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torrent  
PHARMACEUTICALS LIMITED  
Gujarat

Date: June 11, 2024

GPCB RO, MEHSANA  
Received *S.P. Chavda*  
Date...*13/6/2024*...

The Regional Officer,  
Gujarat Pollution Control Board,  
Plot No. H/3 – A, Phase I  
GIDC, Modhera Road,  
Mahesana, (Guj)

GPCB ID 18441

**Subject : Submission of Environment statement (Form V) for the year 2023-24 under EPR.**

Ref: : CC &A No. : AWH-118989, valid up to 31/12/2027.

Dear Sir,

Pl find enclosed herewith duly filled in Form V (Environment Statement) for the financial year 2023-24 ending on 31<sup>st</sup> March 2024.

We hope that you will find above in order.

Thanking you,

For Torrent Pharmaceuticals Ltd.

Ilesh Parikh  
(GM-HSE)

**Encl:** Duly filled in Form V with annexures.

**TORRENT PHARMACEUTICALS LIMITED**

CIN : L24230GJ1972PLC002126

Ahmedabad-Mehsana Highway, Indrad, Tal. Kadi, Dist. Mehsana, India. Phone: +91 2764 233671-75,

Reg. Office : Torrent House, Off Ashram Road, Ahmedabad - 380 009, India. Phone: +91 79 26599000 www.torrentpharma.com



Form V 2023-24  
Torrent Pharma, Indrad

FORM - V  
(See Rule 14)

From :  
M/s. Torrent Pharmaceuticals LTD.  
Village : Indrad  
Ahmedabad – Mehsana Highway  
Tal : Kadi, Dist : Mehsana ( N.G )

To,  
Gujarat Pollution control Board  
Sector 10-A  
Gandhinagar – 382043

ENVIRONMENTAL STATEMENT for the financial year ending the 31<sup>st</sup> March 2024

PART – A

- |      |   |     |  |
|------|---|-----|--|
| I.   | Name and address of the owner / occupier of the industry operation or process | : - | M/s Torrent Pharmaceuticals Ltd.<br>Plot No: 788,753 to 762,764 to 768,<br>785,112,113,113P 114 126,128 to<br>130, 135,<br>Village : Indrad,<br>Ahmedabad Mehsana Highway<br>Tal.: Kadi<br>Dist : Mehsana<br>Gujarat |
| II.  | Industry Category<br>GPCB ID  | : - | Large Scale Industry<br>ID- 18441  |
| III. | Production capacity<br>Units  | : - | Pl. Refer Annexure I   |
| IV.  | Year of establishment   | : - | August 1987  |
| V.   | Date of the last<br>Environmental<br>Statement submitted                      | : - | 05/07/2023   |

**PART – B**

Water and Raw Material Consumption

(1) Water Consumption m<sup>3</sup>/day

Process: 569  
Cooling including boiler: 583  
Domestic: 257

Name of Product	Process water consumption per unit of product output	
	During the financial year 2022-23	During the financial year 2023-24
	1325 KL/Day (483667 KL/Year)	1409 KL/Day (515585KL/Year)
API	17.80 ( MTA)	10.5 ( MTA)
Capsules	29,71,00,217 (Nos in year)	247800138 (Nos in year)
Tablets	2,30,19,34,558 (Nos in year)	2598336479 (Nos in year)
Vials	3,11,14,042 (Nos in year)	33931323 (Nos in year)

Note: Avg. water consumption including process, cooling, domestic and non-biodegradable

(2) Raw Material Consumption

Name of the raw material	Name of products	Consumption of raw material per unit of output	
		During the financial year (2022-23) (Total Kg.)	During the financial year (2023-24) (Total Kg.)
Refer Annexure II A (API Plant) & Annexure II B (Formulation Plant)			

**PART – C**

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Torrent Pharma, Indrad

Pollutants discharged to environment / unit of output  
(Parameters as specified in the consent issued)

	Pollutants	Quantity of pollutants discharged (mass / day)	Concentration of pollutants in discharges (mass / volume) PPM	Percentage of variation from prescribed standards with reasons
(a)	Water COD	31.46 KG	COD-55 PPM	-45 % (below limits)
<i>Based on the COD limits vs actual result and total actual volume of effluent. Total volume discharged 572 KLD. Avg COD 55 PPM vs 100 PPM limits.</i>				
(b)	Air	Emissions are within limits		

PART – D

HAZARDOUS WASTES

	Hazardous Wastes	Total quantity (MT)	
		During the financial year (2022 –2023)	During the financial year (2023 –2024)
(a)	From Process	1164.104	1215.99
(b)	From pollution control facilities (Effluent treatment)	354.21	160.74

Refer Annexure III- for Haz. waste detail

PART – E

SOLID WASTES

		Total quantity (MT.)	
		During the financial year (2022 – 2023)	During the financial year (2023-2024)
(a)	From Process	583.42	747.8
(b)	From pollution control facilities (Effluent treatment)		
(c)	(1) Quantity recycled or re-utilized within the unit		
	(2) Sold		
	(3) Disposed		

This is non-hazardous waste.

PART – F

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

Refer Annexure IV

PART – G

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

1. Power factor maintained near Unity at various plants resulted curtailment of power losses and rebate from state electricity boards.
2. Commissioned the new boilers with bio-fuel (briquette/agro waste/ biomass) at Inrad (May'23) Total estimated annual cost saving in FY 24 is Rs. 782 Lacs
3. Installation of Hybrid power Plant , Hybrid power generation system commissioned In May'23. This serves to Indrad,, Hybrid energy generation for FY '24 is 2.08 Cr KWh.
4. Operational efficiency of electrical system at various manufacturing facilities. Improved energy efficiency. Resulting into not paying additional amount for Energy consumption

Form V 2023-24  
Torrent Pharma, Indrad

5. Heat Pump installation for the generation of hot water
6. Installation of Hybrid power Plant, There is estimated reduction of 9768 Mt CO<sub>2</sub>e
7. Replacement of CFL/PL/conventional lamps by LED at various plants. Installed energy efficient equipments (i.e. LED light, occupancy sensor for AC, Ceiling Fan, etc)
8. Use of Solar energy 1 MW at Indrad plant.
9. Use of Natural Gas / Biogas in place of LPG for canteen use.
10. Major part of hazardous waste sent for disposal to cement plants for co-processing.
11. Minimized the Incinerable waste and divert it to Co-processing & Recycling.
12. GPCB has granted the authorization for hazardous waste for co-process with different Cement Plant.
13. We do disposal of ETP Sludge to Cement Plant for Co Processing instead of Landfill.
14. Recycling as a mode of disposal for following waste stream
  - a. Copper waste.
  - b. Recovered solvent
  - c. Spent Catalyst
  - d. Used Oil
  - e. Empty Drum
  - f. Liner bag
  - g. Contaminated Cotton rags and Misc. waste
15. We have provided Air pollution control system to achieve specified norms. Industry has installed scrubber in API area.
16. Recovery of steam condensate from MEE and ATFD plant for direct reuse of hot water as boiler feed.
17. Use fly Ash based bricks and use of fly ash in RCC for construction.

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Torrent Pharma, Indrad

18. We have installed 26 nos. of rain water harvesting structures and covered large catchment area to increase the level of underground water & prevent flooding during heavy rain.
19. Installation of 10 TPH Briquette Fired Boiler to use green fuel and reduce usage of fossil fuel for environment conservation.
20. Installed RO plants for maximum recovery from effluent.
21. We have started to use eco friendly refrigerant R410A for air conditioners.
22. Action initiated for water conservation as follows :
  - Installed water less urinals in change room
  - Only surface water is used for operation. We have stopped use of bore well water.
  - Reuse of steam condensate in boiler.
  - Recycling of process RO reject further in additional RO.

PART – H

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

1. Online TOC meter, pH meter, TSS, NH<sub>3</sub>- N has been installed with Camera system at final discharge and connectivity with GPCB and CPCB site. The results are within the limit prescribed by GPCB.
2. Efficiency improvement in ZLD (Zero Liquid Discharge), system at Indrad , Effluent load reduction and energy saving in ZLD system.
  - 1) Reuse of MEE and ATFD process condensate.
  - 2) change in method of treatment of softener regeneration and reuse of it.
  - 3) Change in method of treatment of selected domestic effluent streams. Formulation ETP.
3. Installed the sludge Dryer that will be reduction in Sludge volume and ultimately reduction in pollution load in landfill.
4. We have obtained authorization from CPCB & GPCB for Co-process at Cement Plant instead of send for incineration, which obliquely protect the environment by reducing emission of flue gases.



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5. We have obtained authorization of Bio medical waste and membership of Care BMW Incinerators for safe disposal respect to protection of environment.
6. We have started the disposal of ETP Sludge to Cement Plant for Co Processing.
7. We have installed Multi column distillation plant for recovery of waste solvent from process.
8. Installed RO III / NF plant of 50KL is proposed to decrease the quantity of reject.
9. Installed Biogas plant for Canteen food waste and Bio slurry for generation of biogas and utilization in Canteen.
10. Installation of 10 TPH Briquette Fired Boiler to use green fuel and reduce usage of fossil fuel for environment conservation.

PART – I

Any other particulars for improving the quality of the environment.

1. We are certified for environment management system i.e. ISO 14001:2015, ISO 45001 and ISO: 9001:2015 from ISOQAR (Refer Annexure VI).
2. British Safety Council five star awards & sword of Honor in past.
3. Upgraded existing ETP & New ETP for betterment of effluent treatment.
4. ISO 50001: 2011 for energy management system.
5. No major accidents were reported during this year.
6. Industry has installed Organic Waste Converter machine for canteen waste treatment.
7. Biogas plant installed to reduce the greenhouse effect of waste.
8. Installation of 10 TPH Briquette Fired Boiler to use green fuel and reduce usage of fossil fuel for environment conservation.
9. ESG reporting started since FY 2020-2021. Made HSE data as a part of Integrated Report.
10. Member of portals- 'Manufacture 2030'; 'PSCI' for global reporting of HSE.

Form V 2023-24  
Torrent Pharma, Indrad

Date: 12/06/2024

Name : Ilesh Parikh *Ilesh Parikh*  
Designation : G.M.-HSE  
Address : Torrent Pharmaceuticals Ltd.  
Village: Indrad,  
Ahmedabad Mehsana Highway  
Tal.: Kadi  
Dist : Mehsana  
Gujarat

LIST OF ANNEXURES ATTACHED FOR ENVIRONMENTAL STATEMENT FOR  
THE YEAR 2022-23

Sr. No.	Annexure attached	Annexure no.
1.	Production capacity unit - list of product.	I
2.	Raw material consumption API Plant.	II-A
3.	Raw material consumption Formulation Plant.	II-B
4.	Hazardous waste details.	III
5.	Hazardous waste categorization, composition and disposal practices details.	IV