

PCB ID: 31236

TPL/HSE/ENV/2024/59

05<sup>th</sup> Sep, 2024

**Regional Officer,**  
Gujarat Pollution Control Board,  
Shed No.C-1/119/3, GIDC Estate,  
Phase-II, Narmadanagar, Bharuch-392135.

**Subject:** Submission of Environment Statement Form – V for the financial Year 2023-24.

Dear Sir,

With reference to above subject, we hereby submitting Environment Statement Form-V as per section 15 of The Environment (Protection) Rules, 1986.

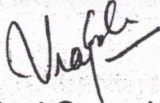
**The Consent details is as under,**

**CC&A No: AWH-134953, Granted On: 14/06/2024, valid up to 22/05/2029**

Requested to accept and acknowledge the same.

Thanking you,

Yours Faithfully,

**For Torrent Pharmaceuticals Ltd.**

Assistant General Manager – HSE

*Recd 5/9/24*  
Post Received  
Gujarat Pollution Control Board  
BHARUCH

Encl: 1) Environment Statement Form-V (2023-24)

**TORRENT PHARMACEUTICALS LIMITED**

CIN : L24230GJ1972PLC002126

Plot No. : Z 104 - 106, Dahej SEZ Part-II, Taluka: Vagra, Dist.: Bharuch - 392130, Gujarat, India. Phone: +91 2641 261300-303  
Reg.Office : Torrent House, Off Ashram Road, Ahmedabad - 380 009, India. Phone: +91 79 26585090 [www.torrentpharma.com](http://www.torrentpharma.com)



<b>FORM - V</b> (See Rule 14)			
ENVIRONMENTAL STATEMENT for the financial year ending the <b>31<sup>st</sup> March 2024</b>			
<b><u>PART - A</u></b>			
(i)	Name and address of the Owner/Occupier of the Industry operation or Process	:	<b>M/s. Torrent Pharmaceuticals Limited.</b> Z 104-107, Dahej SEZ-II, Taluka: Vagra, Dist: Bharuch-392130 Phone: 02641-261333/336
(ii)	Industry Category Primary (STC Code) Secondary (STC Code)	:	Red Category, Large Scale ( Located within DAHEJ SEZ Notified Industrial Estate)
(iii)	Production Capacity Units	:	Bulk drugs API : 34.1 MT/Annum Tablet/ Capsules : 750 Crores/Annum
(iv)	Year of establishment	:	2010
(v)	Date of the last Environmental Statement submitted	:	<b>21<sup>th</sup> September, 2023</b>
<b><u>PART - B</u></b>			
<b>Water and Raw Material Consumption</b>			
① Water Consumption m <sup>3</sup> /day:			
	Process	:	166 m <sup>3</sup> /day
	Boiler & Cooling	:	129 m <sup>3</sup> /day
	Domestic	:	83 m <sup>3</sup> /day
	<b>Name of Products</b>	<b>Process water consumption per unit of product output</b>	
		<b>During the Previous Financial Year (2022-2023)</b>	<b>During the current Financial Year (2023-24)</b>
		<b>(1)</b>	<b>(2)</b>
	<b>(1) Formulation (Tablets/Capsules)</b>	129 KL per Crore of Tablet/Capsules	193 KL per Crore of Tablet/Capsules
	<b>(2) API (Bulk Drugs)</b>	1.129KL / Kg of API (Bulk Drugs)	0 KL/Kg API plant is under shutdown.
<b>Raw material consumption</b>			
<b>Name of raw materials</b>	<b>Name of Products</b>	<b>Consumption of raw material per unit of output</b>	
		<b>During the Previous Financial Year (2022-23)</b>	<b>During the current Financial Year (2023-24)</b>
Kindly Refer <b>Annexure I</b> for Raw Material Details			



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

Pollutants	GPCB Norms	Unit	Quantity of Pollutants discharge (Kg/day)	Concentration of Pollutants discharged (mg/l) *	Percentage of variation from prescribed standards with reasons
<b>a) Water</b>					
<b>Industrial Treated Wastewater</b>					
*pH	6 to 9	--		7.35	Values are well within the prescribed limits stipulated by concerned regulatory authorities.
*Temperature	Shall not exceed more than 5°C above ambient water temperature	--		30.17	
*Color	All efforts shall be made to remove color	--		11.67	
*Odor	All efforts shall be made to remove unpleasant Odor	--		Unobjectionable	
Total Suspended Solids	100	mg/l	2.409	18.00	
Oil & Grease	10	mg/l	BDL	BDL	
Phenolic Compound	5	mg/l	BDL	BDL	
Cyanide	0.2	mg/l	BDL	BDL	
Fluoride as F	15	mg/l	0.083	0.62	
Sulphide as S	5	mg/l	0.196	1.47	
Pesticides/Insecticides	Absent	mg/l	BDL	BDL	
Ammonical Nitrogen as N	50	mg/l	0.707	5.30	
Total Kjeldhal Nitrogen as N	50	mg/l	1.046	7.84	
Nitrates Nitrogen	50	mg/l	BDL	BDL	
Free Ammonia	5	mg/l	0.044	0.33	
Arsenic as As	0.2	mg/l	BDL	BDL	



Pollutants	GPCB Norms	Unit	Quantity of Pollutants discharge (Kg/day)	Concentration of Pollutants discharged (mg/l) *		Percentage of variation from prescribed standards with reasons
				SBT-100 KL	SBT-50 KL	
Hexavalent Chromium as Cr <sup>+6</sup>	0.1	mg/l	BDL	BDL		
Total Chromium as Cr <sup>+3</sup>	1	mg/l	0.007	0.05		
Copper as Cu	3	mg/l	BDL	BDL		
Lead as Pb	0.1	mg/l	BDL	BDL		
Mercury as Hg	0.01	mg/l	BDL	BDL		
Nickel as Ni	3	mg/l	0.008	0.06		
Zinc as Zn	15	mg/l	0.007	0.05		
Cadmium as Cd	0.05	mg/l	BDL	BDL		
BOD (3 day @27°C)	100	mg/l	2.369	17.75		
COD	250	mg/l	8.505	63.73		
Bio assay	90% survival of fish after 96 Hrs in 100 % Effluent	mg/l	90% survival of fish after 96 Hrs in 100 % Effluent	90% survival of fish after 96 Hrs in 100 % Effluent		
Domestic Wastewater	--	--	--	SBT-100 KL	SBT-50 KL	
Residual Chlorine	Minimum 0.5	ppm	0.049	0.95	0.90	
BOD (3 day @27°C)	Less than 20	mg/l	0.428	9.42	7.42	
Total Suspended Solids	Less than 30	mg/l	0.458	10.33	7.80	
<p><b>Note:</b>  FY: 2023-2024;  Treated Effluent discharge quantity: 134 KLD, Treated Sewage quantity : 53.05 KLD  * Average of monthly effluent quality analysis conducted by NABL approved laboratory is taken as Source of data for calculations related to quantity of pollutants.</p>						



Parameter	GPCB Norms	Unit	Quantity of Pollutants discharge (Kg/day)	Concentration of Pollutants discharged (mg/Nm <sup>3</sup> ) & (ppm)*	Percentage of variation from prescribed standards with reasons	
<b>Flue gas Emission from stack attached to Boiler</b>						
SPM	150	mg/Nm <sup>3</sup>	12.031	25.25 mg/Nm <sup>3</sup>	Values are well within the prescribed limits stipulated by concerned regulatory authorities.	
SO <sub>2</sub>	100	ppm	17.010	13.63 ppm		
NO <sub>x</sub>	50	ppm	22.861	25.50 ppm		
<b>Flue gas Emission from stack attached to DG Set</b>						
PM	150	mg/Nm <sup>3</sup>	0.051	33.42 mg/Nm <sup>3</sup>		
SO <sub>2</sub>	100	ppm	0.091	22.50 ppm		
NO <sub>x</sub>	50	ppm	0.082	28.25 ppm		
<b>Process Emission from stack attached to API Module I Reaction Vessels/ Scrubbers</b>						
SO <sub>2</sub>	40	mg/Nm <sup>3</sup>	API plant is under shutdown.			
HCL	20	mg/Nm <sup>3</sup>				
<b>Process Emission from stack attached to API Module II Reaction Vessels/ Scrubbers</b>						
SO <sub>2</sub>	40	mg/Nm <sup>3</sup>	API plant is under shutdown.			
HCL	20	mg/Nm <sup>3</sup>				
* FY: 2023-2024; Average of monthly effluent quality analysis conducted by NABL approved laboratory is taken as Source of data for calculations related to quantity of pollutants.						

**PART - D****Hazardous Waste**

(as specified under Hazardous and other Wastes (Management & Transboundary Movement) Rules, 2016 and subsequent amendment)

Hazardous Wastes	Total Quantity (Kg.)	
	During the Previous Financial Year (2023-24)	During the current Financial Year (2024-25)
(a) From Process	Please Refer Annexure II	
(b) From pollution control facilities		



**PART – E****Solid Wastes**

	Total Quantity	
	During the previous Financial year (2022-23)	During the current Financial year (2023-24)
(a) From process	--	--
(b) From pollution control facilities	--	--
(c) (1) Quantity recycled or re-utilised within the unit	332.771 MT	365.979 MT
(2) Sold		
(3) Disposed		

**PART – F**

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

Please Refer Annexure –II for composition and quantum of hazardous waste.

Please Refer Part - E for details of Solid waste management.

**PART – G**

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

- **Torrent Pharmaceuticals limited** is certified for **ISO 14001: 2015, ISO 9001: 2015, ISO 45001: 2018** for effectiveness of Environment Management System.
- **Use of Clean fuel** (Natural Gas) to reduce the dependence on Natural resource of fresh coal/Lignite and emission (SPM, SO<sub>2</sub>, and NO<sub>x</sub>).
- Natural pond is available to collect rain water from entire plant which helps in ground water recharging and it is used for gardening which ultimately reduces intake water from the GIDC.
- Effluent recycling RO system generates permeate water being reused in cooling tower for utility operation
- Installed Bio Gas Plant based on waste to energy concept for canteen food waste treatment, Generated bio gas being used in canteen and manure used in landscape
- Construction of buildings with Green Building Concept for maximum utilisation of natural lighting insulated building to reduce heat load, energy optimisation in designing.

**PART – H**

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



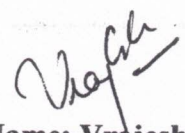
- Increase Green cover by growing plantations, Total green coverage are above 40%
- We have upgraded ETP laboratory for close monitoring of plant performance.
- Promote awareness among employees for more reuse, recycle, reduce and replace where ever possible.
- Industry has initiated maximum efforts towards disposal of Hazardous Waste for co-Processing/ Pre-processing, During the financial Year 2023-24, Industry have achieved Zero Waste Disposal for incineration.
- As a part of Environmental sustainability initiative, Industry has installed fire- briquette Boiler and Heat pump by investment of Rs. 15 Cr.

### **PART - I**

#### **Any other particulars for improving the quality of the environment.**

- Installation of water meters at all point of water distribution system to evaluate the domestic and industrial water consumption on daily basis and accordingly optimize the wastage of water in best possible way.
- Monitoring of environmental parameters such as ambient air, stack, Noise and wastewater quality being done regular basis through MoEF&CC and NABL recognized laboratory.
- Good housekeeping is in practice to reduce the fugitive emissions from the operations.
- Disposal of Recovered solvent, lead acid batteries, used oil & E-waste to authorized recycler only.
- Every year on the occasion of "World Environment Day" i.e. On 5<sup>th</sup> June, we organised function at TPL site. Various environmental protection related activities such as tree Plantation etc. were carried out.
- A dedicated greenbelt covering more than 40% of the total plot area has been developed. Green belt development and tree plantation is carried out inside & outside of the plant premises to increase the bio-diversity of the area. In future more plantations will be carried out.
- A Comprehensive Environment Audit is being carried out by GPCB approved Sch - I Auditor annually.
- No injury /accidents were reported during this year.

**Date: 05/09/2024**

  
**Name: Vrajesh shah**  
**Designation: AGM-HSE**