

May 16, 2024

Chief Environmental Engineer
HP State Pollution Control Board
Baddi, Distt.- Solan
H.P.

Subject: Submission of Environmental Statement Report (Form - V) for the FY 2023 - 2024.

Dear Sir,

Please find enclosed herewith the Environmental Statement Report (Form - V) along with relevant Annexures for the period from 1st April 2023 to 31st March 2024 in compliance to the requirements mentioned under Environment Protection Act/ Rules. Hope you will find the same in order.

This for your kind perusal please.

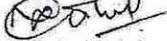
Thanking You.

Yours Faithfully,

For Torrent Pharmaceuticals Limited



Authorized Signatory



Encl: Environment Statement (Form - V)

Cc: The Member Secretary, HPSPCB, Him Parivesh, Phase-III, New Shimla - 9.



TORRENT PHARMACEUTICALS LIMITED

CIN : L24230GJ1972PLC002126

Nr. Baddi University, Village Bhud-Makhnu Majra, Tehsil : Baddi, Dist.:Solan (H.P)-173205, Phone: +91 1795 663900,
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 2024

PART- A

- (i) Name and address of the owner/occupier of the industry operation or process.
Sh. Jinesh Shah
Torrent Pharmaceuticals Ltd.
Village-Bhud, Makhanu majra
Tehsil-Baddi, Distt.-Solan
Himachal Pradesh - 173205
- (ii) Industry category Primary – (STC Code) Orange, Large
- (iii) Production capacity : Tablets, Capsule & Sachet = 812 Crore
(Annual Capacity)
- (iv) Year of establishment -November 2005
- (v) Date of the last environmental statement submitted: 14/08/2023

PART-B

WATER AND RAW MATERIAL CONSUMPTION

(1) Water consumption m³/day

Process:	96.73 m ³ /day
Cooling:	173.11 m ³ /day
Domestic:	161.48 m ³ /day

Process water consumption per unit of product output.

Name of Products	during the previous Financial Year (22-23) (1)	During the Current Financial Year (23-24) (2)
(Tablets	Process water Consumed= 29546 KL	Process water Consumed= 35404 KL
Sachet &	Total Production = 28954 Lacs	Total Production = 29530 Lacs
Capsules)	Water Consumption per unit = (1.02 kl/lac)	Water Consumption per unit=(1.20kl/lac)

(2) **Raw material consumption**

* Name of raw materials	Name of products	Consumption of raw material as per unit of output
During the previous financial Year. Year (22-23)		During the Current Financial Year Year (23-24)

Enclosed as Annexure-I

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

PART-C

POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT
(Parameter as specified in the consent issued)

(I) Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	(Average Value) TDS - 167.07 kg/day COD - 11.46 kg/day O&G - <0.57 kg/day BOD - 3.15 kg/day TSS - 0.72 kg/day	Test report enclosed (Annexure -IIA, B)	Within limits
(b) Air	Flue gases from stacks of Boiler (Average Value) PM = 0.965 kg/hr SO ₂ = 0.454 kg/hr NO _x = 1.170 kg/hr CO = 0.002 kg/hr	Test report enclosed (Annexure -IIIA, B, C, D, E, F)	Within limits
	Flue gases from stacks of DG sets (Average Value) PM = 0.095 kg/hr SO ₂ = 0.030 kg/hr NO _x = 0.812 kg/hr CO = 0.187 kg/hr	Test report enclosed (Annexure -IVA, B, C, D, E, F, G, H, I, J)	Within limits
	Ambient Air	Test report enclosed (Annexure -VA, B, C, D, E, F)	Within limits

**PART-D
HAZARDOUS WASTES**

(As specified under Hazardous Wastes/Management and Handling Rules, 2016)

Hazardous Waste :	Total Quantity (Kg)	
	During the previous financial year (22-23)	During the current financial year (23-24)
(a) From process	<ul style="list-style-type: none"> • Process Residue & Waste (Cat.28.1): <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 49106.37 KG ○ Disposal – 48777.65 KG ○ Closing Balance – 328.72 KG • Off specification products (28.4): <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 5078.91 KG ○ Disposal – 5078.91 KG ○ Closing Balance – Nil • Date expired products (28.5): <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 11412.43 KG ○ Disposal – 11412.43 KG ○ Closing Balance – Nil • Used or Spent oil (Cat.5.1) <ul style="list-style-type: none"> ○ Opening Stock – 305 Ltr. ○ Generation - 2524.88 Ltr ○ Disposal – 2559.88 Ltr, ○ Closing Balance - 270 Ltr. • Waste Residue containing oil (Cat.5.2) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 261.60 KG ○ Disposal – 261.60 KG ○ Stock Qty. – Nil • Empty barrels / containers / liners contaminated with hazardous chemicals /wastes Cat.(33.1) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 3109 Nos ○ Disposal – 3109 Nos ○ Closing Stock – Nil 	<ul style="list-style-type: none"> • Process Residue & Waste (Cat.28.1): <ul style="list-style-type: none"> ○ Opening Stock – 328.72 KG ○ Generation – 50570.42 KG ○ Disposal – 50398.54 KG ○ Closing Balance – 500.60 KG • Off specification products (28.4): <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 5529.80 KG ○ Disposal – 5529.80 KG ○ Closing Balance – Nil • Date expired products (28.5): <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 11016.06 KG ○ Disposal – 10887.56 KG ○ Closing Balance – 128.50 KG • Used or Spent oil (Cat.5.1) <ul style="list-style-type: none"> ○ Opening Stock - 270 Ltr. ○ Generation - 1971.30 Ltr ○ Disposal -1661.30 Ltr, ○ Closing Balance - 580 Ltr. • Waste Residue containing oil (Cat.5.2) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 348.20 KG ○ Disposal – 348.20 KG ○ Stock Qty. – Nil • Empty barrels / containers / liners contaminated with hazardous chemicals /wastes Cat.(33.1) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 3252 Nos ○ Disposal – 3252 Nos ○ Closing Stock – Nil

(Signature)

<p>(b) From pollution control facilities</p>	<ul style="list-style-type: none"> • Spent Chemicals /Residual Ink (Cat.32.1) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 268.62 KG ○ Disposal – 266.37 KG ○ Closing Stock – 2.25 KG • Spent Solvent (Cat.28.6) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – Nil ○ Disposal – Nil. ○ Closing Stock – Nil • Spent ion Exchange resin/Silica gel (Cat.35.2) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 1104.26 KG ○ Disposal – 1104.26 KG ○ Closing Stock – Nil • Chemical sludge from waste water treatment (Cat.35.3) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 23636.10 KG ○ Disposal – 22955.14 KG ○ Stock Qty. – 680.96 KG • Exhaust air and gas cleaning residue (Cat.35.1) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 2649.34 KG ○ Disposal – 2649.34 KG ○ Stock Qty. – Nil • Spent Carbon (Cat.28.3) <ul style="list-style-type: none"> ○ Opening Stock - Nil ○ Generation – 3746.14 KG ○ Disposal – 3746.14 KG ○ Closing Stock – Nil • Sludge from wet scrubber (Cat.37.1) <ul style="list-style-type: none"> ○ Opening Stock - Nil ○ Generation – 270.52 KG ○ Disposal – 270.52 KG ○ Closing Stock – Nil 	<ul style="list-style-type: none"> • Spent Chemicals /Residual Ink (Cat.32.1) <ul style="list-style-type: none"> ○ Opening Stock – 2.25 KG ○ Generation – 271.22 KG ○ Disposal – 273.47KG ○ Closing Stock – NIL • Spent Solvent (Cat.28.6) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 1.0 Ltr ○ Disposal – 1.0 Ltr ○ Closing Stock – Nil • Spent ion Exchange resin/Silica gel (Cat.35.2) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 695.73 KG ○ Disposal – 695.73 KG ○ Closing Stock – Nil • Chemical sludge from waste water treatment (Cat.35.3) <ul style="list-style-type: none"> ○ Opening Stock – 680.96 KG ○ Generation – 22541.89 KG ○ Disposal – 23222.85 KG ○ Stock Qty. – NIL • Exhaust air and gas cleaning residue (Cat.35.1) <ul style="list-style-type: none"> ○ Opening Stock – Nil ○ Generation – 3463.00 KG ○ Disposal – 3463.00 KG ○ Stock Qty. – Nil • Spent Carbon (Cat.28.3) <ul style="list-style-type: none"> ○ Opening Stock - Nil ○ Generation – NIL ○ Disposal – NIL ○ Closing Stock – Nil • Sludge from wet scrubber (Cat.37.1) <ul style="list-style-type: none"> ○ Opening Stock - Nil ○ Generation – 464.85 KG ○ Disposal – 464.85KG ○ Closing Stock – Nil
--	---	--

**PART-E
SOLID WASTES**

<u>Solid Wastes</u> (Non-hazardous) ?	Total Quantity	
	During the previous financial year (22-23)	During the current financial year (23-24)
(a) From process & other area	Enclosed as Annexure-VI	Enclosed as Annexure-VI
(b) From pollution control facility	Nil	Nil
(c) (1) Quantity recycled or re-utilised within the unit	Nil	Nil
(2) Sold	Enclosed as Annexure-VI	Enclosed as Annexure-VI
(3) Disposed	N.A.	N.A.

PART-F

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

Hazardous Waste:

- Hazardous waste as per Authorisation issued by HPSPCB under the HWM Rules are stored in the designated Hazardous Waste Storage shed and is disposed off to HPSPCB Approved TSDF Site (M/s Shivalik Solid Waste Management Ltd, Dhabota).
- ETP sludge fed into Decanter and dried in sludge drying beds, Packed in Double lined Poly Bags & stored in Hazardous Waste Storage Area. The same is also disposed off to HPSPCB Approved TSDF Site, SSWML, Dhabota.
- Used/spent Oil is stored in the sealed leak proof MS/ HDPE barrels in the designated Hazardous Waste Storage Shed and sold to authorised recycler/TSDF site
- Oil Filter & Oil Soaked cloths are stored in sealed HDPE Drum in Hazardous Waste Storage Shed and disposed off to approved TSDF Site.
- Barrels/containers contaminated with hazardous chemicals/ wastes are disposed to HPSPCB approved TSDF Site.



PART-G

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

- Reduction in plastic waste generation by continuous reduction in Shrinkwrap film consumption
- Removal of Pouch film from domestic sample pack & coverts to carton pack, Removal of TE Label
- Installed VFDs in all above 5KW machines for reduction in power consumption
- Installation of turbo ventilators and transparent sheets for making use of day lighting
- Reduction in Water consumption through various ongoing measures like Installation of Automatic Bin washing machine, Installation of Automatic FBD Bag washing machine, Waterless urinals, Sprinkler based irrigation system etc.
- Rain water harvesting system in place to recharge the ground water table since inception of plant.
- Steam condensate recovery system in place and upto 90% Recovery is done saving heat & water.
- Online display of Environmental Data as per HPSPCB Guidelines done on plant entrance.
- Various energy saving projects completed during the year are:
 - Installation of Heat pump system has resulted in saving of 283.46 Ton LSHS per annum resulting in saving of Rs 1.54 crore.
 - Revision of contract demand from 3800 KVA to 3200 KVA for 2 months resulting in saving of around Rs 6.0 lac/annum.
 - Replacement of Fossil fuels (LSHS) with Renewable Fuels (Biomass Briquettes) by installation of Biomass boiler and saving LSHS around 2000 MT/Annum
 - Installation of 24 kl/Day LTE system for recovery of water and recycling to boiler/cooling tower

PART-H

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

- Agreement with M/s Enviro Engineers (CBWTF) Vill. Sandli Distt. Solan (HP) for disposal of Bio medical waste.
- Agreement with M/s Shivalik Solid Waste Management Limited, Baddi for the disposal of hazardous waste as per Hazardous waste Rules
- Disposal of 100 % treated water to CETP through dedicated pipeline

- It is Proposed to be installed Paddle Sludge Dryer for immediate drying of ETP sludge.
- Energy saving by synchronization of all DG Sets – Annual Saving 15217 KWH
- Saving by switch off of non-essential lights in production corridor
- Saving by switch off of one AHU at FG Store during winter season only

PART-I

Any other particulars for improving the quality of the environment.

- Implementation of Environmental Management Systems as per ISO-14001:2015 & Safety Management Systems as per ISO-45001:2018.
- More than thirty thousand numbers of trees & shrubs planted in company premises.
- Water less urinals implemented in production areas to reduce water consumption.
- Sensor based taps installation at plant to reduce water consumption.
- More than 12 MT of Bio composting manure in own Organic Waste Converter (OWC) from tree leaves and other bio – degradable, kitchen waste and used in horticulture.
- Timer based street lights have been installed to save electricity