

26th September, 2022

Visakhapatnam

To
The Environment Engineer
AP Pollution Control Board
Plot No-14, Flat No-103 & 104
Journalist Colony, Marripalem Vuda Colony,
Visakhapatnam-530009

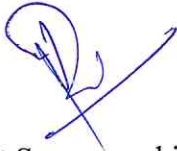
Subject: Submission of Environmental Statement for the period 2021-22.

Respected Sir,

With reference to the above said subject we are herewith submitting Environmental Statement in prescribed format FORM –V for the period 2021-22 ending with 31st March 2022.

Kindly acknowledge the same.

Thanking You
For Torrent Pharmaceuticals Limited



(Ranjit Suryawanshi)
GM - Manufacturing

TORRENT PHARMACEUTICALS LIMITED

CIN : L24230GJ1972PLC002126

FORM V

(See Rule 14)

Environmental Statement for the financial year ending the 31st March 2022

PART-A

- (i) Name and address of owner/Occupier of industry operation or process : Torrent Pharmaceuticals Limited, Plot No: 77, JN Pharma city, Thanam (V), Parawada (M), Visakhapatnam-531021
- (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 submitted : 29th September 2021

PART-B

Water and Raw material consumption

(1) Water Consumption m3/day:

Process	:	1.28
Cooling	:	17.78 (Cooling +Boiler feed)
Domestic	:	11.33

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	1.45	1.28

Name of Product	Name of Raw Material consumption	Consumption of raw material per unit of output (Kg)	Consumption of raw material per unit of output (Kg)
		During the financial year	During the financial year
		FY 20-21	FY 21-22
Lamotrigine	23-DichloroBenzoy Nitrile	0.84	1.09
Olanzapine	2Amino5Methylthiophene3Carbonit rile	1.37	1.38
Rivastigmine Hydrogen Tartarate	N-Ethyl-N-Methyl Carbamoyl Chloride	2.96	3.79
	31dimethyl amine ethyl Phenol HCL	3.57	4.57
Esomeprazole Magnesium Stage-III (Intermediate)	2Chloromethyl35Dimethyl4Methoxy Pyridine Hydrochloride	1.36	0.77

Name of Product	Name of Raw Material consumption	Consumption of raw material per unit of output (Kg)	Consumption of raw material per unit of output (Kg)
		During the financial year	During the financial year
		FY 20-21	FY 21-22
Rabeprazole Sodium	2Chloromethoxy143Methoxy Propoxy3Methyl pyridine Hydrochloride	1.47	4.1
Ropinirole Hydrochloride	4-(2-Bromoethyl)-3-Chloro-1,3-Dihydro-2h	2.4	3.99
Nicorandil	Nicotinic Acid	1.6	1.7
Topiramate	D (-) Fructose	1.2	1.91
Penciclovir	6-Chloro-9H-Purin-2-Amine	25.9	17.08
TRC4186	MSNH(N'-Methane Sulfonyl Nicotinic Hydra	0.92	0
	2-Cat (2-Chloro-1-Thien-2-Ylethanone)	0.82	0
TRC150094 API	TRC150094 KSM-I	0	0.76
Lercanidipine Hydrochloride	2,N-dimethyl-N-(3,3-diphenyl	0	1.88
Candesartan	METHYL-2-ETHOXY-1-[[2-(1H-TETRAZOLE-5-	0	1.89
Olanzapine Embonate	Pamoic acid	0	0.56
Sildenafil Citrate	4-(2-ETHOXY BENZAMIDO)-1-METHYL-3n PROPY	0	1.17
Zolpidem Tartrate	6-METHYL-2-(4-METHYLPHENYL)IMIDAZO	0	0.78
Pantoprazole sodium	2-(CHLOROMETHYL)-3,4-DIMETHOXY PYRIDINE	0	0.66

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 current financial year (2020-21) TPA	During the current financial year (2021-22) TPA
1	Process and Organic Residue	From process	0.208	0.14
2	Inorganic Solid Waste & Salts (Inorganic Process Salts)	From process	1.5	6.40
3	Spent Carbon+Hyflow (Spent Carbon)	From process	5.03	3.88
4	ETP Sludge	From pollution control facilities	3.83	2.89
5	Sodium Hydride Empty bags	From process	0	0
6	Rejected product	From process	0.99	0.70
7	Used PPE	From process	1.341	0.88
8	Rejected raw materials	From process	2590	1.97
9	HEPA Filters	From process	0	0
10	Insulation wool	From process	0	1.66
11	Thermocol	From process	0.046	0.09
12	HDPE/LDPE Bags	From process	0.15	0
13	Expired Laboratory Chemicals	From process	0.18	0.05
14	Filtration Bags	From process	0.205	0.190
15	Contaminated sand	From pollution control facilities	0	0
16	General waste	From process	28	0
17	Foam	From process	0	0.02
18	Cooling tower packing material	From process	0	0
19	Used Oil	From process	0	0.44
20	Empty barrels/Container/Liners Contaminated with hazardous Chemicals waste	From process	12.01	5.11
21	Cooling tower sludge	From Process	0	0.94
22	Coal Ash	From Boiler	76.4	56.65
23	Spent Solvent	From Process	68.18	516.19

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 Zen Lubs Plot No. 62, E- Block, Auto Nagar, Visakhapatnam - 530012
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
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

Type of Hazardous waste	Disposal Mode	Disposal Facility
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.

- Underground seepage water (freshwater) diverted through drainage to storm water pit and using for garden watering purpose. In line with utilization of natural resources as a water conservation plan.
- 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.

- Avenue plantation of 2 km area plantation done by Social Forestry Department near Narsipatnam from Subbarayadupalem to Pedaboddepalli.
- Procured a portable VOC detector.
- Installed vent condensers to underground and above ground storage tanks.

PART -I

Any other particulars for improving the quality of the environment.

- NaOH liquid Dosing system under progress: Currently we are preparing NaOH solution by using caustic flakes for effluent neutralization purpose.
- 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: 26/09/2022



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

Name : Ranjit Suryawanshi

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 2021 - 22			
S. No	Month of disposal	LTDS Effluent Quantity(KL)	HTDS Effluent Quantity(KL)
1	Apr-21	450	200
2	May-21	400	353
3	Jun-21	500	157
4	Jul-21	475	320
5	Aug-21	575	320
6	Sep-21	550	290
7	Oct-21	575	400
8	Nov-21	475	400
9	Dec-21	550	460
10	Jan-22	500	360
11	Feb-22	525	172
12	Mar-22	625	325

ANNEXURE-II

LTDS Effluent Report (Jun'2021)

Sai Laboratories Pvt. Ltd.
 Registered to: M.A.R.C. (E.O.), New Delhi and MHA, APJKT/2018
 Plot No. 211, Datta Colony, Boppal, Dist. Bhopal, M.P. 462018
 Tel: 0672610101
 Email: sai@saialab.com | Website: www.saialab.com

TEST REPORT

Report Number: SLPL/2021/06/W22200

Name of the Client: M/s. Torvas Pharmaceuticals Ltd
 Plot No. 77, 224, Pharma City,
 Panchsahi Market, Phase V Stage,
 Vindhyacharya - 321 001

Report Date: 06.07.2021
 Analysis Commencement Date: 06.07.2021
 Analysis Period Date: 04.06.2021
 Registration Date: 21.06.2021

Sample Name: --
 Sample Condition at Receipt: Ground Wt
 Sampling Location: Effluent Effluent
 Test Requested: As per the order

Sample Collected By: S. S. S.
 Sample Quantity Received: 1 L (50 ml x 20 bottles)

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
1*	Temperature	APHA 22 nd Edition 2200-B	°C	27	--
2	pH	APHA 22 nd Edition 4500-07-B	--	7.25	5.5-9.0
3	Total Dissolved Solids	APHA 22 nd Edition 2540-C	mg/l	1590	2100
4	Total Suspended Solids	APHA 22 nd Edition 2540-D	mg/l	68	100
5	Chemical Oxygen Demand	APHA 22 nd Edition 5210-B	mg/l	295	250
6	Biological Oxygen Demand (at 27 °C)	APHA 22 nd Edition 5210-B	mg/l	102	10
7	Oil & Grease	APHA 22 nd Edition 5120-B	mg/l	0.0	10
8*	Arsenic as As	APHA 22 nd Edition 3100-A-2	mg/l	<0.02	0.2
9*	Mercury as Hg	APHA 22 nd Edition 3100-Hg	mg/l	<0.001	0.01
10*	Total as Pb	APHA 22 nd Edition 3111-B	mg/l	0.01	1.0

Page 1 of 2

Sai Laboratories Pvt. Ltd.
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 Tel: 0672610101
 Email: sai@saialab.com | Website: www.saialab.com

TEST REPORT

Report Number: SLPL/2021/06/W22200

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
11*	Cadmium as Cd	APHA 22 nd Edition 3111-B	mg/l	<0.002	1.0
12*	Hexavalent Chromium as Cr6+	APHA 22 nd Edition 3100-Cr6+	mg/l	<0.01	2.0
13*	Total Chromium as Cr	APHA 22 nd Edition 3111-B	mg/l	<0.02	2.0
14*	Copper as Cu	APHA 22 nd Edition 3111-B	mg/l	0.01	1.0
15*	Zinc as Zn	APHA 22 nd Edition 3111-B	mg/l	0.01	15
16	Ammoniacal Nitrogen as N	APHA 22 nd Edition 4500-NH ₃ -N-C	mg/l	5.02	50
17*	Nitrate as NO ₃	APHA 22 nd Edition 3111-B	mg/l	<0.01	0.20
18	Cyanide as CN	APHA 22 nd Edition 4500-CN-C-E	mg/l	<0.01	3.0

Note: The above * signed parameters are not under MARR scope

Verified by: **D. Krishna Kumar**
 Technical Manager

Authorized Signatory:
Alum Satyanarayana
 Managing Director

End of report

Page 1 of 2

HTDS Effluent Report (Jun'2021)

Sai Laboratories Pvt. Ltd.
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 Plot No. 211, Datta Colony, Boppal, Dist. Bhopal, M.P. 462018
 Tel: 0672610101
 Email: sai@saialab.com | Website: www.saialab.com

TEST REPORT

Report Number: SLPL/2021/06/W22204

Name of the Client: M/s. Torvas Pharmaceuticals Ltd
 Plot No. 77, 224, Pharma City,
 Panchsahi Market, Phase V Stage,
 Vindhyacharya - 321 001

Report Date: 06.07.2021
 Analysis Commencement Date: 06.07.2021
 Analysis Period Date: 04.06.2021
 Registration Date: 21.06.2021

Sample Name: --
 Sample Condition at Receipt: Ground Wt
 Sampling Location: Effluent Effluent
 Test Requested: As per the order

Sample Collected By: S. S. S.
 Sample Quantity Received: 1 L (50 ml x 20 bottles)

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
1*	Temperature	APHA 22 nd Edition 2200-B	°C	26	--
2	pH	APHA 22 nd Edition 4500-07-B	--	7.25	5.5-9.0
3	Total Dissolved Solids	APHA 22 nd Edition 2540-C	mg/l	1590	2100
4	Total Suspended Solids	APHA 22 nd Edition 2540-D	mg/l	114	100
5	Chemical Oxygen Demand	APHA 22 nd Edition 5210-B	mg/l	2190	250
6	Biological Oxygen Demand (at 27 °C)	APHA 22 nd Edition 5210-B	mg/l	710	10
7	Oil & Grease	APHA 22 nd Edition 5120-B	mg/l	46	10
8*	Arsenic as As	APHA 22 nd Edition 3100-A-2	mg/l	<0.02	0.2
9*	Mercury as Hg	APHA 22 nd Edition 3100-Hg	mg/l	<0.001	0.01
10*	Total as Pb	APHA 22 nd Edition 3111-B	mg/l	1.79	1.0

Page 1 of 2

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 Tel: 0672610101
 Email: sai@saialab.com | Website: www.saialab.com

TEST REPORT

Report Number: SLPL/2021/06/W22204

S.No.	Parameter	Method	Units	Results	Standard Limits as per APFCB
11*	Cadmium as Cd	APHA 22 nd Edition 3111-B	mg/l	0.02	1.0
12*	Hexavalent Chromium as Cr6+	APHA 22 nd Edition 3100-Cr6+	mg/l	0.21	2.0
13*	Total Chromium as Cr	APHA 22 nd Edition 3111-B	mg/l	0.29	2.0
14*	Copper as Cu	APHA 22 nd Edition 3111-B	mg/l	0.97	1.0
15*	Zinc as Zn	APHA 22 nd Edition 3111-B	mg/l	0.02	15
16	Ammoniacal Nitrogen as N	APHA 22 nd Edition 4500-NH ₃ -N-C	mg/l	11.3	50
17*	Nitrate as NO ₃	APHA 22 nd Edition 3111-B	mg/l	0.12	0.20
18	Cyanide as CN	APHA 22 nd Edition 4500-CN-C-E	mg/l	<0.01	3.0

Note: The above * signed parameters are not under MARR scope

Verified by: **D. Krishna Kumar**
 Technical Manager

Authorized Signatory:
Alum Satyanarayana
 Managing Director

End of report

Page 2 of 2

LTDS Effluent Report (Dec'2021)

Sai Laboratories Pvt. Ltd.
Registered by: M&E, G.O., New Delhi
 Plot No. 21, Outer Ring Road, Thiruvananthapuram-695014
 Kerala - 695014
 Contact: 0471-2521001 | 0471-2521002 | Email: info@sai.in

TEST REPORT

Name of the Customer: **M/s. Sreevasth Pharmaceuticals Ltd**
 Plot No. 77, J.N. Pannas City,
 Ponnada Mandal, Thiruvananthapuram,
 Vayalambadi - 691 021

Report Number: **SLPL/2021/249/0052**
 Report Date: **07.12.2021**
 Analysis Completion Date: **07.12.2021**
 Analysis Starting Date: **26.12.2021**
 Registration Date: **26.12.2021**
 Date of receipt: **26.12.2021**

Sample Name: **---**
 Sample Condition at Receipt: **Filtered**
 Sampling location: **LTDS Effluent**
 Test Requirement: **As per permit**

Sample Particulars: **Water**
 Sample Collected By: **SLPL**
 Sample Quantity Received: **11.5 Lit. In plastic con.**

S.No.	Parameter	Method	Units	Results	Standard Limits as per APPEC
1	Temperature	APHA 21 st Edition 250 B	°C	26	-
2	pH	APHA 21 st Edition 450 (A) B	--	7.12	5.5-9.0
3	Total Dissolved Solids	APHA 21 st Edition 2540 C	mg/l	2015	2100
4	Total Suspended Solids	APHA 21 st Edition 2540 (A)	mg/l	75	100
5	Chemical Oxygen Demand	APHA 21 st Edition 5210 - B	mg/l	650	250
6	Biological Oxygen Demand (at 20 °C)	APHA 21 st Edition 5210 - B	mg/l	190	10
7	Oil & Grease	APHA 21 st Edition 5520 - B	mg/l	0.0	10
8	Ammonia as N	APHA 21 st Edition 4500 C, B	mg/l	<0.05	0.2
9	Mercury as Hg	APHA 21 st Edition 3100 Hg	mg/l	<0.001	0.01
10	Lead as Pb	APHA 21 st Edition 3111 B	mg/l	0.02	1.0

Page 1 of 2

Sai Laboratories Pvt. Ltd.
Registered by: M&E, G.O., New Delhi
 Plot No. 21, Outer Ring Road, Thiruvananthapuram-695014
 Kerala - 695014
 Contact: 0471-2521001 | 0471-2521002 | Email: info@sai.in

TEST REPORT

Report Number: **SLPL/2021/249/0052**

S.No.	Parameter	Method	Units	Results	Standard Limits as per APPEC
11	Cadmium as Cd	APHA 21 st Edition 3111 B	mg/l	<0.002	1.0
12	Hexavalent Chromium as Cr(VI)	APHA 21 st Edition 3111 B	mg/l	<0.01	2.0
13	Total Chromium as Cr	APHA 21 st Edition 3111 B	mg/l	<0.02	1.0
14	Copper as Cu	APHA 21 st Edition 3111 B	mg/l	0.41	1.0
15	Zinc as Zn	APHA 21 st Edition 3111 B	mg/l	0.22	15
16	Ammonical Nitrogen as N	APHA 21 st Edition 4500 C, B	mg/l	9.6	50
17	Nitrite as NO ₂	APHA 21 st Edition 3111 B	mg/l	<0.01	0.20
18	Chloride as Cl	APHA 21 st Edition 4500 C, B	mg/l	<0.01	1.0

Verified by: **D. Krishna Kalpana**
 Technical Manager

Authorized Signatory:
Alam Vatsanvarana
 Managing Director

Page 2 of 2

HTDS Effluent Report (Dec'2021)

Sai Laboratories Pvt. Ltd.
Registered by: M&E, G.O., New Delhi
 Plot No. 21, Outer Ring Road, Thiruvananthapuram-695014
 Kerala - 695014
 Contact: 0471-2521001 | 0471-2521002 | Email: info@sai.in

TEST REPORT

Name of the Customer: **M/s. Sreevasth Pharmaceuticals Ltd**
 Plot No. 77, J.N. Pannas City,
 Ponnada Mandal, Thiruvananthapuram,
 Vayalambadi - 691 021

Report Number: **SLPL/2021/249/0053**
 Report Date: **07.12.2021**
 Analysis Completion Date: **07.12.2021**
 Analysis Starting Date: **26.12.2021**
 Registration Date: **26.12.2021**
 Date of receipt: **26.12.2021**

Sample Name: **---**
 Sample Condition at Receipt: **Filtered**
 Sampling location: **HTDS Effluent**
 Test Requirement: **As per permit**

Sample Particulars: **Water**
 Sample Collected By: **SLPL**
 Sample Quantity Received: **11.5 Lit. In plastic con.**

S.No.	Parameter	Method	Units	Results	Standard Limits as per APPEC
1	Temperature	APHA 21 st Edition 250 B	°C	26	-
2	pH	APHA 21 st Edition 450 (A) B	--	7.12	5.5-9.0
3	Total Dissolved Solids	APHA 21 st Edition 2540 C	mg/l	4500	2100
4	Total Suspended Solids	APHA 21 st Edition 2540 D	mg/l	125	100
5	Chemical Oxygen Demand	APHA 21 st Edition 5210 - B	mg/l	3500	250
6	Biological Oxygen Demand (at 20 °C)	APHA 21 st Edition 5210 - B	mg/l	120	10
7	Oil & Grease	APHA 21 st Edition 5520 - B	mg/l	52	10
8	Ammonia as N	APHA 21 st Edition 4500 C, B	mg/l	<0.05	0.2
9	Mercury as Hg	APHA 21 st Edition 3100 Hg	mg/l	<0.001	0.01
10	Lead as Pb	APHA 21 st Edition 3111 B	mg/l	1.97	1.0

Page 1 of 2

Sai Laboratories Pvt. Ltd.
Registered by: M&E, G.O., New Delhi
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 Kerala - 695014
 Contact: 0471-2521001 | 0471-2521002 | Email: info@sai.in

TEST REPORT

Report Number: **SLPL/2021/249/0053**

S.No.	Parameter	Method	Units	Results	Standard Limits as per APPEC
11	Cadmium as Cd	APHA 21 st Edition 3111 B	mg/l	0.58	1.0
12	Hexavalent Chromium as Cr(VI)	APHA 21 st Edition 3111 B	mg/l	0.35	2.0
13	Total Chromium as Cr	APHA 21 st Edition 3111 B	mg/l	0.49	2.0
14	Copper as Cu	APHA 21 st Edition 3111 B	mg/l	0.80	1.0
15	Zinc as Zn	APHA 21 st Edition 3111 B	mg/l	0.85	15
16	Ammonical Nitrogen as N	APHA 21 st Edition 4500 C, B	mg/l	14.2	50
17	Nitrite as NO ₂	APHA 21 st Edition 3111 B	mg/l	0.11	0.20
18	Chloride as Cl	APHA 21 st Edition 4500 C, B	mg/l	<0.01	1.0

Verified by: **D. Krishna Kalpana**
 Technical Manager

Authorized Signatory:
Alam Vatsanvarana
 Managing Director

Page 2 of 2

ANNEXURE-III

AMBIENT AIR QUALITY

Location	Parameter	Limit	Min	Max	Avg.
Near Security	PM 2.5	60 µg/m ³	24.1	29.7	26.5917
	PM 10	100 µg/m ³	63.4	68.5	66.1083
	SO ₂	80 µg/m ³	13.6	19.3	16.1083
	NO _X	80 µg/m ³	15.2	24.6	19.0083
Near E-Block	PM 2.5	60 µg/m ³	22.4	28.8	25.0667
	PM 10	100 µg/m ³	55.3	60.4	58.4333
	SO ₂	80 µg/m ³	14.9	19.2	17.1917
	NO _X	80 µg/m ³	17.4	23.1	21.1333
Near Boiler	PM 2.5	60 µg/m ³	25.3	28.5	26.9333
	PM 10	100 µg/m ³	60.1	68.3	64.3417
	SO ₂	80 µg/m ³	16.3	21.3	18.775
	NO _X	80 µg/m ³	19.1	25.6	23.0583

AMBIENT NOISE LEVELS

Near Security Gate (Day time)	Noise Level	75dBA	57.9	66.4	62.0
Near D.G Room (Day time)		75dBA	56.9	69.1	65.7
Near Utility (Day time)		75dBA	62.2	70.5	68.2
Near Security Gate (Night time)		70dBA	52.2	59.1	55.3
Near D.G Room (Night time)		70dBA	53.8	65.5	59.1
Near Utility (Night time)		70dBA	60.4	68.1	65.8

PROCESS EMISSION

Location	Parameter	Limit	Min	Max	Avg.
SCB/A01	Acid Mist	35 PPM	18.1	19.6	19
SCB/C01		35 PPM	17.6	21.4	19.675
SCB/D01		35 PPM	18.3	21.2	19.875
SCB/D02		35 PPM	17.8	21.5	19.8
SCB/E01		35 PPM	20.6	21.7	21.05
SCB/WH01		35 PPM	19.1	20.7	19.95
SCB/WH03		35 PPM	17.1	19.6	18.45
SCB/ETP01		35 PPM	19.2	20.3	19.725
SCB/R&D01		35 PPM	18.1	19.7	18.975

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
	NO _X	-	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
	NO _X	-	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
	NO _X	-	1.49	1.53	1.51