyclable waste as an outcome of construction activity, like steel/ MS Scrap, Empty Cement Bags, Cable pieces, wooden waste etc. sold to scrap vendor.

#### PART-G

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

- Underground seepage water (freshwater) diverted through drainage to storm water pit and using for garden watering purpose. In line with utilization of natural resources as a water conservation plan.
- Biomass Briquettes as fuel to Boiler.
- As per CPCB guidelines, PWM being followed centrally thru the agency NEPRA.
- NaOH liquid Dosing facility created & in use, NaOH solution is being used instead of caustic flakes for effluent neutralization purpose.

#### PART-H

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

- Avenue plantation of 2 km area plantation done by Social Forestry Department near Narsipatnam from Subbarayadupalem to Pedaboddepalli.
- Installed vent condensers to underground and above ground storage tanks.

#### PART -I

Any other particulars for improving the quality of the environment.

- HSE Policy in place and displayed at strategic locations inside the plant.
- Following Standard operational procedures against environmental practices.
- Monitoring of Online Continuous Effluent Monitoring System
- Intactness of Online VOC meter
- Intactness of Online Scrubber pH data logging
- Obtained Certificate for ISO 14001:2015 on 29th Nov'19.
- Monitoring of environmental parameters viz-ambient air, stack, Noise and efficiency of control equipment is being done at regular basis through MoEF and CC recognized laboratory.

Date: 21/09/2023

(Signature of a person carrying out an industry, Operation & Process)

Name : Shyam Sunder Sunkari

Designation : GM - Operations

Address: M/s. Torrent Pharmaceuticals Limited.,

Plot No 77, JN Pharma city, Thanam (V),  
Parawada (M), Visakhapatnam District.





**ANNEXURE-III**  
**AMBIENT AIR QUALITY**

Location	Parameter	Limit	Min	Max	Avg.
Near Security	PM 2.5	60 µg/m <sup>3</sup>	26.4	29.6	28.04
	PM 10	100 µg/m <sup>3</sup>	65.1	68.5	66.79
	SO <sub>2</sub>	80 µg/m <sup>3</sup>	13.6	17.3	15.17
	NO <sub>X</sub>	80 µg/m <sup>3</sup>	16.8	21.7	18.69
Near E-Block	PM 2.5	60 µg/m <sup>3</sup>	24.8	28.1	26.40
	PM 10	100 µg/m <sup>3</sup>	61.6	66.9	64.03
	SO <sub>2</sub>	80 µg/m <sup>3</sup>	12.8	16.5	14.99
	NO <sub>X</sub>	80 µg/m <sup>3</sup>	16.2	20	18.13
Near Boiler	PM 2.5	60 µg/m <sup>3</sup>	27.1	30.2	28.63
	PM 10	100 µg/m <sup>3</sup>	64.4	69.3	67.02
	SO <sub>2</sub>	80 µg/m <sup>3</sup>	15	18.5	16.51
	NO <sub>X</sub>	80 µg/m <sup>3</sup>	18.3	21.9	19.57

**AMBIENT NOISE LEVELS**

Near Security Gate (Day time)	Noise Level	75dBA	53.6	63.1	58.5
Near D.G Room (Day time)		75dBA	61.7	67.9	64.4
Near Utility (Day time)		75dBA	63.8	69.4	67.6
Near Security Gate (Night time)		70dBA	50.7	58.6	54.6
Near D.G Room (Night time)		70dBA	57.5	62.9	60.0
Near Utility (Night time)		70dBA	60.6	65.4	63.6

### PROCESS EMISSION

Location	Parameter	Limit	Min	Max	Avg.
SCB/A01	Acid Mist	35 PPM	1.83	1.91	1.87
SCB/C01		35 PPM	18.8	19.6	19.20
SCB/D01		35 PPM	17.4	18.9	18.15
SCB/D02		35 PPM	19.9	20.3	20.10
SCB/E01		35 PPM	20.4	21.8	21.10
SCB/WH01		35 PPM	17.6	18.9	18.25
SCB/WH03		35 PPM	19.5	19.8	19.65
SCB/ETP01		35 PPM	18.3	20.1	19.20
SCB/R&D01		35 PPM	20.8	21.4	21.10

### FLUE GAS EMISSION

Location	Parameter	Limit	Min	Max	Avg.
Boiler	PM	100 mg/Nm <sup>3</sup>	65.8	73.1	71.06
	SO <sub>2</sub>	-	62.1	69.6	67.18
	NO <sub>X</sub>	-	73.1	81.2	75.83
	PM Inlet	-	-	-	-
	Efficiency of Bag Filter	%	97.10%	97.40%	97.25%
DG Set 1	PM	100 mg/Nm <sup>3</sup>	-	-	-
	SO <sub>2</sub>	-	-	-	-
	NO <sub>X</sub>	-	1.32	1.41	1.37
DG Set 2	PM	100 mg/Nm <sup>3</sup>	-	-	-
	SO <sub>2</sub>	-	-	-	-
	NO <sub>X</sub>	-	1.83	1.91	1.87