

O/c



PCB ID : 31236

20th Sep, 2023

TPL/HSE/ENV/2023/54

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 2022-23.

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 – 105366, Granted On: 25/11/2019, valid up to 22/05/2024

CC&A Amendment No: AWH – 114870, Granted On :21/09/2021, valid up to 22/05/2024

Requested to accept and acknowledge the same.

Thanking you,

Yours Faithfully,

For Torrent Pharmaceuticals Ltd.

Assistant General Manager – HSE

Blwik
Post Received
Gujarat Pollution Control Board
BHARUCH
22/9/23

Encl: 1) Environment Statement Form-V (2022-23)

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

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 operation or Process	:	M/s. Torrent Pharmaceuticals Limited. Z 104-107, Dahej SEZ-II, Taluka: Vagra, Dist: Bharuch-392130 Phone: 026417-261333/336
(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	:	5th August, 2022

PART – B**Water and Raw Material Consumption**

(i)	Water Consumption m ³ /day:		
	Process	:	144 m ³ /day
	Boiler & Cooling	:	139 m ³ /day
	Domestic	:	81 m ³ /day
	Name of Products	Process water consumption per unit of product output	
		During the Previous Financial Year (2021-2022)	During the current Financial Year (2022-23)
		(1)	(2)
	(1) Formulation (Tablets/Capsules)	163 KL per Crore of Tablet/Capsules	129 KL per Crore of Tablet/Capsules
	(2) API (Bulk Drugs)	0.604 KL / Kg of API (Bulk Drugs)	1.129KL / Kg of API (Bulk Drugs)
(ii)	Raw material consumption		
Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the Previous Financial Year (2021-22)	During the current Financial Year (2022-23)
Kindly Refer Annexure I 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
a) <u>Water</u>					Values are well within the prescribed limits stipulated by concerned regulatory authorities.
Industrial Treated Wastewater					
*pH	6 to 9	--	7.37		
*Temperature	Shall not exceed more than 5°C above ambient water temperature	--	29.08		
*Color	All efforts shall be made to remove color	--	31.67		
*Odor	All efforts shall be made to remove unpleasant Odor	--	unobjectionable		
Total Suspended Solids	100	mg/l	1.018	7.33	
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	0.055	0.40	
Sulphide as S	5	mg/l	BDL	BDL	
Pesticides/Insecticides	Absent	mg/l	Absent	Absent	
Ammonical Nitrogen as N	50	mg/l	2.027	14.6	
Total Kjeldhal Nitrogen as N	50	mg/l	2.569	18.5	
Nitrates Nitrogen	50	mg/l	0.514	3.70	
Free Ammonia	5	mg/l	0.353	2.5	
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
Hexavalent Chromium as Cr ⁺⁶	0.1	mg/l	BDL	BDL		
Total Chromium as Cr ⁺³	1	mg/l	BDL	BDL		
Copper as Cu	3	mg/l	0.010	0.070		
Lead as Pb	0.1	mg/l	0.013	0.093		
Mercury as Hg	0.01	mg/l	BDL	BDL		
Nickel as Ni	3	mg/l	0.005	0.03		
Zinc as Zn	15	mg/l	0.036	0.262		
Cadmium as Cd	0.05	mg/l	0.003	0.02		
BOD (3 day @27°C)	100	mg/l	2.364	17.03		
COD	250	mg/l	7.704	55.48		
Selenium as Se	0.05	mg/l	BDL	BDL		
*Bio assay	90% survival of fish after 96 Hrs in 100 % Effluent	--	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	0.062	1.13	0.87	
BOD (3 day @27°C)	Less than 20	mg/l	0.342	6.42	4.58	
Total Suspended Solids	Less than 30	mg/l	0.417	6.58	7.83	
Note: FY: 2022-2023; Treated Effluent discharge quantity: 139 KLD, Treated Sewage quantity : 59.36 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.						

b) <u>Air</u>	GPCB Norms	Unit	Quantity of Pollutants discharge (Kg/day)	Concentration of Pollutants discharged (mg/Nm ³) & (ppm)*	Percentage of variation from prescribed standards with reasons
Flue gas Emission from stack attached to Boiler					Values are well within the prescribed limits stipulated by concerned regulatory authorities.
PM	150	mg/Nm ³	0.00	BDL	
SO ₂	100	ppm	0.00	BDL	
NO _x	50	ppm	11.278	21.08 ppm	
Flue gas Emission from stack attached to DG Set					
PM	150	mg/Nm ³	0.076	40 mg/Nm ³	
SO ₂	100	ppm	0.155	31 ppm	
NO _x	50	ppm	0.097	33 ppm	
Process Emission from stack attached to API Module I Reaction Vessels/ Scrubbers					
SO ₂	40	mg/Nm ³	BDL	BDL	
HCL	20	mg/Nm ³	BDL	BDL	
Process Emission from stack attached to API Module II Reaction Vessels/ Scrubbers					
SO ₂	40	mg/Nm ³	BDL	BDL	
HCL	20	mg/Nm ³	BDL	BDL	
* FY: 2022-2023; 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 Waste Management and Handling Rules, 1989 and subsequent amendment)

Hazardous Wastes	Total Quantity (Kg.)	
	During the Previous Financial Year (2021-22)	During the current Financial Year (2022-23)
(a) From Process	Please Refer Annexure II	
(b) From pollution control facilities		

PART – E**Solid Wastes**

	Total Quantity	
	During the previous Financial year (2021-22)	During the current Financial year (2022-23)
(a) From process	--	--
(b) From pollution control facilities	--	--
(c) (1) Quantity recycled or re-utilised within the unit	347 MT	79.436 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, SO₂, NO_x).
- 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
- We have done agreement with M/s. RSPL for co-processing/ Pre-processing of Hazardous waste instead of Incineration.
- Construction of buildings with Green Building Concept for maximum utilisation of natural lighting insulated building to reduce heat load, energy optimisation in designing.

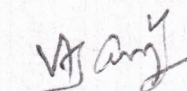
PART - H**Additional measures/investment proposal for environment protection including abatement of pollution / prevention of pollution.**

- 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.

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 5th June, we organised function at Atali Housing Colony. 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 major injury /accidents were reported during this year.

Date: 20/01/23



Name: Ashish Jani

Designation: AGM-HSE