

29th September, 2021

Visakhapatnam

To

The Environment Engineer

AP Pollution Control Board

Plot No-14, Flat No-103 & 104

Journalist Colony, Marripalem Vuda Colony,

Visakhapatnam-530009

Subject: Submission of Environmental Statement for the period 2020-21.

Respected Sir,

With reference to the above said subject we are herewith submitting Environmental Statement in prescribed format FORM -V for the period 2020-21 ending with 31st March 2021.

Kindly acknowledge the same.

Thanking You

For Torrent Pharmaceuticals Limited


29/09/2021
(Akash Patel)

GM - Manufacturing

TORRENT PHARMACEUTICALS LIMITED

CIN : L24230GJ1972PLC002126

Plot No. 77, Jawaharlal Nehru Pharmacy, Thanam Village, Parawada Mandal, Visakhapatnam Dist.-531021 A.P. Ph. : 0891-6136500
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 2021

PART-A

- (i) Name and address of owner/Occupier : Torrent Pharmaceuticals Limited, Plot No: 77, JN Pharma city, Thanam (V), Parawada (M), Visakhapatnam-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 : 16th September 2020
submitted

PART-B

Water and Raw material consumption

(1) Water Consumption m3/day:

Process	:	3.7
Cooling	:	18.68 (Cooling +Boiler feed)
Domestic	:	9.24

Sr No	Name of Product	Process water consumption per unit of product output (m3/day)	
		During the previous financial year	During the current financial year
1	API & Intermediates	10.32	1.45

Sr No	Name of Raw material consumption	Name of Product	Consumption of raw material per unit of output	
			During the previous financial year FY 19-20	During the current financial year FY 20-21
1	2Chloromethoxy143Methoxy Propoxy3Methyl pyridine Hydrochloride	Rabeprazole Sodium	0	1.47
2	2-Chloromethyl-3,5-Dimethyl-4-Methoxy Pyridine Hydrochloride	Esomeprazole Magnesium Stage-III (Intermediate)	0	1.36
3	Nicotinic Acid	Intermediat.Of Nicorandil	0	1.6
4	6-Chloro-9H-Purin-2-Amine	Penciclovir	0	25.9
5	31dimethyl amine ethyl Phenol HCL	Rivastigmine Hydrogen Tartarate	0.50	3.57
6	N-Ethyl-N-Methyl Carbamoyl Chloride		0	2.96

7	MSNH(N'-Methane Sulfonyl Nicotinic Hydra	TRC4186	0	0.92
8	2-Cat (2-Chloro-1-Thien-2-Ylethanone)		0	0.82
9	3-Nitro thalic acid	Candesartan cilenxetil	0.54	0
10	2-Chloromethyl-3,5-Dimethyl-4-Methoxy Pyridine Hydrochloride	Esomeprazole magnesium stage-III	1.33	0
11	23-DichloroBenzoy Nitrile	Lamotrigine	1.33	0.84
12	Nicotinic Acid	Nicorandil	0	0
13	D (-) Fructose	Topiramate	0	1.2
14	4-(2-Bromoethyl)-3-Chloro-1,3-Dihydro-2h	Ropinirole Hydrochloride	0	2.4
15	2-Amino-5-Methylthiophene-3-Carbonitrile	Olanzapine	0.71	1.37
16	Olanzapine (IP)	Olanzapine pamoate	2.17	0

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	
			During the previous financial year (2019-20) in TPA	During the current financial year (2020-21) in TPA
1	Process and Organic Residue	From process	2.858	0.208
2	Inorganic Solid Waste & Salts (Inorganic Process Salts)	From process	0.456	1.5
3	Spent Carbon+Hyflow	From process	0.73	5.03
4	ETP Sludge	From pollution control facilities	0.036	3.83
5	Sodium Hydride Empty bags	From process	0	0
6	Rejected product	From process	1.265	989
7	Used PPE	From process	0.62	1.341
8	Rejected raw materials	From process	3.469	2590
9	HEPA Filters	From process	0	0
10	Insulation wool	From process	0.767	0
11	Thermocol	From process	0.063	0.046
12	HDPE/LDPE Bags	From process	0	0.15
13	Expired Laboratory Chemicals	From process	0.39	0.18
14	Filtration Bags	From process	0.034	0.205
15	Contaminated sand	From pollution control facilities	0	0

16	General waste	From process	1.07	28
17	Foam	From process	0	0
18	Cooling tower packing material	From process	0	0
19	Used Oil	From process	0.115	0
20	Empty barrels /Liners Contaminated with hazardous Chemicals waste	From process	2.02	12.01
21	Cooling tower sludge	From Process	1.95	0

PART-E Solid Waste

Sr No	Solid waste	Total quantity (Kg)	
		During the previous financial year	During the 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	S.S.V Fine chem, PlotNo.4F, DE-Notified Area, APSEZ, Atchutapuram, Rambilli(M), Visakhapatnam (D)
Used Oils	Authorized reproprocessors/recyclers	Send to M/s. NSR Industries, IDA Phase-I, Peddapuram, East Godavari Distn Andhra Pradesh. (Handed over to the industry's warehouse at Pendurthy Visakhapatnam.)
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

Type of Hazardous waste	Disposal Mode	Disposal Facility
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.

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.

- Biomass Briquettes as fuel to Boiler.
- Plastic waste segregation at food serving areas.
- Replacement of plastic water bottles with SS water bottles.
- Avoiding process seepages, spillages by stringent monitoring.
- Facility upgradation has been done against the Storm water drainage system.
- LEL detector installed at solvent tank farm area.

- Hydrogen & Nitrogen generators are replaced with cylinders @QC
- HPLC area installed H2 & O2 detectors as a part of leakages.

PART-H

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

- Proposed for avenue plantation of area 4 km by Social Forestry Department.
- Proposed to procure portable VOC.

PART -I

Any other particulars for improving the quality of the environment.

- HSE Policy revised 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
- 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: 29/09/2021



29/09/2021



29/09/2021

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

Name : Akash Patel

Designation : GM - Manufacturing

Address: M/s. Torrent Pharmaceuticals Limited.,

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

ANNEXURE-I

Effluent Disposal for the year 2020 - 21			
S. No	Month of disposal	LTDS Effluent Quantity(KL)	HTDS Effluent Quantity(KL)
1	Apr-20	480	203
2	May-20	617	160
3	Jun-20	700	150
4	Jul-20	375	368
5	Aug-20	263	617
6	Sep-20	175	460
7	Oct-20	300	425
8	Nov-20	375	379
9	Dec-20	425	326
10	Jan-21	300	520
11	Feb-21	325	320
12	Mar-21	325	310

ANNEXURE-II

LTDS Effluent Report (Jun'2020)

Sai Laboratories Pvt. Ltd.
 Regd. Office: W.E.E. Bldg., New Delhi and NABL ACCREDITED
 Plot No. 27, DDA Estate, Sanghvi Mah. Road, Vasant Vihar, New Delhi-110014
 Tel: 011-2611 2001, 2002, 2003, Fax: 011-2611 2000
 Email: info@slpltd.com, Website: www.slpltd.com

TEST REPORT

Report Number: SLPL/2020/JUN/WE1149

Name of the Customer: M/s. Thyroed Pharmaceuticals Ltd Plot No 77, I.N. Panna City, Pawapada Model, Tharua Village, Vadhapuram - 531 021	Request Number: SLPL/2020/JUN/WE1149 Request Date: 06.07.2020 Analysis Completion Date: 07.07.2020 Analysis Starting Date: 27.06.2020 Registration Date: 27.06.2020 Date of receipt: 27.06.2020
Sample Name: -- Sample Condition at Receipt: Fused & Sampling Location: LTDS Effluent Test Required: As given below	Sample Particulars: Water Sample Collected By: SLPL
Sample Quantity Received: 10 * 100 ml in plastic can	

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
1*	Temperature	APHA 25 th Edition 2550 B	°C	36	--
2	pH	APHA 25 th Edition 4500 H+ B	--	7.62	5.5-9.0
3	Total Dissolved Solids	APHA 25 th Edition 2540 C	mg/l	1656	2000
4	Total Suspended Solids	APHA 25 th Edition 2540 D	mg/l	62	100
5	Chemical Oxygen Demand	APHA 25 th Edition 5200 - B	mg/l	250	250
6	Biological Oxygen Demand (at 20 °C)	APHA 25 th Edition 5210 - B	mg/l	154	10
7	Oil & Grease	APHA 25 th Edition 5505 - B	mg/l	6.0	10
8*	Arsenic as Ar	APHA 25 th Edition 3300 A+B	mg/l	<0.05	0.5
9*	Mercury as Hg	APHA 25 th Edition 3300 Bp	mg/l	<0.001	0.01
10*	Total as Pb	APHA 25 th Edition 3111B	mg/l	0.16	1.0

Page 1 of 2

Note: This report is subject to terms and conditions mentioned on back.

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 Tel: 011-2611 2001, 2002, 2003, Fax: 011-2611 2000
 Email: info@slpltd.com, Website: www.slpltd.com

TEST REPORT

Report Number: SLPL/2020/JUN/WE1149

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
11*	Cadmium as Cd	APHA 25 th Edition 3111B	mg/l	<0.002	1.0
12*	Hexavalent Chromium as Cr+6	APHA 25 th Edition 2540 C+D	mg/l	<0.01	2.0
13*	Total Chromium as Cr	APHA 25 th Edition 3111B	mg/l	<0.02	2.0
14*	Copper as Cu	APHA 25 th Edition 3111B	mg/l	0.71	3.0
15*	Zinc as Zn	APHA 25 th Edition 3111B	mg/l	0.12	15
16	Ammoniacal Nitrogen as N	APHA 25 th Edition 4500 NH ₃ B,C	mg/l	4.54	50
17*	Nitrite as N	APHA 25 th Edition 4510 B	mg/l	<0.01	0.20
18	Cyanide as CN	APHA 25 th Edition 4500 CN C, B	mg/l	<0.01	3.0

Note: The above * Signel parameters are not under NABL scope

Verified by: **D. Kishore Kalyan**
 Technical Manager

Authorized Signatory
Alfonso Sutyasaivanya
 Managing Director

End of report

Page 2 of 2

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HTDS Effluent Report (Jun'2020)

Sai Laboratories Pvt. Ltd.
 Regd. Office: W.E.E. Bldg., New Delhi and NABL ACCREDITED
 Plot No. 27, DDA Estate, Sanghvi Mah. Road, Vasant Vihar, New Delhi-110014
 Tel: 011-2611 2001, 2002, 2003, Fax: 011-2611 2000
 Email: info@slpltd.com, Website: www.slpltd.com

TEST REPORT

Report Number: SLPL/2020/JUN/WE1150

Name of the Customer: M/s. Thyroed Pharmaceuticals Ltd Plot No 77, I.N. Panna City, Pawapada Model, Tharua Village, Vadhapuram - 531 021	Request Number: SLPL/2020/JUN/WE1150 Request Date: 07.07.2020 Analysis Completion Date: 07.07.2020 Analysis Starting Date: 27.06.2020 Registration Date: 27.06.2020 Date of receipt: 27.06.2020
Sample Name: -- Sample Condition at Receipt: Fused & Sampling Location: HTDS Effluent Test Required: As given below	Sample Particulars: Water Sample Collected By: SLPL
Sample Quantity Received: 10 * 100 ml in plastic can	

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
1*	Temperature	APHA 25 th Edition 2550 B	°C	37	--
2	pH	APHA 25 th Edition 4500 H+ B	--	7.29	5.5-9.0
3	Total Dissolved Solids	APHA 25 th Edition 2540 C	mg/l	2232	2000
4	Total Suspended Solids	APHA 25 th Edition 2540 D	mg/l	96	100
5	Chemical Oxygen Demand	APHA 25 th Edition 5200 - B	mg/l	1650	250
6	Biological Oxygen Demand (at 20 °C)	APHA 25 th Edition 5210 - B	mg/l	644	10
7	Oil & Grease	APHA 25 th Edition 5505 - B	mg/l	65	10
8*	Arsenic as Ar	APHA 25 th Edition 3300 A+B	mg/l	<0.05	0.5
9*	Mercury as Hg	APHA 25 th Edition 3300 Bp	mg/l	<0.001	0.01
10*	Total as Pb	APHA 25 th Edition 3111B	mg/l	1.66	1.0

Page 1 of 2

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 Email: info@slpltd.com, Website: www.slpltd.com

TEST REPORT

Report Number: SLPL/2020/JUN/WE1150

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
11*	Cadmium as Cd	APHA 25 th Edition 3111B	mg/l	0.39	1.0
12*	Hexavalent Chromium as Cr+6	APHA 25 th Edition 2540 C+D	mg/l	0.14	2.0
13*	Total Chromium as Cr	APHA 25 th Edition 3111B	mg/l	0.17	2.0
14*	Copper as Cu	APHA 25 th Edition 3111B	mg/l	0.52	3.0
15*	Zinc as Zn	APHA 25 th Edition 3111B	mg/l	0.30	15
16	Ammoniacal Nitrogen as N	APHA 25 th Edition 4500 NH ₃ B,C	mg/l	14.8	50
17	Nitrite as N	APHA 25 th Edition 4510 B	mg/l	0.11	0.20
18	Cyanide as CN	APHA 25 th Edition 4500 CN C, B	mg/l	<0.01	3.0

Note: The above * Signel parameters are not under NABL scope

Verified by: **D. Kishore Kalyan**
 Technical Manager

Authorized Signatory
Alfonso Sutyasaivanya
 Managing Director

End of report

Page 2 of 2

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LTDS Effluent Report(Dec'2020)

Sai Laboratories Pvt. Ltd.
Recognized by: M.S.E., S.O., New Delhi and NABL ACCREDITED
Plot No. 211, Chakla Estate, Sanghvi Main Road, Hyderabad-500 016.
Tel: 240 288 6888
Email: info@slplab.com | Website: www.slplab.com

TEST REPORT

Name of the Customer:
M/s. Torven Pharmaceuticals Ltd
 Plot No. 77, J.N. Planning City,
 Panavada Mandal, Yasanu Village,
 Visakhapatnam - 531 021

Sample Name: --
Sample Condition at Receipt: Found ok
Sampling Location: Effluent Effluent
Test Requested: As given below

Report Number: SLPL/2020/12/WS-4003
Report Date: 20.12.2020
Analysis Completion Date: 20.12.2020
Analysis Starting Date: 24.12.2020
Registration Date: 24.12.2020
Date of receipt: 20.12.2020
Sample Particulars: Water
Sample Collected By: S1 PL
Sample Quantity Received: 1L * 50ml in plastic can

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
1*	Temperature	APHA 22 nd Edition 2500 B	°C	29	--
2	pH	APHA 22 nd Edition 4500 H+ B	--	7.55	5.5-9.0
3	Total Dissolved Solids	APHA 22 nd Edition 2540 C	mg/l	2028	2100
4	Total Suspended Solids	APHA 22 nd Edition 2540 D	mg/l	106	100
5	Chemical Oxygen Demand	APHA 22 nd Edition 5220 - B	mg/l	2100	350
6	Biological Oxygen Demand (at 27° C)	APHA 22 nd Edition 5210 - B	mg/l	700	10
7	Oil & Grease	APHA 22 nd Edition 9220 - B	mg/l	46	10
8*	Ammonia as N	APHA 22 nd Edition 3500 As B	mg/l	< 0.05	0.5
9*	Mercury as Hg	APHA 22 nd Edition 3500 Hg	mg/l	< 0.001	0.01
10*	Lead as Pb	APHA 22 nd Edition 3111B	mg/l	1.89	1.0

Page 1 of 2

Sai Laboratories Pvt. Ltd.
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Tel: 240 288 6888
Email: info@slplab.com | Website: www.slplab.com

TEST REPORT

Name of the Customer:
M/s. Torven Pharmaceuticals Ltd
 Plot No. 77, J.N. Planning City,
 Panavada Mandal, Yasanu Village,
 Visakhapatnam - 531 021

Sample Name: --
Sample Condition at Receipt: Found ok
Sampling Location: Effluent Effluent
Test Requested: As given below

Report Number: SLPL/2020/12/WS-4003
Report Date: 20.12.2020
Analysis Completion Date: 20.12.2020
Analysis Starting Date: 24.12.2020
Registration Date: 24.12.2020
Date of receipt: 20.12.2020
Sample Particulars: Water
Sample Collected By: S1 PL
Sample Quantity Received: 1L * 50ml in plastic can

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
11*	Calcium as Ca	APHA 22 nd Edition 3111B	mg/l	< 0.002	1.0
12*	Hexavalent Chromium as Cr 16	APHA 22 nd Edition 3000 Cr B	mg/l	< 0.01	2.0
13*	Total Chromium as Cr	APHA 22 nd Edition 3111B	mg/l	< 0.02	2.0
14*	Copper as Cu	APHA 22 nd Edition 3111B	mg/l	0.81	3.0
15*	Zinc as Zn	APHA 22 nd Edition 3111B	mg/l	0.15	15
16	Ammonical Nitrogen as N	APHA 22 nd Edition 4500 NH ₃ & C	mg/l	0.26	50
17*	Nickel as Ni	APHA 22 nd Edition 5311B	mg/l	< 0.01	0.50
18	Cyanide as CN	APHA 22 nd Edition 4500 CN-C, I	mg/l	< 0.01	3.0

Note: The above * Signd parameters are not under NABL scope

Verified by
D. Krishna Kalyani
Technical Manager

Authorized Signatory
Alamu Satyanarayana
Managing Director

End of report

Page 2 of 2

HTDS Effluent Report(Dec'2020)

Sai Laboratories Pvt. Ltd.
Recognized by: M.S.E., S.O., New Delhi and NABL ACCREDITED
Plot No. 211, Chakla Estate, Sanghvi Main Road, Hyderabad-500 016.
Tel: 240 288 6888
Email: info@slplab.com | Website: www.slplab.com

TEST REPORT

Name of the Customer:
M/s. Torven Pharmaceuticals Ltd
 Plot No. 77, J.N. Planning City,
 Panavada Mandal, Yasanu Village,
 Visakhapatnam - 531 021

Sample Name: --
Sample Condition at Receipt: Found ok
Sampling Location: Effluent Effluent
Test Requested: As given below

Report Number: SLPL/2020/12/WS-4004
Report Date: 20.12.2020
Analysis Completion Date: 20.12.2020
Analysis Starting Date: 24.12.2020
Registration Date: 24.12.2020
Date of receipt: 20.12.2020
Sample Particulars: Water
Sample Collected By: S1 PL
Sample Quantity Received: 1L * 50ml in plastic can

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
1*	Temperature	APHA 22 nd Edition 2500 B	°C	28	--
2	pH	APHA 22 nd Edition 4500 H+ B	--	7.55	5.5-9.0
3	Total Dissolved Solids	APHA 22 nd Edition 2540 C	mg/l	2028	2100
4	Total Suspended Solids	APHA 22 nd Edition 2540 D	mg/l	106	100
5	Chemical Oxygen Demand	APHA 22 nd Edition 5220 - B	mg/l	2100	350
6	Biological Oxygen Demand (at 27° C)	APHA 22 nd Edition 5210 - B	mg/l	700	10
7	Oil & Grease	APHA 22 nd Edition 9220 - B	mg/l	46	10
8*	Ammonia as N	APHA 22 nd Edition 3500 As B	mg/l	< 0.05	0.5
9*	Mercury as Hg	APHA 22 nd Edition 3500 Hg	mg/l	< 0.001	0.01
10*	Lead as Pb	APHA 22 nd Edition 3111B	mg/l	1.89	1.0

Page 1 of 2

Sai Laboratories Pvt. Ltd.
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Tel: 240 288 6888
Email: info@slplab.com | Website: www.slplab.com

TEST REPORT

Name of the Customer:
M/s. Torven Pharmaceuticals Ltd
 Plot No. 77, J.N. Planning City,
 Panavada Mandal, Yasanu Village,
 Visakhapatnam - 531 021

Sample Name: --
Sample Condition at Receipt: Found ok
Sampling Location: Effluent Effluent
Test Requested: As given below

Report Number: SLPL/2020/12/WS-4004
Report Date: 20.12.2020
Analysis Completion Date: 20.12.2020
Analysis Starting Date: 24.12.2020
Registration Date: 24.12.2020
Date of receipt: 20.12.2020
Sample Particulars: Water
Sample Collected By: S1 PL
Sample Quantity Received: 1L * 50ml in plastic can

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
11*	Calcium as Ca	APHA 22 nd Edition 3111B	mg/l	0.43	1.0
12*	Hexavalent Chromium as Cr 16	APHA 22 nd Edition 3000 Cr B	mg/l	0.25	2.0
13*	Total Chromium as Cr	APHA 22 nd Edition 3111B	mg/l	0.19	2.0
14*	Copper as Cu	APHA 22 nd Edition 3111B	mg/l	0.40	3.0
15*	Zinc as Zn	APHA 22 nd Edition 3111B	mg/l	0.43	15
16	Ammonical Nitrogen as N	APHA 22 nd Edition 4500 NH ₃ & C	mg/l	15.9	50
17	Nickel as Ni	APHA 22 nd Edition 5311B	mg/l	0.16	0.50
18	Cyanide as CN	APHA 22 nd Edition 4500 CN-C, I	mg/l	< 0.01	3.0

Note: The above * Signd parameters are not under NABL scope

Verified by
D. Krishna Kalyani
Technical Manager

Authorized Signatory
Alamu Satyanarayana
Managing Director

End of report

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ANNEXURE-III

AMBIENT AIR QUALITY

Location	Parameter	Limit	Min	Max	Avg.
Near Security	PM 2.5	60 µg/m ³	22.9	28.2	25.3
	PM 10	100 µg/m ³	56.3	68.4	62.1
	SO ₂	80 µg/m ³	16.3	20.3	18.3
	NOX	80 µg/m ³	19.7	25.1	23.2
Near E-Block	PM 2.5	60 µg/m ³	22.4	25.6	23.7
	PM 10	100 µg/m ³	52.4	59.3	55.9
	SO ₂	80 µg/m ³	16.4	19.3	17.8
	NOX	80 µg/m ³	19.1	24.5	22.4
Near Boiler	PM 2.5	60 µg/m ³	24.1	27.2	25.8
	PM 10	100 µg/m ³	62.4	68.7	65.7
	SO ₂	80 µg/m ³	17.4	22.7	20.6
	NOX	80 µg/m ³	22.9	27.4	24.4

AMBIENT NOISE LEVELS

Near Security Gate (Day time)	Noise Level	75dBA	58.5	66.3	63.9
Near D.G Room (Day time)		75dBA	55.2	69.4	64.9
Near Utility (Day time)		75dBA	69.8	72.9	70.7
Near Security Gate (Night time)		70dBA	52.1	56.4	54.7
Near D.G Room (Night time)		70dBA	50.4	61.2	56.5
Near Utility (Night time)		70dBA	65.8	68.5	67.3

PROCESS EMISSION

Location	Parameter	Limit	Min	Max	Avg.
SCB/A01	Acid Mist	35 PPM	16.2	23.4	19.7
SCB/D01		35 PPM	15.5	23.5	19.0667
SCB/D02		35 PPM	15.1	15.8	15.45
SCB/DC		35 PPM	15.3	16.1	15.7

FLUE GAS EMISSION

Location	Parameter	Limit	Min	Max	Avg.
Boiler	PM	100 mg/Nm ³	63.7	72.2	68.66
	SO ₂	-	71.9	86.3	79.5375
	NOX	-	85.3	98.4	91.575
	PM Inlet	-	284.2	290.1	287.15
	Efficiency of	%	97.5	97.5	97.5
DG Set 1	PM	100 mg/Nm ³	0.23	0.26	0.245
	SO ₂	-	2.28	2.28	2.28
	NOX	-	1.42	1.53	1.475
DG Set 2	PM	100 mg/Nm ³	0.23	0.25	0.24
	SO ₂	-	2.36	2.36	2.36
	NOX	-	1.49	1.53	1.51