Sai Make it better together

09th April 2025

To,
The Karnataka State Pollution Control Board,
Plot No. 42(B -2),
Naubad Industrial Area,
BIDAR – 585 402.

Sub: Submission of Environmental statement in FORM-V for the FY 2024-2025,M/s Sai Life Sciences Limited., Unit-IV, plot No.79A,79B, 80A, 80B, 81A,82&130A,Kolhar industrial area, Bidar Taluk and District-585403,Karnataka State.

Ref-1: Consent for operation (CFO-Air & Water) No: AW-332061.

Respected Sir,

With reference to the above subject, we are here by submitting the Environmental statement in FORM-V for the FY 2024-2025.Please find the enclosed annexures in hard copy with respect to the above cited subject.

Enclosed copy:

FORM – V

Kindly acknowledge for the same.

Thanking you.

Yours faithfully,
For Sai Life Sciences Limited

SAI LIFE SCIENCES BIDAR UNIT-IV

Authorized Signatory

Cc To: The Member secretary, KSPCB, Parisara bhavan, Church street Bangalore- 560001

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ದಿನಾಂಕ 29/4/25

ENVIRONMENTAL STATEMENT
FY 2024-2025

SAI LIFE SCIENCES LIMITED.,

Plot Nos. 79A, 79B, 80A, 80B, 81A, 82 & 130A,

Kolhar Industrial Area,

Bidar Taluk & District

Karnataka – 585403.

ENVIRONMENTAL STATEMENT

FORM-V for the FY 2024-2025

PART-A

I.	Name and address of the owner/occupier of the industry, Operation or process.	Sai Life Sciences Limited., Plot Nos. 79A, 79B, 80A, 80B, 81A, 82 & 130A, Kolhar Industrial Area, Bidar Taluk & District Karnataka – 585403.
II.	Industry category Primary-(STC Code) Secondary- (STC Code)	Red category
III.	Production category -Units	FY 2024-2025, Production details are attached as Annexure-I
IV.	Year of establishment	1999
V.	Date of the last environmental statement submitted	27-Sep-2024

PART-B

I. Water and Raw Material Consumption:

Sl.No	Area of use		Consented(KLD)	Actual used(KLD)
A.	Domestic	Source 1.Bore well 2.KIADB	45.00	20.5
B.	(a).Process (B).Scrubbers		100.00	87.1
C.	QC Laboratory		10	1.3
D.	Gardening		35.00	3.5
E.	Boiler Feed & RO Plant		180.00	113.6
F.	Cooling Tower*		170.00	145.7
	Total		**540.00**	**371.7**

- The cooling towers water consumption including ZLDS (Recycled) treated water.
- The development of the green belt uses 24.0 KLD of water, of which 3.5 KLD is fresh water and 20.5 KLD is domestic treated water.

Name of Products	Process water consumption per unit of products	
	During the previous financial year FY 2023-2024	During the current financial year FY 2024-2025
Production details are attached as Annexure-I	292 Kl water consumed for 1 ton of product	231.1 Kl water consumed for 1 ton of product

II. Raw material consumption

Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year FY 2023-2024	During the current financial year FY 2024-2025
The raw material list is attached as annexure-II	Production details are as Annexure-I	164.05 MT Raw material consumed for 1 ton of product	146.05 MT Raw material consumed for 1 ton of product

PART-C

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

Pollutants	Quantity of Pollutants Discharged (Kl/day)	Concentration of Pollutants Discharged. (Mg/Ltr.)	Percentage of Variation from Prescribed standards with reasons.(As per CFO)
(A).Waste water	RO-Permeate (Treated water) Average -111.4 Kl/day	The effluent handling through zero liquid discharge system has helped us in recovering treated water is being used in cooling tower as Make up water. Treated water quality parameters report is attached as annexure-3.	No Deviation. Values are within the prescribed standard. Refer to Annexure-3
(b).Air Stack emission monitoring & Ambient air quality monitoring	The Stack emission and ambient air quality monitoring reports data attached as annexure-4		Stack emission and Ambient air quality parameters are well within the prescribed limits stipulated by concerned regulatory authorities. Refer to annexure -4

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling Rules, 2016).

Hazardous Wsate	Category No	UOM	Authorized quantity per annum	**Total quantity of generated (MT/A)**	
				During the previous financial year FY 2023-2024	During the current financial year FY 2024-2025
Process residue & Wastes	28.1	MT	279.74	118.377	109.626
Spent carbon or filter medium	36.2	MT	165.00	30.711	37.627
Spent catalyst	28.2	MT	5.26	5.100	2.235
Contaminated aromatic, aliphatic or napthenic solvents may or may not be fit for reuse(MEE Stripper Solvent)	20.1	MT	3500.00	1086.814	1201.702
Spent carbon	28.3	MT	16.3	15.085	15.560
Off specification products	28.4	MT	8.0	6.710	5.750
Spent Solvent	28.6	MT	7000	5551.377	6841.185
Empty barrels / Containers /contaminated with hazardous chemical wastes	33.1	No's	60000	50.921	53.320
		MT	600		
Liners contaminated with hazardous chemical wastes	33.1	MT	10	3.856	2.890
Chemical Sludge from Waste Water Treatment (ATFD salt)	35.3	MT	1400	478.851	584.569

Chemical Sludge from Waste Water Treatment (ETP sludge)	35.3	MT	350	156.294	235.827
Any process or Distillation Residue	36.1	MT	70	5.141	9.99
Used oil	5.1	MT	37.2	4.22	14.02

PART – E
SOLID WASTES

Solid waste	Types of waste	MOU	During the previous financial year FY 2023-2024	During the current financial year FY 2024-2025
(a). From Process	MS Scarp	MT/A	107.409	290.89
	SS Scarp	MT/A	20.425	17.6
	GI Scrap	MT/A	8.740	32.162
	MS Drums(Used)	No's/A	6997	5257
(b) From Pollution Control facility	Boiler ash / Fly ash	MT/A	1560	1797.25
(c).Quantity recycled or re-utilized within the unit	Food & Garden waste	MT/A	6.2	3.686

PART – F

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

1. **Hazardous waste disposal practice:**

- The hazardous waste generated at site are collected, labelled, segregated and stored in dedicated storage area with hard s flooring.
- The hazardous waste from process in the form of Process residue wastes, contaminated silica gel and spent carbon from process of production are packed in HDPE leak proof bags.
- The hazardous waste from process in the form of off specification products, Spent Catalyst are proof HDPE bags/ carboys.
- Chemical Sludge (MEE salt / ETP sludge) from ZLD treatment plant are packed in LDPE leak proof bags.
- The hazardous wastes from process in the form of used oil, any process or Distillation Residue, Spent Solvent and contaminated aromatic, aliphatic or naphthenic solvents may or may not be fit for reuse solvents are storage in MS Drums / MS containers.

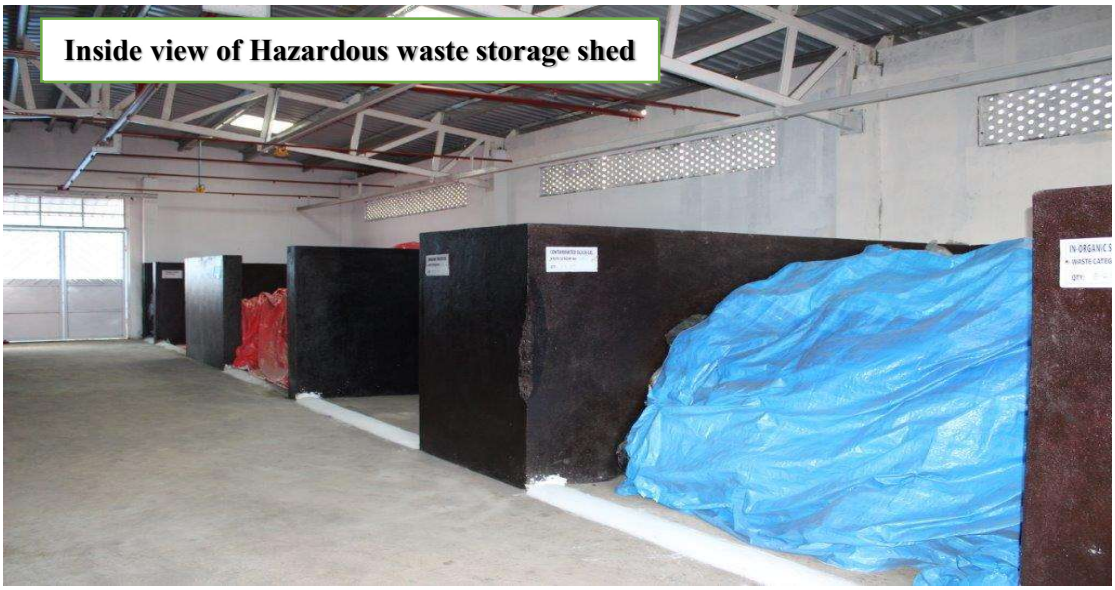
- The other waste such as empty HDPE containers /Liners are detoxified in house and sent to recyclers.
- This is being disposed to pollution control board approved Co-Processing / Pre-processing / Authorised Recycler facilities through authorized hazardous waste transporter.
- Hazardous wastes characteristics reports are enclosed **(Refer to annexure-6)**

The photograph of the same is attached here with for your reference.

Outside view of Hazardous waste storage shed

Display boards

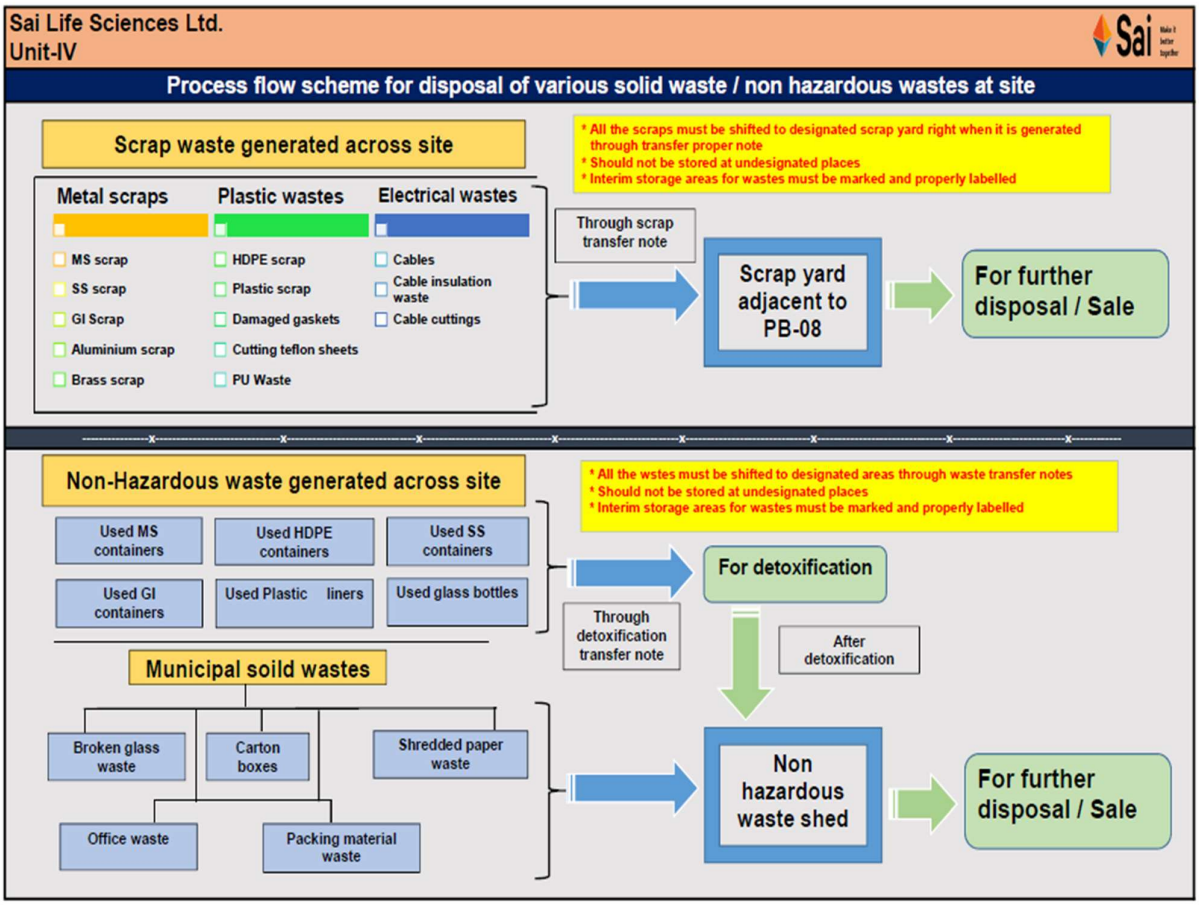
Inside view of Hazardous waste storage shed



2. Solid waste disposal practice (Non-hazardous waste) :

- The Solid wastes generated from facilities in the form of MS Scarp, SS Scarp. GI Scarp, MS drums, GI drums and paper waste are stored in dedicated area and sent to recyclers.
- The Solid wastes from boiler plant in the form of coal ash / fly ash sent to bricks manufacturing industry.
- The Solid wastes from canteen waste and garden waste is converted in to organic compost.

Non-hazardous waste storage shed



Organic Waste digester

- Installed of Organic Waste digester (200 kgs/day) to decompose the food waste from canteen and dry leaves from plant premises.
- Composting is a typical digestion process, which converts organic matter into compost.
- Organic waste digester system has helped us in recovering organic compost.
- The composting enhance Gardens ability to grow healthy plant

The photograph of the same is attached here with for your reference

PART-G

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

A. Water pollution / Land pollution control measures:

- The entire operational areas (Production blocks & ETP area) and hazard chemical storage tank areas provided with hard flooring and acid resistance impervious linings.
- The Effluent storage tanks and Chemical storage tanks are located above ground and the integrity of these tanks are checked at regular intervals

The photograph of the same is attached here with for your reference.

Above ground level effluent tank

Above ground level effluent tank

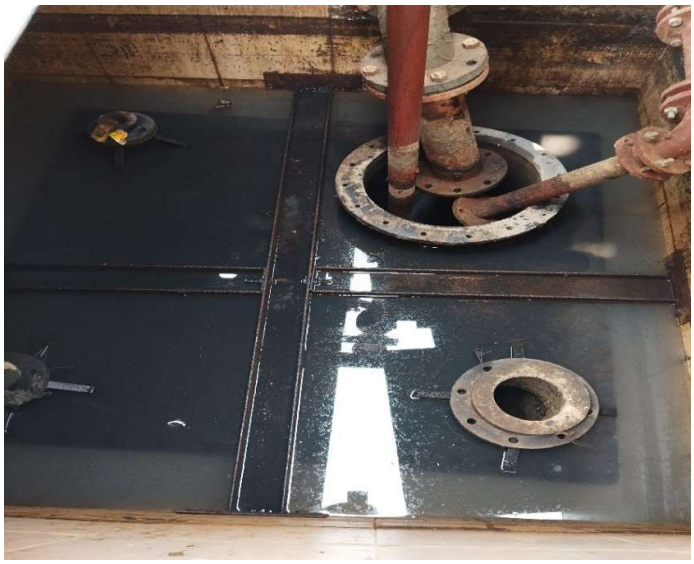
Impervious lining for Effluent tanks

Impervious lining) for operational areas

Chemicals storage tanks (Above the ground) & Secondary containment

Effluent storage tank (Above the ground) & Secondary containment

- ❖ All the chemical storage tank and Effluent collection tanks provided with adequate secondary containment to prevent any spills leaking into the environment.
- ❖ Tank in tank system was provided for production block wash area effluent collection. The photograph of the same is attached here with for your reference.



❖ We have systematic method for collection and treatment of all types of effluent. Our facility is equipped with Zero Liquid Discharge (ZLDS) .The ZLDS facility includes following components:

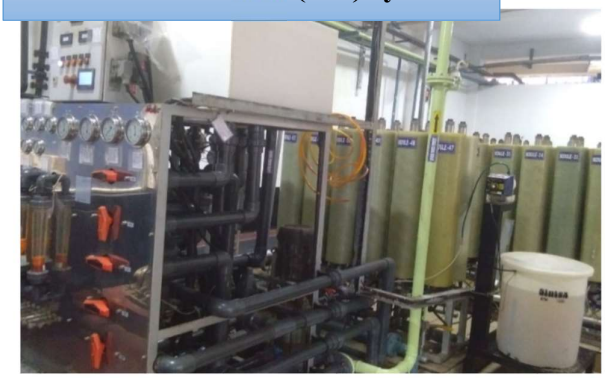
a. Stripper
b. Multiple Effect Evaporator (MEE)
c. Agitated Thin Film Dryer (ATFD)
d. Primary & biological treatment
e. Reverse Osmosis (RO) system
f. Reject recycled RO plant (RRRO)
g. Sewage treatment plant (STP)

The photograph of the same is attached here with for your reference.

Multiple effect evaporation plant

Biological treatment plant

Reverse Osmosis (RO) system



Sewage treatment plant (STP)

RRRO Plant

- The effluent handling through zero liquid discharge system has helped us in recovering treated water is being used in cooling tower as make up water. This recycling of treated effluent has helped us achieving water conservation.
- RO rejects again re treating in RO reject recycle plant capacity-50 KLD. Hence RO reject generation come down to 50% in total generation.
- The hazardous waste generated at site are collected, labelled, segregated and stored in dedicated storage area with hard impervious flooring.
- The hazardous waste generated from the process is sent for processing to cement industries wherein it is used as an alternate fuel. The other waste such as empty containers are detoxified in house and sent to recyclers.
- The Pollution abatement practices adopted by us save natural resources. Ultimately reducing the manufacturing cost.
- The Sewage effluent collected from various blocks/areas pumped into STP Plant for treatment purpose, recovering treated sewage water is being used in gardening purpose.

B. Air pollution control measures:

- We have used the combination of robust engineering and technology for minimizing the pollution and protection of environment. All our facilities and equipment's at site are equipped with pollution control devices
- Our production blocks, dispensing area, acid storage tanks are equipped with multistage scrubbers which scrubs the acidic/alkaline emissions from reaching the atmosphere.
- The photograph of same is attached herewith for your reference.

- Specific operation and maintenance procedures are available and are undertaken regularly to ensure that scrubbers are functioning as per the requirement. The emission monitoring of scrubbers is conducted to ensure that emissions are within the prescribed limit and is submitted to board on monthly basis.
- All our critical manufacturing operations are carried out through closed systems and the reactors, vacuum systems also are equipped with primary and secondary condensers with RT water and +5ºC chilled water utility to prevent emission of VOCs. The photograph of the same is attached here with for your reference.

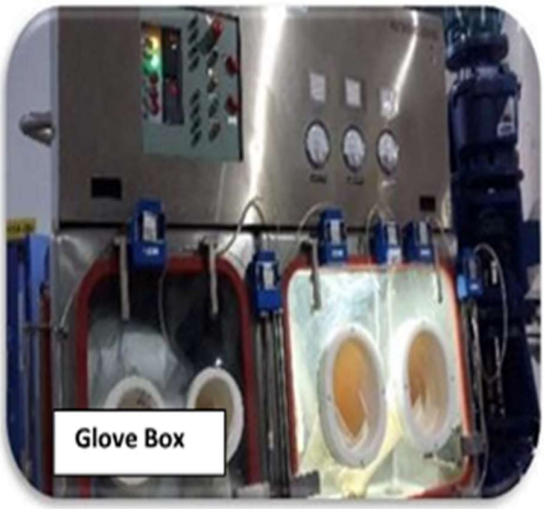

Double Condensers


Vacuum Condensers

- We have installed state of the art containment systems to contain the pollutant concentrations (ambient air concentration) up to a level of ~1 micro g/ cum. We have installed Powder Transfer System (PTS), Iso-charge, Glove Boxes, Drum containment system (DCS) and Dispensing isolator. These advanced containment systems protect the employee as well as environment by limiting the concentration of pollutants in ambient air around 1 to 10 micro g/cum. The photographs of the containment systems are attached herewith for your reference.


Drum Containment system


Iso charge

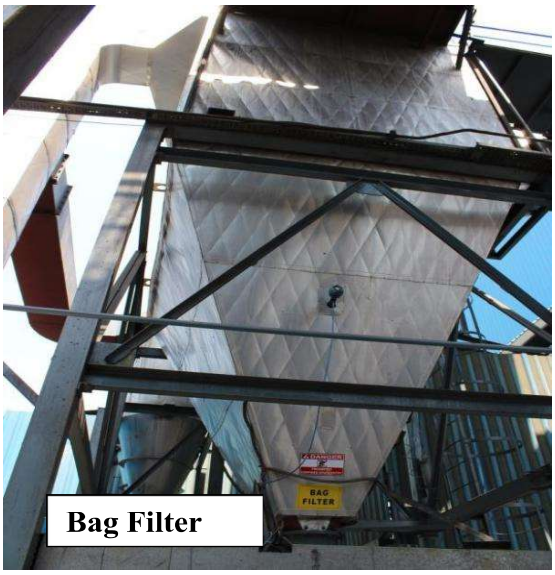


Pollution control equipment at Solvent storage tank:

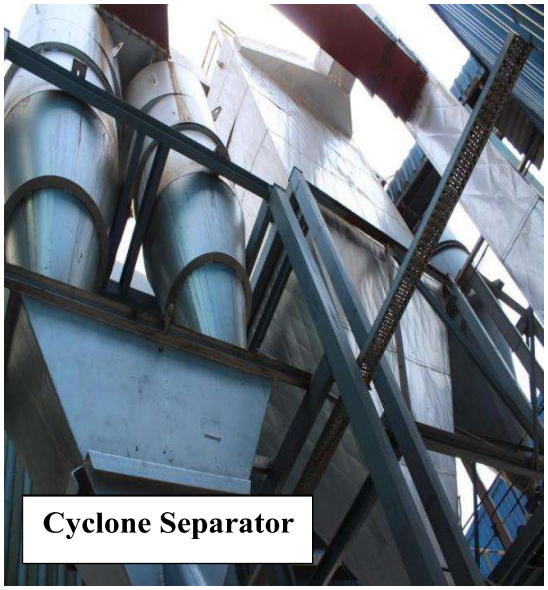
- We have installed vent condenser for storage tank, which stores low boiling solvent to minimize vaporization loses during storage. We have a 'Photo Ionization Detector' (PID) meter in site and we Conduct VOC monitoring regularly to identify possible emission,
- The reports of VOC monitoring are also being submitted to board on monthly basis. Gasses detection systems are installed in raw material stores.

Pollution control equipment at coal handling & Boiler:

Our boiler works on fluidized bed technology for effective combustion and has pulsating fiber glass bag filters for efficient emission control. The emission parameters are regularly monitored through a board approved third party laboratory and the reports are also submitted to board on monthly basis. **The photograph of Bag filter is attached herewith for your reference**

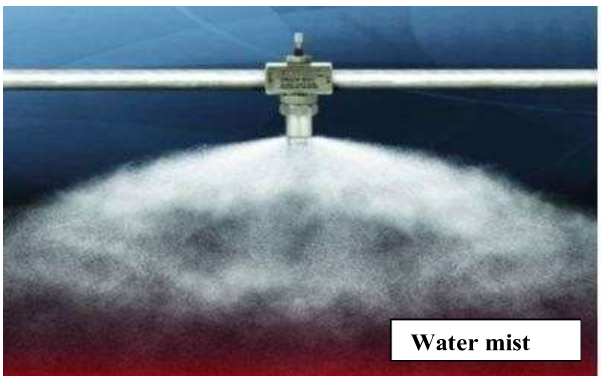


Bag Filter

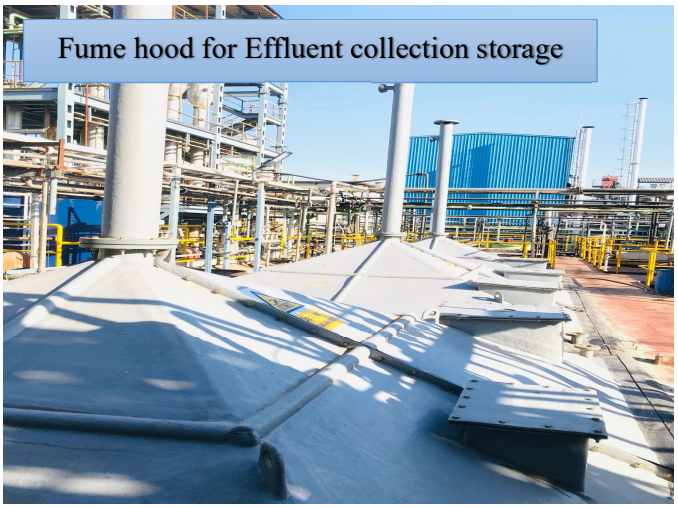

Cyclone Separator

- Our coal storage shed area is closed yard equipped with water-based dust suppression system which suppresses any form of dust generation during unloading of coal from truck as well as during loading of coal to boiler. The coal is transferred to boiler using closed conveyor belt.

The photograph of the coal shed, and dust suppression system is attached herewith for your reference



Provided of fume hood at ETP- HTDS effluent collection tank
We have three fume hoods are installed at ETP- HTDS effluent collection tanks, namely high TDS collection tank - I (HTDS-I), high TDS collection tank - II (HTDS-II) & pre-treated high TDS storage tank (MEE Feed Tank) to prevent emission of VOCs.
The photograph of Fume hood is attached herewith for your reference



C. Sound Pollution control measures:

- ❖ All DG sets are provided with acoustic enclosures.
- ❖ Used proper lubrication to avoid excessive noise generation.
- ❖ Preventive maintenance is extended to all equipment including pollution control equipment the same is performed by qualified team of maintenance.

Sound level monitoring reports are enclosed **(Refer to annexure-5)**

PART – H

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

Water conservation facilities

a. Provided PCAs taps or PCAs with sensor taps to all rest rooms for minimize the fresh water.
b. Provided Spray guns to all wash area to conserve water.
c. Provided spray ball to Reactor for cleaning
d. Hydro jet machine use for reactor cleaning.
e. All cooling towers provided to float valves for control of overflow.
f. Overhead tanks provided to level sensors and pneumatic valves for control water overflow.
g. Half-yearly EHS internal audit of all the sections through the plant premises.

Environment management programs for the FY 2024-2025		
Sl.No	**Description**	**Spent Amount (Rs.)**
1	Elimination of underground effluent collection tanks facilities in PB-01,PB-02,PB-05 and PB-06	4000000
2	Digitalization of water consumption monitoring through IOT device	350000
3	Construction of secondary containment inside the production blocks	300000
4	Installing the treated sewage water pipeline from STP to 6-acre greenbelt area	1800000
5	Development of green belt in entire site	100000
6	Increased the efficiency of the MEE plant	1000000
7	Installation of piezometer for ground water level identification	200000
8	Installation of pressure Jet Water guns in production blocks to reduce water consumption.	20000
9	Two stacks of thermodynamic fluid heaters were replaced.	1500000
10	Hhandrails have been changed part of facility improvements in ZLDs area	200000
11	Installation of Aeration tank-1 Part-B chamber	3,50,000
12	Servicing of Decanter-1 for better performance	8,00,000
	Total Spent Amount for the FY: 2024-2025	**1,06,20,000**

h. Green belt :

Developed the greenbelt in & around the plant and social forestry. A total of 6118 trees have been planted.

Below mentioned, 40 different tree species have been planted.

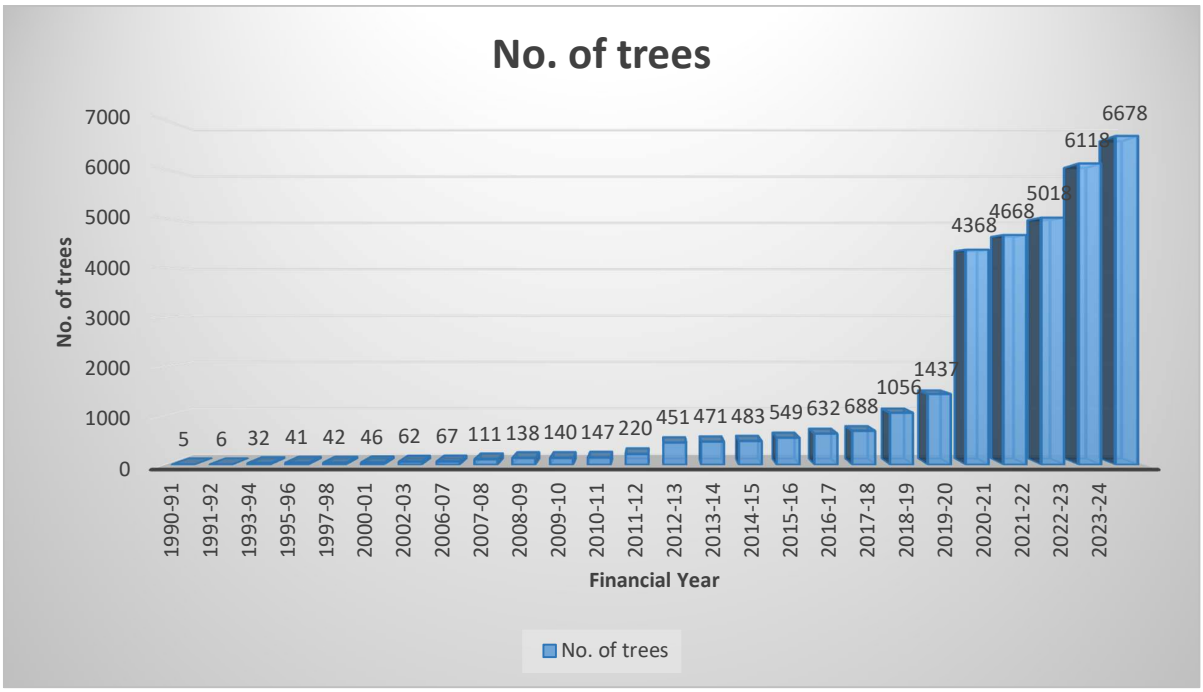
Tree species in Unit-IV			
S.No	**English Name**	**Botanical Name**	**No of tree**
1	Areca palm	Dypsis lutescens	62
2	Ashoka	Saraca asoca	28
3	Avocado	Persea americana	1
4	Badam Tree	Terminalia Catappa	350
5	Banyan	Ficus benghalensis	1
6	Black plum	Syzygium cumini	26
7	Bougainvillea glabra	Bougainvillea	170
8	Cashew	Anacardium occidentale	363
9	Coconut	Cocos nucifera	1
10	Conocarpous	Conocarpous	318
11	Custard apple	Annona reticulata	25
12	Dracaena	Dracaena reflexa	23
13	Drumstic	Moringaceae	1
14	Eucalyptus citriodora	Corymbia citriodora	20
15	Ficus religiosa	Peepal tree	326
16	Flowering plants	NA	4
17	Forest trees	Forest trees	31
18	Guava	Psidium guajava	99
19	Gmelina asiatica	Gmelina parvifolia.	150
20	Honduran mahogany	Swietenia macrophylla	200
21	Jackfruit	Artocarpus heterophyllus	10
22	Jasmine	Jasminum	2
23	malabar neem	Melia dubia	65
24	Mango	Mangifera indica	439
25	Manila plam	Adonidia merrillii	28
26	Mini plam	Phoenix robelinii	16
27	Muntingia	Muntingia calabura	6
28	Neem	Azadirachta indica	731
29	Platanus	Sycamore	3
30	Pongame	Millettia pinnata	2359
31	Red Ixora	Ixora coccinea	1
32	Sapota	Pouteria sapota	15
33	Silver oak	Grevillea robusta	31
34	Subabul	Leucaena leucocephala	437
35	Sandalwood	Santalum album	50
36	Tamarind tree	Tamarindus indica	156

37	Teak	Tectona grandis	60
38	Temple tree	Plumeria Rubra	7
39	Trachycarpus fortunei	Windmill palm	3
40	Weeping fig	Ficus benjamina	60
Total trees			**6678**

Number of trees planted: 6678 No's
Survival of trees: 6378 No's
Rate of survival - 95.5 %

We have taken steps to improve our green belt area by earmarking additional lands for plantation and green cover. The green belt covered up to 42% of total area.

The graphical representation of plantation details is given below




Latitude: 17.907528
Longitude: 77.463903
Elevation: 678.83±25 m
Accuracy: 22.5 m
Time: 17-04-2024 13:28
Note: Sai Life Science Bidar

PART – I
MISCELLANEOUS:

- Storm water shall not be allowed to mix with effluent and floor washing.
- As a part of commitment to improve the work environment, we have developed green belts inside the facility premises and at adjacent areas.
- To create awareness we celebrated world Environment day and also we initiated plantation program on World Environmental day.
- We have conducted LDAR test through SMS labs service PVT, Ltd on June-2024. LDAR test report was submitted to department on 30-July-2024.
- The soil quality is monitored by NABL/MOEF approved laboratories and reports are being submitted to Regional office twice in year. Soil quality report is enclosed. **Refer to annexure-7**.
-

Piezowell

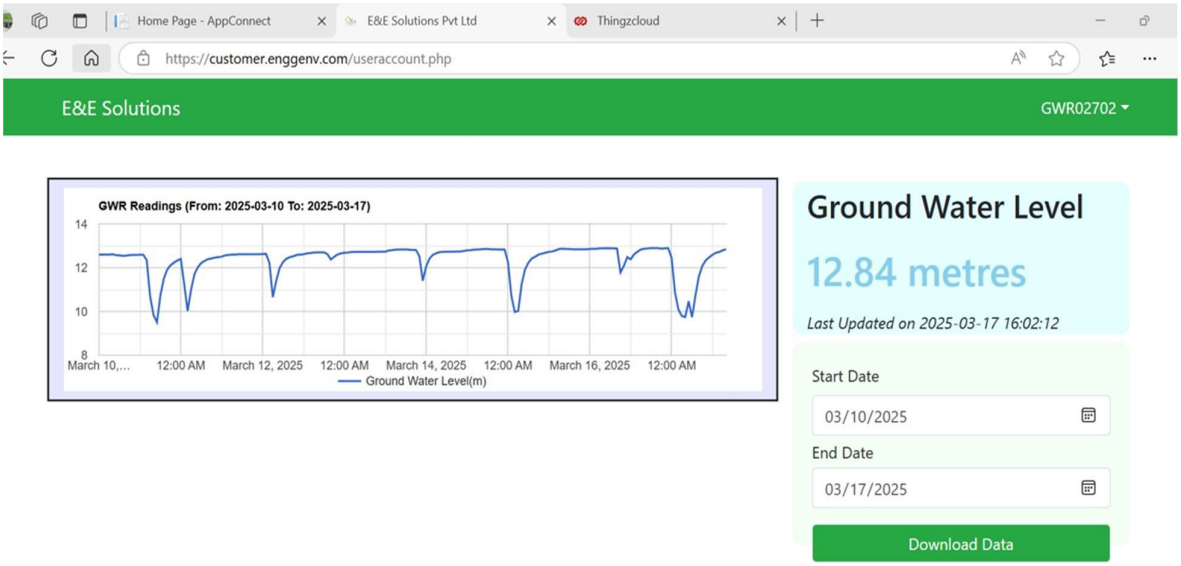
- 2 no's Piezowell installed within the plant premises for quality & level monitoring of ground water.
- The ground water quality is monitored by NABL/MOEF approved laboratories and reports are being submitted to Regional office twice in year.
- We have provided the GWL sensor (Ground water level sensor) in both piezo wells for ground water level monitoring through a telemetry system, this data is being uploaded to our computer system.
- The photograph of the same is attached here with for your reference

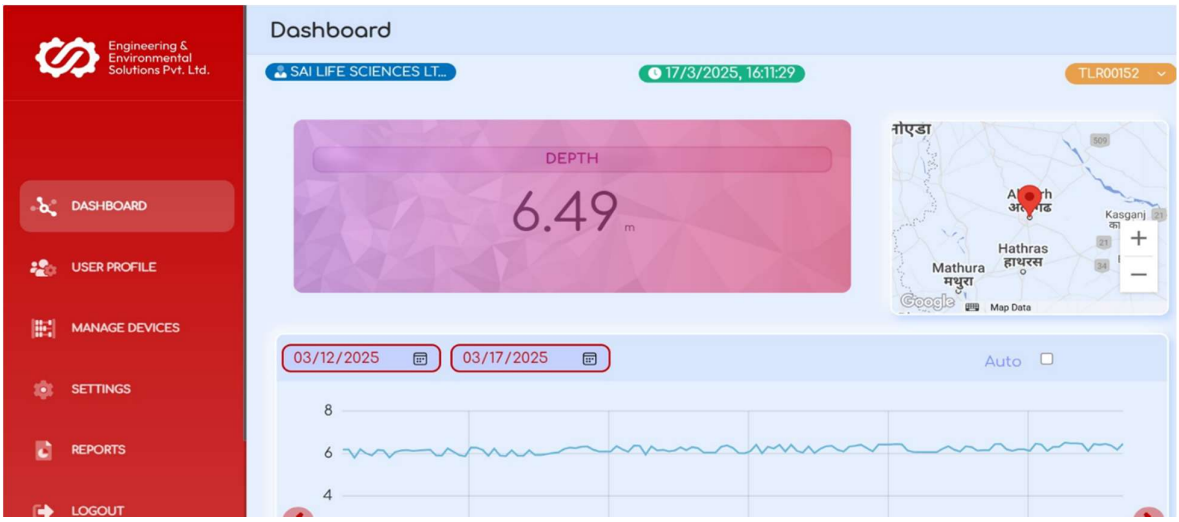
Piezo well quality report is enclosed **Refer to annexure-8.**

Piezowell-1

Piezowell-2


Crystal


Home Page - AppConnect
E&E Solutions Pvt Ltd
Thingzcloud
https://customer.enggenv.com/useraccount.php
E&E Solutions
GWR02702
GWR Readings (From: 2025-03-10 To: 2025-03-17)
14
12
10
8
March 10,...
12:00 AM
March 12, 2025
12:00 AM
March 14, 2025
12:00 AM
March 16, 2025
12:00 AM
Ground Water Level(m)
Ground Water Level
12.84 metres
Last Updated on 2025-03-17 16:02:12
Start Date
03/10/2025
End Date
03/17/2025
Download Data


Engineering & Environmental Solutions Pvt. Ltd.
DASHBOARD
USER PROFILE
MANAGE DEVICES
SETTINGS
REPORTS
LOGOUT
Dashboard
SAI LIFE SCIENCES LT...
17/3/2025, 16:11:29
TLR00152
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4

Environment Management System Improvement

- Half-Yearly SHE inspection of all the sections through the plant premises.
- Awareness promotion through various environmental training, environmental competitions, presentations etc. on World Environment Day etc.

Environment management programmes taken for the FY 2024-2025

Environment management programs for the FY 2024-2025		
Sl.No	**Description**	**Spent Amount (Rs.)**
1	Elimination of underground effluent collection tanks facilities in PB-01,PB-02,PB-05 and PB-06	4000000
2	Digitalization of water consumption monitoring through IOT device	350000
3	Construction of secondary containment inside the production blocks	300000
4	Installing the treated sewage water pipeline from STP to 6-acre greenbelt area	1800000
5	Development of green belt in entire site	100000
6	Increased the efficiency of the MEE plant	1000000
7	Installation of piezometer for ground water level identification	200000
8	Installation of pressure Jet Water guns in production blocks to reduce water consumption.	20000
9	Two stacks of thermodynamic fluid heaters were replaced.	1500000
10	Hhandrails have been changed part of facility improvements in ZLDs area	200000
11	Installation of Aeration tank-1 Part-B chamber	3,50,000
12	Servicing of Decanter-1 for better performance	8,00,000
	Total Spent Amount for the FY: 2024-2025	**1,06,20,000**

OCEMS system

- We have provided online continuous monitoring (OCEMS) for treated effluent and stack emission. This real time data connected to KSPCB and CPCB server.
- Our OCEMS related flow meter and SPM, Sox and NOx sensors calibrated by recognized laboratories. Calibration reports **attached as reference no-9**

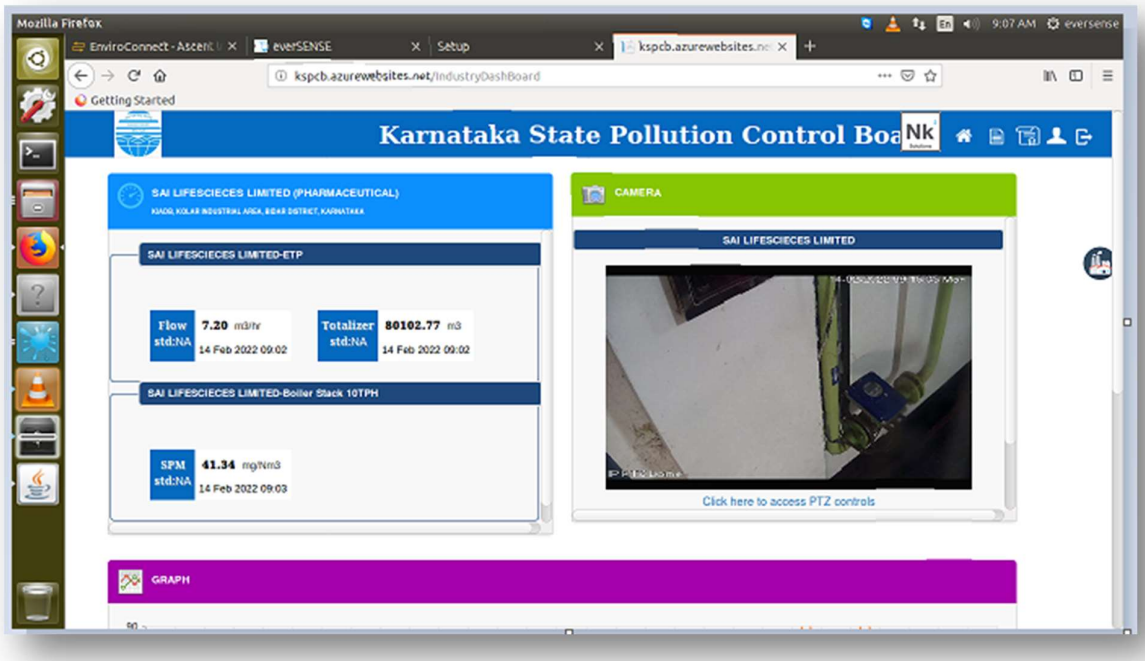
The photographs of the same is attached here with for your reference.

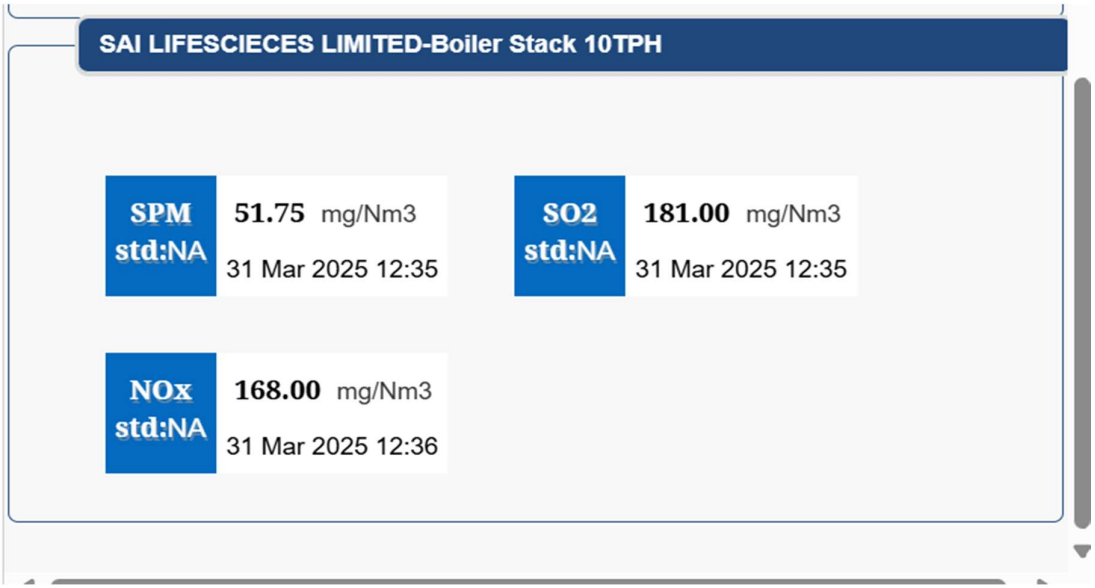
Sensors installation at chimney

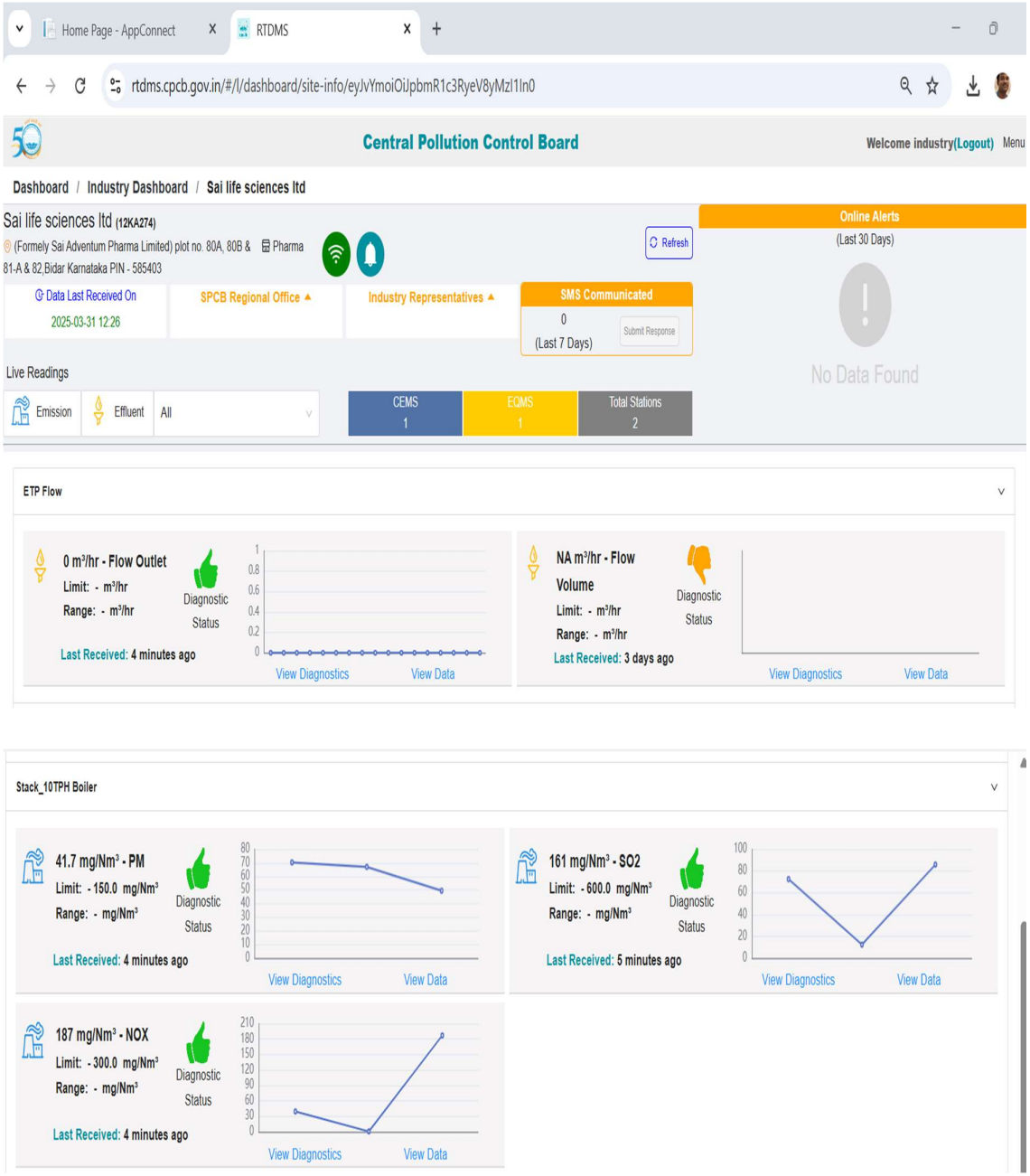
Digital display

Flow meter and camera installation at ZLDS RO-Permeate outlet

Web portal screenshot for CPCB and KSPCB live data streaming



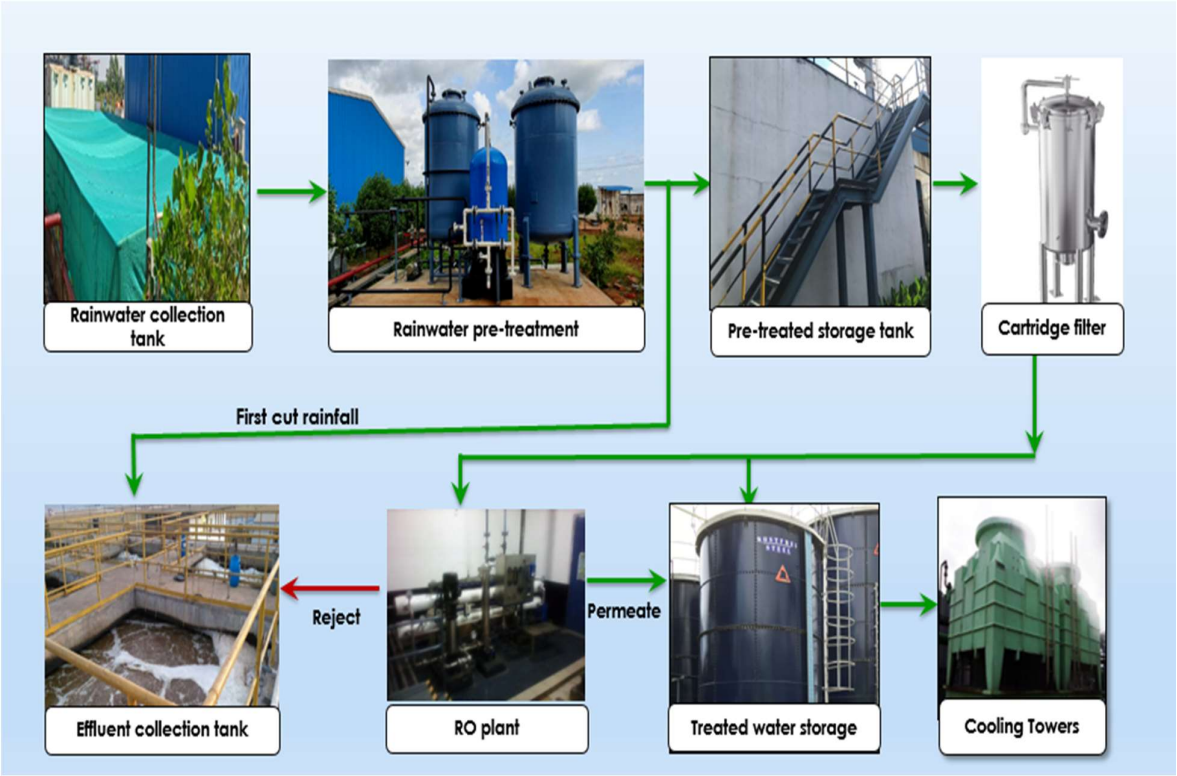



Home Page - AppConnect
RTDMS
rtdms.cpcb.gov.in/#/l/dashboard/site-info/eyJvYmoiOiJpbmR1c3RyeV8yMzI1In0
Central Pollution Control Board
Welcome industry(Logout) Menu
Dashboard / Industry Dashboard / Sai life sciences ltd
Sai life sciences ltd (12KA274)
(Formely Sai Adventum Pharma Limited) plot no. 80A, 80B & 81-A & 82,Bidar Karnataka PIN - 585403
Pharma
Refresh
Online Alerts
(Last 30 Days)
No Data Found
Data Last Received On
2025-03-31 12:26
SPCB Regional Office
Industry Representatives
SMS Communicated
0
(Last 7 Days)
Submit Response
Live Readings
Emission
Effluent
All
CEMS
1
EQMS
1
Total Stations
2
ETP Flow
0 m³/hr - Flow Outlet
Limit: - m³/hr
Range: - m³/hr
Diagnostic Status
Last Received: 4 minutes ago
View Diagnostics
View Data
NA m³/hr - Flow Volume
Limit: - m³/hr
Range: - m³/hr
Diagnostic Status
Last Received: 3 days ago
View Diagnostics
View Data
Stack_10TPH Boiler
41.7 mg/Nm³ - PM
Limit: - 150.0 mg/Nm³
Range: - mg/Nm³
Diagnostic Status
Last Received: 4 minutes ago
View Diagnostics
View Data
161 mg/Nm³ - SO2
Limit: - 600.0 mg/Nm³
Range: - mg/Nm³
Diagnostic Status
Last Received: 5 minutes ago
View Diagnostics
View Data
187 mg/Nm³ - NOX
Limit: - 300.0 mg/Nm³
Range: - mg/Nm³
Diagnostic Status
Last Received: 4 minutes ago
View Diagnostics
View Data

Strom water Management:

- Storm water shall not be allowed to mix with effluent and floor washing.
- Spill kits are provided across all the plants. Dyke walls /curb walls are provided wherever required towards secondary containment.
- All the site walkways & building pathways at site are provided with uniform sloping to drive the water towards the drainages & storm drain system.
- All the building constructed at site are provided with uniform sloping at the roof to drive the water towards the draining & catch basins.
- We have provided adequate rainwater storage tank.
- FY 2024-25 we have treated the rain water is 5371 KL
- The rainwater used to utilities as makeup.

Rainwater treatment & Re-use system



Annexure-I
Products manufactured for the FY 2024-2025

Sr. No.	Name of Product
1.	(3AR,4R,6AS)-4-(((TERT-BUTYLDIMETHYLSILYL)OXY)METHYL)-2,2-DIMETHYLTETRAHYDRO-4H-[1,3]DIOXOLO[4,5-C]PYRROLE (BCX-2477)
2.	2-[4-[2-[4-[1-(2-ETHOXYETHYL)-1H-BENZIMIDAZOL-2-YL]-PIPERIDIN-1-YL] ETHYL] PHENYL]-2-METHYLPROPIONIC ACID (F-96221-BM1, BQ-CODE) (BILASTINE)
3.	4-(2-(3-CHLOROQUINOXALIN-2-YL)-2,2-DIFLUOROETHYL)-1,3-DIOXOLAN-2-ONE (DFQ)
4.	DAPSONE
5.	(S)-2-(HYDROXYMETHYL)-1,2-DIHYDRO-3H,8H-2A,5,8A-TRIAZAACENAPHTHYLENE-3,8-DIONE (GSK-807)
6.	METHYL 3,4-DIHYDRO-2H-PYRANO [2,3-C] PYRIDINE-6-CARBOXYLATE (GSK-898)
7.	TRIOL
8.	(1R,2S,5R)-2-ISOPROPYL-5-METHYLCYCLOHEXANE-1-CARBOXYLIC ACID)
9.	(1R,2S,5R)-2-ISOPROPYL-N-(4-METHOXYPHENYL)-5-METHYLCYCLOHEXANE-1-CARBOXAMIDE
10.	(2R, 3R, 4S, 5S, 6R)-2-(ACETOXYMETHYL)-6-(2, 2, 2-TRICHLORO -1-IMINOETHOXY) TETRAHYDRO-2H-PYRAN-3, 4, 5-TRIYL TRIBENZOATE
11.	(2R,3S)-3-AMINOPENTAN-2-OL
12.	(2R,5S)-1-(TERT-BUTOXYCARBONYL)-5-(2-(4-CHLORO-3-FLUOROPHENOXY)ACETAMIDO)PIPERIDINE-2-CARBOXYLIC ACID
13.	(2S,3S,4S,5R,6R)-2-(((2R,3R,5S,6R)-4-(((2R,3S,4S,5R,6R)-3-ACETOXY-4,5-BIS(BENZYLOXY)-6-((BENZYLOXY)METHYL)TETRAHYDRO-2H-PYRAN-2-YL)OXY)-3,5-BIS(BENZYLOXY)-6-(4-METHOXY-4-OXOBUTOXY)TETRAHYDRO-2H-PYRAN-2-YL)METHOXY)-6-((((2S,3S,4S,5R,6R)-3-ACETOXY-4,5-BIS(BENZYLOXY)-6-((BENZYLOXY)METHYL) TETRAHYDRO-2H-PYRAN-2-YL)OXY)METHYL)TETRAHYDRO-2H-PYRAN-3,4,5-TRIYL TRIBENZOATE)
14.	(R)-N-((R)-(3-AMINO-4-FLUOROPHENYL) (3-CYANOPHENYL) METHYL)-2-METHYL PROPANE-2-SULFINAMIDE
15.	(S)-1-(4-BROMOPHENYL)-2,2,2-TRIFLUORO-N-METHYLETHANAMINE HYDROCHLORIDE (BROMOPHENYL CF3 METHYLETHANAMINE HCL, A-1955464-1)
16.	(S)-1'-(TERT-BUTYL)-3-CHLORO-5,7-DIHYDROSPIRO[CYCLOPENTA[b]PYRIDINE-6,3'-PYRROLO[2,3-b]PYRIDIN]-2'(1'H)-ONE
17.	(S)-2-(((S)-6,8-DIFLUORO-1,2,3,4-TETRAHYDRONAPHTHALEN-2-YL)AMINO)-N-1-(2-METHYL-1-(NEOPENTYLAMINO)PROPAN-2-YL)-1H-IMIDAZOL-4-YL)PENTANAMIDE DIHYDROBROMIDE
18.	(S)-2-AMINOPROPAN-1-OL /L-ALANINOL
19.	(S)-2-METHYL PROLINE HYDROCHLORIDE
20.	(S)-3-HYDROXYTETRAHYDROFURAN
21.	2-((1,1-DIOXIDOTETRAHYDRO-2H-THIOPYRAN)-4-SULFONAMIDO)-4-(TRIFLUOROMETHYL)-N-(4-(TRIFLUOROMETHYL)BICYCLO[2.2.2]OCTAN-1-YL)BENZAMIDE

22.	2-(4-(6-((4-CYANO-2-FLUOROBENZYL)OXY)PYRIDIN-2-YL)-2-FLUORO-5-METHYLPHENYL)ACETIC ACID
23.	4-(((6-BROMOPYRIDIN-2-YL)OXY)METHYL)-3-FLUOROBENZONITRILE
24.	4-(2-CHLOROETHYL)MORPHOLINE HYDROCHLORIDE
25.	5-(5-CYANO-2-CYCLOPROPOXYPHENYL)-N-((3R,5S)-1-CYANO-5-(METHOXYMETHYL)PYRROLIDIN-3-YL)OXAZOLE-2-CARBOXAMIDE
26.	6-CHLORO-2,3-DIFLUOROBENZONITRILE
27.	6'-FLUOROSPIRO[CYCLOPROPANE-1,3'-INDOLIN]-2'-ONE (PF-07927020)
28.	7-FLUORO-2-OXOINDOLINE-4-CARBOXYLIC ACID
29.	8-CYCLOPENTYL-2-[4-(4- METHYL-PIPERAZIN-1-YL)PHENYLAMINO]-7-OXO-7,8-DIHYDROPYRIDO[2,3-d]PYRIMIDINE-6-CARBONITRILE, MONOLACTATE SALT
30.	ALDEHYDE
31.	CYCLOPROPANECARBALDEHYDE (
32.	ETHYL (Z)-3-HYDROXY-2-(TETRAHYDRO-2H-PYRAN-4-YL)ACRYLATE (A-2236713.0) (STAGE-B)
33.	Ibutilide Fumarate
34.	METHOXYNITRILALDEHYDE
35.	METHYL 2-((3-(2-AMINO-2-OXOACETYL)-1-BENZYL-2-ETHYL-1H-INDOL-4-YL)OXY)ACETATE
36.	METHYL 3a-HYDROXY-5ß-CHOLA-9(11)-EN-12-ONE-24-OATE ACETATE
37.	METHYL 4-(((2R, 3S, 4S, 5R, 6R)-4-(ALLYLOXY)-3, 5-BIS (BENZYLOXY)-6-(HYDROXYMETHYL) TETRAHYDRO-2H-PYRAN-2-YL) OXY) BUTANOATE
38.	N-((1r,4r)-4-ACETAMIDOCYCLOHEXYL)-2-(4-(5-(p-TOLYL)-1,2,4-TRIAZIN-3-YL)PIPERAZIN-1-YL) ACETAMIDE HYDROBROMIDE (MLS-101)
39.	N-[4-(1-METHYL-1H-PYRAZOL-4-YL)-BENZYL]-{6-[7-(3-PYRROLIDIN-1-YL-PROPOXY)-IMIDAZO [1,2-a]PYRIDIN-3-YL]-PYRIMIDIN-4-YL}-AMINE
40.	N-[6-(2-HYDROXYETHOXY)-5-(2-METHOXYPHENOXY)-2-[2-(1H-TETRAZOL-5-YL)-4-PYRIDINYL]-4-PYRIMIDINYL]-5-METHYL-2-PYRIDINESULFONAMIDE DISODIUM SALT
41.	PHENYL (5-(TERT-BUTYL)ISOXAZOL-3-YL)CARBAMATE
42.	PURIFIED 4-METHOXYANILINE
43.	TERT-BUTYL (S)-5-AMINO-4-((R)-5-BROMO-4-FLUORO-3-METHYL-1-OXOISOINDOLIN-2-YL)-5-OXOPENTANOATE
44.	TOLUENE-4-SULFONIC ACID 2-[4-[1-(4,4-DIMETHYL-4,5-DIHYDRO-OXAZOL-2-YL)-1-METHYL ETHYL]PHENYL] ETHYL ESTER
45.	1-(4-BROMOPHENYL)-4-ISOBUTYLPIPERAZINE
46.	2-(2,5-DIFLUORO-4-(4,4,5,5-TETRAMETHYL-1,3,2-DIOXABOROLAN-2-YL)PHENYL)ACETIC ACID (LSN4269257)
	Total Production for the FY 2022-2023 - 89.460 MT/Annum

Sl. No.	Products	CFO Quantity MT/Annum	Manufacturing Quantity (MT/A)
1	Benzidine Triol (B Triol)	0.15	0.135
2	Bilastine API	30	23.035
3	BCX-2477	0.3	0.228
4	Dapsone	3	2.65
5	DFQ	10	0.952
6	BOC – Ketone	3	0.79
7	R&D Products	30	28.969
8	GSK - DCHU (1,3-dicyclohexylurea Stage-A)	2	0.00
9	GSK-807	20	6.048
10	GSK-898	15	4.403
11	Imepitoin	35	6.00
12	Tosylate Stage E	5	0.00
13	NBI – 77810	45	16.25
14	Ribavirin	1.2	0
15	Isoproterenol	0.006	0
16	Doxercalciferol	0.001	0
17	ACT-674509 B	4	0
18	BAY – 1142524	1	0
19	Rapastinel	5	0
20	Compound 2- ASTEX	1	0
21	Palbo Intermediate-1	1	0
22	Palbo Intermediate-2	1	0
23	T Diol	1	0
	Total	**213.657**	89.460

Annexure-II
Raw material consumption for the FY 2024-2025

Sl. No	Name of raw material	Quantity in MT
1.	(+/-)-2,2'-Bis(Diphenylphosphino)-1,1'-Binaphthyl	0.35
2.	(1S)-(+)-10-Camphorsulfonicacid	0.077
3.	(E)-1-Ethoxyethene-2-Ylboronicacidpinacolester	0.255
4.	(R)-1-Phenethylamine	0.33
5.	(R)-2-Allylpyrrolidine-2-Carboxylicacidhydrochloride	0.079
6.	(S)-(-)-2-Methyl-Cbs-Oxazaborolidine	0.009
7.	(S)-2-(Boc-Amino)Butyric acid	0.097
8.	Trimethylsilane	0.049
9.	[1,1-Bisdiphenylphosphinoferrocene]-Dichloropalladium(II)Dichloromethanecomplex	0.014
10.	1-(3-Dimethylaminopropyl)-3-Ethylcarbodiimidehydrochloride(Edchcl)	0.003
11.	1,1-Carbonyldiimidazole	0.094
12.	1,1 Carbonyldiimidazole	0.66
13.	1,2-Dibromoethane	0.007
14.	1,2-Dimethoxyethane	20
15.	1, 3-Dibromo-5, 5-Dimethylhydantoin	0.089
16.	1,8-?Diazabicycl	0.193
17.	1,8-Diazabicyclo	6.443
18.	10%Methanolicammonia	1.861
19.	12-Methoxy-12-Oxododecanoicacid	0.076
20.	1-Bromo-2-(Bromomethyl)-4-Methoxybenzene	0.059
21.	1-Chloro-3,4-Difluorobenzene	0.273
22.	1-Hydroxybenzotriazoleanhydrous	0.003
23.	1-Methylpyrazole-4-Boronicacidpinacolester	0.068
24.	1-Propanol	214.463
25.	2-(4-Chloro-3-Fluorophenoxy)	0.004
26.	2,2,2-Trichloroethylchloroformate	0.167
27.	2,2-Dimethyl-1,3-Dioxane-4,6-Dione	0.084
28.	2,3-Dibromo-5-Chloropyridine	16.242
29.	2,6-Di-Tert-Butyl-4-Methylphenol	0.002
30.	2,6-Di-Tert-Butyl-4-Methylphenol	0.153
31.	2,6-Lutidine	0.003
32.	2-Bromo-3-Methylpyridine	10.814
33.	2-Bromo-4-(Trifluoromethyl)	0.012
34.	2-Bromo-6-Fluoro-Pyridine	0.136
35.	2-Chloro-6-Methoxy-3-Nitropyridine	17.847
36.	2-Chlorobenzonitrile	0.025

37.	2-Chloroethanol	0.128
38.	2-Ethoxyethanol	0.5
39.	2-Methyltetrahydrofuran	8.772
40.	3-(Di-Tert-Butylphosphonium)	0.014
41.	3,4-Dihydro-2h-Pyran	5.69
42.	30%Hydrochloricacidinisopropylalcohol	8.249
43.	3-Cyanobenzaldehyde	0.909
44.	3-Fluoro-4-(Hydroxymethyl)Benzo nitrile	0.113
45.	3-Methoxybenzaldehyde	0.65
46.	4-(4-Methylpiperazin-1-Yl)Aniline	0.018
47.	4-(Trifluoromethyl)Bicyclo[2.2.2]Octan-1-Aminehydrochloride	0.009
48.	4,4-Dimethoxytritylchloride	0.019
49.	4,5-Dicyanoimadazole	1.214
50.	4,6-Dichloropyrimidine	0.201
51.	4-Bromo-2,5-Difluorophenylaceticacid	0.089
52.	4-Bromo-2-Fluoro-5-Methylbenzoicacid	0.244
53.	4-Bromobenzylamine	0.051
54.	4-Cyanobenzaldehyde	0.041
55.	4-Dimethylaminopyridine	0.442
56.	4-Fluoro-2-Methyl-5-Nitrobenzoicacid	0.061
57.	4-Penten-1-OL	7.072
58.	50%Ethyl glyoxalatein	11.187
59.	5-Bromo-2-Fluoroaniline	1.798
60.	Ac-Cys-Oh	0.195
61.	Acetic acid	0.172
62.	Acetic acid	23.929
63.	Acetic anhydride	11.489
64.	Acetylchloride	4.121
65.	Activatedcarbon(Gradepentcarb(A)	0.537
66.	Activatedcarbon(MB-320)	1.279
67.	Activatedcarbon(Noritasupra-Eur)	0.001
68.	Activatedcarbon31hwneutral	0.355
69.	Activatedcarbonpowder(Grade-Pencarb(U))	0.072
70.	Activatedcharcoal	1.749
71.	Activatedcharcoalnoritcgpsuper	0.627
72.	Activatedneutralcarbon	1.241
73.	Addzyme015	0.052
74.	Alcohol[Ethanol]	191.362
75.	Alcohol [Ethanol](Mc:0.1%)	23.352
76.	Allylalcohol	0.118
77.	Allylbromide(Assay:98%)	0.728
78.	Aluminiumoxideneutral	0.749

79.	Ammonia(25%Aqueoussolution)	0.114
80.	Ammoniasolution,25%	31.842
81.	Ammoniumcarbamate	0.28
82.	Ammoniumchloride(Appearance:Whitesolid)	0.048
83.	Ammoniumchloride	7.41
84.	Anhydrouslithiumiodide	0.599
85.	Azobisisobutyronitrile	0.001
86.	Azobisisobutyronitrile	0.005
87.	Benzaldehydedimethylacetal	0.037
88.	Benzoicanhydride	1.867
89.	Benzophenone	0.265
90.	Benzotrifluoride	1.956
91.	Benzoylchloride	1.987
92.	Benzylbromide	0.686
93.	Bis(4-Chlorophenyl)Sulfone	5.85
94.	Bis(pinacolato)diboron	0.268
95.	Bis(Triphenylphosphine)Palladium(Ii)Chloride	0.018
96.	Boranen,n-diethylanilinecomplex	0.058
97.	Borontriflourideetherate	0.326
98.	Bromocyclopentane	0.037
99.	Celite(Hyflow)	6.355
100.	Cesiumcarbonate	0.026
101.	Chloralhydrate	0.429
102.	Citricacid	0.524
103.	Citricacidmonohydrate	19.042
104.	Copper(i)iodide	0.014
105.	Copperpowder(com)[7440-50-8]	0.059
106.	Coppersulphatepentahydrate	6.27
107.	Cyclo amyl Carbinol	12.169
108.	Cyclopropanecarboxamide	0.027
109.	Decanoylchloride	0.096
110.	Dibutylether	0.038
111.	Dicobaltoctacarbonyl	0.116
112.	Dicyclohexylcarbodiimide	0.584
113.	Diisobutyl aluminium hydride	0.129
114.	Diisobutyl aluminium hydride	0.298
115.	Diisopropylamine(com)[108-18-9]	13.478
116.	Dimethylsulfideboraneindms(com)[13292-87-0]	0.07
117.	Dimethylsulfoxide(com)[67-68-5]	4.239
118.	Diphenylether(com)[101-84-8]	0.118
119.	Diphenylphospine99%neat(com)[829-85-6]	0.167
120.	Di-tert-butyl(chloromethyl)phosphate(com)[229625-50-7]	0.058

121.	Ditertbutyldicarbonate(com)[24424-99-5]	0.243
122.	D-mannose(com)[3458-28-4]	0.551
123.	D-ribose(com)[50-69-1]	1
124.	Dryice(com)[124-38-9]	62.67
125.	Dry methylbenzene	6.261
126.	Ethylacetatehydrochloride(4m)(com)[7647-01-0]	0.02
127.	Ethylenedichloride(com)[107-06-2]	12.207
128.	Ethyleneglycol(sumallimpurities:nmt0.3%)(com)[107-21-1]	1.463
129.	Ethylformate(com)[109-94-4]	0.164
130.	Ethylmagnesiumbromide(com)[925-90-6]	1.886
131.	Formicacid(com)[64-18-6]	1.493
132.	Formicacid-98%(com)[64-18-6]	0.003
133.	Galactosaminepentaacetate(com)[76375-60-5]	1.568
134.	Glucosaminehydrochloride(com)[66-84-2]	0.107
135.	Glycine(com)[56-40-6]	4.42
136.	Hydrazinehydrate80%(com)[10217-52-4]	0.5
137.	Hydrobromicacid48%(com)[10035-10-6]	2.954
138.	Hydrochloricacid(assay31-33%w/w)(com)[7647-01-0]	0.406
139.	Hydrochloricacid-(c.p)(ironcontentnmt10ppm)(com)[7647-01-0]	37.643
140.	Hydrochloricacid,5.5molarsolutioninisopropylalcohol(com)	0.041
141.	Hydrochloricacid2.0minmtbe(com)[7647-01-0]	0.415
142.	Hydrochloricacid3.0minmethanol(com)[7647-01-0]	0.411
143.	Hydrochloricacid-cp(com)[7647-01-0]	247.858
144.	Hydrochloricacidin2-propanol(assay:nlt14.00%)(com)[7647-01-0]	0.078
145.	Hydrogenperoxide-35%(com)[7722-84-1]	0.326
146.	Hydroxylaminehydrochloride(com)[5470-11-1]	0.313
147.	Hydroxylaminesulphate(com)[10039-54-0]	1.278
148.	Hypophosphorousacid(com)[6303-21-5]	0.005
149.	Imidazole(com)[288-32-4]	0.438
150.	Iodine(com)[7553-56-2]	0.045
151.	Isobutylchloroformate(com)[543-27-1]	0.003
152.	Isobutyl methylketone(com)[108-10-1]	11.05
153.	Isobutyraldehyde(com)[78-84-2]	0.152
154.	Isoniipecoticacid(com)[498-94-2]	16.187
155.	Isopropylacetate(com)[108-21-4]	0.522
156.	Isopropylmagnesiumchloride(2minthf)[1068-55-9](com)	74.582
157.	L-alanine[56-41-7]	1.569
158.	Lauroylchloride(dodecanoylchloride)(com)[112-16-3]	0.122
159.	Lipase-tl[9001-62-1]	0.538
160.	Liquidnitrogen	2514.682
161.	Lithiumborohydride4.0minthf(com)[16949-15-8]	0.182
162.	Lithiumchlorideanhydrous(com)[7447-41-8]	1.38

163.	Lithiumdi-isopropylamide(2.0minthf)(density:0.79-0.84)(com)[4111-54-0]	19.887
164.	Lithiumdiisopropylamide2minthf(com)[4111-54-0]	5.955
165.	Lithiumhexamethyldisalazide1.0molsolinthf[4039-32-1](com)	0.103
166.	Lithiumhydroxideanhydrous(com)[1310-65-2]	0.057
167.	L-lacticacid(com)[79-33-4]	0.008
168.	L-malicacid(com)[97-67-6]	39.653
169.	L-malicacid(purity:notlessthan85.0%)(com)[97-67-6]	74.332
170.	Magnesiummetalturnings(com)[7439-95-4]	0.092
171.	Magnesiumsulphateanhydrous(com)[7487-88-9]	0.065
172.	Maleicanhydride(puritynlt:99.0%)(com)[108-31-6]	1.141
173.	Malonicacid(com)[141-82-2]	0.064
174.	Manganesedioxide(com)[1313-13-9]	0.832
175.	M-chloroperbenzoicacid(com)[937-14-4]	0.018
176.	Methanesulfonylchloride(com)[124-63-0]	0.821
177.	Methanesulphonicacid(com)[75-75-2]	0.118
178.	Methyl-5-hydroxypentanoate(com)[14273-92-8]	0.58
179.	Methylchloroformate(com)[79-22-1]	4.998
180.	Methylcyanoacetate(com)[105-34-0]	0.014
181.	Methylcyclo Amyl Carbinol (com)[108-87-2]	75.273
182.	Methylformate(com)[107-31-3]	0.186
183.	Methyliodide(com)[74-88-4]	7.466
184.	Methylmagnesiumbromide3.0min2-methylthf(com)[75-16-1]	0.6
185.	Methylmagnesiumchloride(3minthf)(com)[676-58-4]	20.573
186.	Molecularsieves4apowder(com)[70955-01-0]	0.001
187.	Monochlorobenzene(com)[108-90-7]	0.783
188.	Mono-methyloxalylchloride(com)[5781-53-3]	7.161
189.	Morpholine(com)[110-91-8]	0.303
190.	Myristicacid(com)[544-63-8]	0.007
191.	N-(3-dimethylaminopropyl)-n'-ethylcarbodiimidehydrochloride(com)[25952-53-8]	0.061
192.	N,n,n?,n?-tetramethylchloroformamidinium-hexafluorophosphate(com)[94790-35-9]	0.001
193.	N,n-diisoproppylethylamine(com)[7087-68-5]	0.119
194.	N,n-dimethylacetamide(com)[127-19-5]	1.389
195.	N.bromosuccinimide(com)[128-08-5]	0.144
196.	N-butyllithium,2.50min Amyl Carbinol (com)[109-72-8]	8.929
197.	N-butyllithium1.60molarin Amyl Carbinol (com)[109-72-8]	0.531
198.	Nitricacid72%(com)[7697-37-2]	3.309
199.	N-methylmorpholinen-oxide50%aqeous.soln(com)[7529-22-8]	0.963
200.	N-methylpyrrolidinone(nmp)(com)[872-50-4]	4.769
201.	N-o-dimethylhydroxylaminehcl(com)[6638-79-5]	0.056
202.	N-propylacetate(com)[109-60-4]	340.743
203.	N-propylmagnesiumchloride1.0min2-methylthf(com)[2234-82-4]	0.484

204.	O1-tert-butylo2-ethyl(2r,5s)-5-aminopiperidine-1,2-dicarboxylate(com)[2411590-87-7]	0.001
205.	O-benzotriazol-1-yl-n,n,n,n-tetramethyluroniumtetrafluoroborate[tbtu](com)[125700-67-6]	0.015
206.	O-phenylenediamine(com)[95-54-5]	9.196
207.	Orthophenylenediamine(opda)(com)[95-54-5]	0.487
208.	Orthophosphoricacid(com)[7664-38-2]	1.821
209.	Oxalylchloride(com)[79-37-8]	0.456
210.	Oxalylchloride(purity:nlt99.0%)(com)[79-37-8]	0.038
211.	P-anisidine(com)[104-94-9]	0.004
212.	Phenylalanineammonia-lyase(com)[9024-28-6]	0.002
213.	Phenylchloroformate(com)[1885-14-9]	0.231
214.	Phosphorousoxychloride(com)[10025-87-3]	0.661
215.	Phthalicanhydride(com)[85-44-9]	0.959
216.	Pivaloylacetonitrile,(com)[59997-51-2]	0.199
217.	Platinum(1.0%)vanadium(2.0%)oncarbon(com)[7440-06-4]	0.001
218.	Potassiumacetate(com)[127-08-2]	0.498
219.	Potassiumbicarbonate(com)[298-14-6]	6.47
220.	Potassiumcarbonatepowder(com)[584-08-7]	6.132
221.	Potassiumcarbonatereagentgrade98%(powder325mesh)(labgrade)[584-08-7]	0.014
222.	Potassiumdihydrogenphosphate(com)[7778-77-0]	0.097
223.	Potassiumhydrogensulphate(com)[7646-93-7]	1.566
224.	Potassiumhydroxide{powder}[1310-58-3]	7.563
225.	Potassiumhydroxideflacks(com)[1310-58-3]	21.667
226.	Potassiumosmatedihydrate(lrgrade)[10022-66-9]	0.002
227.	Potassiumpermanganate(com)[7722-64-7]	0.525
228.	Potassiumphosphatedibasic(com)[7758-11-4]	0.545
229.	Potassiumphosphatedibasictrihydrate(com)[16788-57-1]	0.08
230.	Potassiumtert-butoxide(1.0minthf(or)12.5%)(com)[865-47-4]	0.05
231.	Potassiumtertiarybutoxide[865-47-4]	0.001
232.	Pottasiumphosphatetribasic(com)[7778-53-2]	0.41
233.	Powderactivatedcarbonpencarb(n)(com)[7440-44-0]	0.028
234.	P- methylbenzenesulfonicacidmonohydrate,(com)[6192-52-5]	19.256
235.	P- methylbenzenesulfonylchloride(assay:90%)[98-59-9]	1.003
236.	Pyridiniumchlorochromate(withmeltingrange)(com)[26299-14-9]	0.021
237.	Pyridiniumpara methylbenzenesulfonate(com)[24057-28-1]	0.092
238.	Quinidine(com)[56-54-2]	0.028
239.	R-(+)-tertbutylsulfinamide(comgrade[196929-78-9]	0.764
240.	R-methyloxazaborolidine(com)[112022-83-0]	0.375
241.	S(+)-5-hydroxydecyne[(s)-1-decyn-5-ol(scv)](com)[848609-05-2]	0.179
242.	Sec.Butylamine[13952-84-6]	0.492
243.	Serinol[534-03-2]	9.784
244.	Silicagel100x200mesh(com)[63231-67-4]	15.004

245.	Silicagel230-400mesh(com)[112926-00-8]	2.48
246.	Silicagel60-120mesh(com)[112926-00-8]	10.751
247.	Silicondioxide(com)[68855-54-9]	0.193
248.	Sodiumacetate(com)[127-09-3]	0.184
249.	Sodiumacetate{mc:0.5%}[127-09-3]	13.673
250.	Sodiumazide(assay:nlt98.5%)(com)[26628-22-8]	0.059
251.	Sodiumbicarbonate(com)[144-55-8]	28.565
252.	Sodiumbis(2-methoxyethoxy)alumuniumhydride(synhydrid/vitride)(cas:22722-98-1)	0.265
253.	Sodiumbisulphite(com)[7631-90-5]	0.784
254.	Sodiumborohydride(com)[16940-66-2]	40.693
255.	Sodiumcarbonate(com)[497-19-8]	22.045
256.	Sodiumchloride(com)[7647-14-5]	42.379
257.	Sodiumcyanide(powder)(com)[143-33-9]	0.056
258.	Sodiumhexametaphosphate(com)[68915-31-1]	0.795
259.	Sodiumhydride60%(com)[7646-69-7]	0.118
260.	Sodiumhydrogencarbonate(labgrade)[144-55-8]	0.003
261.	Sodiumhydroxide(assay:95.0-100.5%w/w)(com)[1310-73-2]	0.05
262.	Sodiumhydroxideflakes(com)[1310-73-2]	59.559
263.	Sodiumhypochlorite(com)[7681-52-9]	17.081
264.	Sodiumiodide(com)[7681-82-5]	0.044
265.	Sodiummetabisulphite(com)[7681-57-4]	0.875
266.	Sodiummetal(com)[7440-23-5]	0.13
267.	Sodiummethoxide(30%inmethanol)(assay:29.0-31.0%w/w)(com)[124-41-4]	0.042
268.	Sodiumnitrite(appearance:whitetopaleyellowsolid)(com)[7632-00-0]	0.142
269.	Sodiumsulfite(com)[7757-83-7]	0.576
270.	Sodiumsulphate(com)[7757-82-6]	21.941
271.	Sodiumtertiarybutoxide(2minthf)(comgrade)[865-48-5]	0.363
272.	Sodiumtertiarybutoxide(com)[865-48-5]	11.53
273.	Sodiumthiosulfateanhydrous{assay:95%}[7772-98-7]	0.018
274.	Sodiumthiosulphatepentahydrate(com)[10102-17-7]	0.4
275.	Sodiumtriacetoxyborohydride(com)[56553-60-7]	0.157
276.	Sulphamicacid(com)[5329-14-6]	0.125
277.	Sulpholane(com)[126-33-0]	15.12
278.	Sulphuricacidcpgrade(com)[7664-93-9]	51.254
279.	Tert-butyl(s)-4,5-diamino-5-oxopentanoatehydrochloride(com)[108607-02-9]	0.061
280.	Tert-butylacetate(com)[540-88-5]	2.328
281.	Tertbutylacrylate(com)[1663-39-4]	0.835
282.	Tertbutylamine(com)[75-64-9]	8.443
283.	Tertbutyldimethylsilylchloride(com)[18162-48-6]	0.664
284.	Tert-butylhydroperoxide70%(inwater)(com)[75-91-2]	0.128
285.	Tertiarybutanol(com)[25-65-0]	0.121
286.	Tetrabutylammoniumacetate(com)[10534-59-5]	0.01

287.	Tetrabutylammoniumiodide(com)[311-28-4]	0.287
288.	Tetraethyleneglycol(purity:98.0%)(com)[112-60-7]	0.2
289.	Tetrahydro-2h-thiopyran-4-sulfonamide1,1-dioxide(c211207020-fp)	0.01
290.	Tetrahydropyranyl-4-aceticacid(com)[85064-61-5]	0.155
291.	Thionylchloride(com)[7719-09-7]	9.986
292.	Titanium(iv)chloride1.0minmdc[7550-45-0]	3.11
293.	Trans-hydroxyprolinemethylester.hcl(com)[40216-83-9]	0.08
294.	Trichloroacetonitrile(mc:0.5)[545-06-2]	1.364
295.	Triethylamine(com)[121-44-8]	47.067
296.	Triethylamine(diethylamine:nmt0.2%a/aandethylamine:nmt0.1%a/a)(com)[121-44-8]	0.051
297.	Triethylsilane(com)[617-86-7]	0.209
298.	Trifluoroaceticacid(com)[76-05-1]	0.035
299.	Trifluoromethanesulfonicanhydride(com)[358-23-6]	19.337
300.	Trimethylchlorosilane(com)[75-77-4]	0.081
301.	Trimethylorthoformate(com)[149-73-5]	1.384
302.	Trimethylsilylchloride(assay:nlt96.0%w/w)(com)[75-77-4]	0.025
303.	Trimethylsilylcyanide(assay:nlt94.0%w/w)(com)[7677-24-9]	0.077
304.	Trimethylsilyltrifluoromethanesulphonate(com)[27607-77-8]	7.98
305.	Triphenylchloromethane(com)[76-83-5]	1.081
306.	Triphenylphosphine(com)[603-35-0]	0.002
307.	Tris-(hydroxymethyl)aminomethane(labgrade)[77-86-1]	0.124
308.	Ureahydrogenperoxide(com)[124-43-6]	0.609
309.	Vinylacetate[108-05-4]	7.315
310.	Water(itemnumber:a12873)(com)[7732-18-5]	0.12
311.	Ymc-triartprepc18-s12nms-10?m	0.012
312.	Zincchlorideanhydrous(com)[7646-85-7]	2.4
313.	Zincdust(com)(particlesize)[7440-66-6]	0.437
314.	1,4-dioxane(com)[123-91-1]	2.461
315.	Acetone(com)[67-64-1]	97.169
316.	Acetone(labgrade)[67-64-1]	0.106
317.	Acetonitrile(com)(wc,nmt0.10%)[75-05-8]	144.728
318.	Acetonitrile(com)[75-05-8]	1.388
319.	Alcohol[ethanol](purity,99.0%)[64-17-5]	0.012
320.	Benzylamine(com)[100-46-9]	0.697
321.	Chloroform(com)[67-66-3]	2.014
322.	Dichloromethane(carbontetrachloride:nmt4ppm)(com)[75-09-2]	42.568
323.	Dichloromethane(com)(methylenechloride)[75-09-2]	938.84
324.	Diisopropylether[isopropylether](com)[108-20-3]	9.069
325.	Dimethylformamide(com)[68-12-2]	175.341
326.	Dimethylformamide(watercontent:nmt0.1%w/w)(com)[68-12-2]	1.385
327.	Ethanol(watercontent:nmt0.20%w/v)(com)[64-17-5]	2.514
328.	Ethanol(watercontent:nmt0.5%w/w)(com)[64-17-5]	1.668

329.	Ethylacetate(com)[141-78-6]	227.023
330.	Amyl Carbinol (com)[110-54-3]	481.58
331.	Hydrochloricacid(labgrade)[7647-01-0]	0.003
332.	Isopropylalcohol[2-propanol](com)(benzenecontrolled)[67-63-0]	1.681
333.	Isopropylalcohol[2-propanol](com)[67-63-0]	1023.838
334.	Isopropylalcohol[2-propanol]{cp:98%}[67-63-0]	12.848
335.	Methanol(com)(benzenecontrolled)[67-56-1]	2360.304
336.	Methanol(watercontent:nmt0.1%w/w)	3.658
337.	Methyltertiarybutylether(com)[1634-04-4]	759.456
338.	Mixedxylene{mc:0.2%}[1330-20-7]	1.196
339.	N-butanol(com)[71-36-3]	19.793
340.	N-heptane(com)[142-82-5]	210.68
341.	N-heptane(labgrade)[142-82-5]	0.008
342.	Pyridine(com)[110-86-1]	3.617
343.	Tetrahydrofuran(com)[109-99-9]	452.526
344.	Tetrahydrofuran(labgrade)(purity99.8%)[109-99-9]	0.011
345.	Tetrahydrofuran(puritynlt98.0%)(com)[109-99-9]	115.836
346.	Tetrahydrofuran(watercontent:nmt0.05%w/w)(com)[109-99-9]	5.852
347.	Tetra hydrofurananhydours(watercontent:20ppm)(com)[109-99-9]	0.606
348.	Methylbenzene (com)[benzenecontent:100ppm][108-88-3]	878.063
349.	Methylbenzene (com)[benzenecontent:50ppm][108-88-3]	10.962
350.	Methylbenzene (thiophenefree)(com)[108-88-3]	121.101
351.	Methylbenzene (watercontent:nmt0.05%w/w)(com)[108-88-3]	1.462
352.	Methylbenzenecommercial(com)(benzene2ppm)[108-88-3]	9.065
353.	Treatedethylacetate(fortriol)	30.287
	Total Raw material consumption (MT/A)	**13065.636**

Different types of gases consumption for the FY 2024-2025

SL .No	Name of the Gas	Quantity (No's/Annum)
1.	Argon gas cylinder	387
2.	Carbon Dioxide cylinder	34
3.	Helium gas cylinder	77
4.	Hydrogen gas cylinder (COM)	1001
5.	Hydrogen gas cylinder (GCGRADE)	206
6.	Nitrogen gas cylinder (COM)	1994
7.	Nitrogen gas cylinder (GCGRADE)	304
8.	Zero air cylinder	533

Annexure-3

Ro-Permeate (ZLDS-Treated water) water analysis report for the FY 2024-2025.

S.NO	Parameters	Units	MOEF notification G.S.R .541E Standard	Minimum	Maximum	Average	Percentage of Variation from Prescribed standards with reasons
1	pH	-	**6 -8.5**	7.6	8.3	8.08	No Deviation. Values are within the prescribed standard.
2	Chemical Oxygen Demand	PPM	**250**	42	73	56.42	
3	Biological Oxygen Demand for 3 days at 27*C	PPM	**30**	20	25	22.25	
4	Ammonical Nitrogen	PPM	**100**	42	62	54.00	
5	Total Suspended Solids	PPM	**100**	Nil			
6	Oil & Grease	PPM	**10**	Nil			
7	Bioassay test	-	**90% survival of fish after first 96 hours in 100% effluent**	Pass			

Annexure-4

Ambient Air Quality & Stack Monitoring Report for the FY 2024-2025

AMBIENT AIR QUALITY MONITORING REPORTS: 2024-2025							
Location	**Parameters**	**Units**	**NAAQ Standards**	**Minimum**	**Maximum**	**Average**	**Percentage of Variation from Prescribed standards with reasons**
Location -1 Near main gate security area	PM 10	µg/m3	100	71.2	81.3	75.1	Ambient air quality parameters are well within the prescribed limits stipulated by concerned regulatory authorities.
	PM 2.5	µg/m3	60	19.4	24.2	21.9	
	SO_2	µg/m3	80	17.8	21.4	19.4	
	NO_2	µg/m3	80	14.6	16.4	15.5	
	Carbon Monoxide(CO)	mg/m^3	2.0	1.3	1.7	1.5	
	Lead (Pb)	$µg/m^3$	1.0	0.4	0.8	0.6	
	Arsenic(As)	ng/m^3	6.0	BDL	BDL	BDL	
	Nickel(Ni)	ng/m^3	20.0	BDL	BDL	BDL	
	Ozone(O_3)	$µg/m^3$	100	10.4	14.7	12.7	
	Ammonia(NH3)	$µg/m^3$	400.0	9.1	12.8	10.5	
	Benzene(C_6H_6)	$µg/m^3$	5.0	BDL	BDL	BDL	
	Benzo(a),pyrene (Bap)	ng/m^3	1.0	BDL	BDL	BDL	
Location -2 Near Ware house	PM 10	µg/m3	100	61.6	72.3	67.0	
	PM 2.5	µg/m3	60	16.3	20.6	18.8	
	SO_2	µg/m3	80	14.2	19.2	17.1	
	NO_2	µg/m3	80	12.3	18.4	14.6	
	Carbon Monoxide(CO)	mg/m^3	2.0	0.9	1.7	1.4	
	Lead (Pb)	$µg/m^3$	1.0	0.4	0.7	0.6	
	Arsenic(As)	ng/m^3	6.0	BDL	BDL	BDL	
	Nickel(Ni)	ng/m^3	20.0	BDL	BDL	BDL	
	Ozone(O_3)	$µg/m^3$	100	9.2	14.2	11.9	
	Ammonia(NH3)	$µg/m^3$	400.0	7.8	11.2	9.7	
	Benzene(C_6H_6)	$µg/m^3$	5.0	BDL	BDL	BDL	
	Benzo(a),pyrene (Bap)	ng/m^3	1.0	BDL	BDL	BDL	
Location -3 Near ETP & Boiler area	PM 10	µg/m3	100	68.6	82.7	76.1	
	PM 2.5	µg/m3	60	20.3	25.4	23.3	
	SO_2	µg/m3	80	16.9	21.6	18.9	
	NO_2	µg/m3	80	13.5	18.4	16.0	
	Carbon Monoxide(CO)	mg/m^3	2.0	1.0	1.6	1.4	
	Lead (Pb)	$µg/m^3$	1.0	0.4	0.7	0.5	
	Arsenic(As)	ng/m^3	6.0	BDL	BDL	BDL	

	Nickel(Ni)	ng/m^3	20.0	BDL	BDL	BDL	
	Ozone(O_3)	µg/m^3	100	9.6	14.4	12.0	
	Ammonia(NH3)	µg/m^3	400.0	8.4	13.6	10.7	
	Benzene(C_6H_6)	µg/m^3	5.0	BDL	BDL	BDL	
	Benzo(a),pyrene (Bap)	ng/m^3	1.0	BDL	BDL	BDL	
Location -4 PB-09	PM 10	µg/m3	100	66.2	76.4	71.5	
	PM 2.5	µg/m3	60	17.4	23.2	20.5	
	SO_2	µg/m3	80	15.4	21.4	17.7	
	NO_2	µg/m3	80	10.4	17.6	14.0	
	Carbon Monoxide(CO)	mg/m^3	2.0	1.2	1.8	1.4	
	Lead (Pb)	µg/m^3	1.0	0.5	0.8	0.6	
	Arsenic(As)	ng/m^3	6.0	BDL	BDL	BDL	
	Nickel(Ni)	ng/m^3	20.0	BDL	BDL	BDL	
	Ozone(O_3)	µg/m^3	100	8.9	14.2	12.1	
	Ammonia(NH3)	µg/m^3	400.0	7.7	12.7	10.7	
	Benzene(C_6H_6)	µg/m^3	5.0	BDL	BDL	BDL	
	Benzo(a),pyrene (Bap)	ng/m^3	1.0	BDL	BDL	BDL	

Stack emission monitoring report for the FY 2024-2025							
Location	**Parameters**	**Limits**	**Units**	**Minimum**	**Maximum**	**Average**	**Percentage of Variation from Prescribed standards with reasons**
500 KVA DG SET	PM	150	mg/Nm3	59.3	68.6	64.1	Stack emissions are well within the prescribed limits stipulated by concerned regulatory authorities.
	SO_X	100	mg/Nm3	17.5	23.4	20.0	
	NO_X	50	ppm	14.3	17.1	15.8	
750 KVA DG SET	PM	150	mg/Nm3	64.6	82.6	73.6	
	SO_X	100	mg/Nm3	21.8	27.2	23.9	
	NO_X	50	ppm	18.2	19.5	18.9	
DG SET-1010 KVA-1 (DDGS-07)	PM	75	mg/Nm3	52.4	56.8	54.7	
	NO_X	710	ppm	25.6	29.2	27.4	
	CO	150	mg/Nm3	19.3	25.3	22.2	
	NMHC	100	mg/Nm3	12	14	13.0	
DG SET-1010 KVA-2 (DDGS-08)	PM	75	mg/Nm3	49.2	52.5	51.1	
	NO_X	710	ppm	27.6	33.8	30.3	
	CO	150	mg/Nm3	23.1	25.7	24.2	
	NMHC	100	mg/Nm3	11	14	12.5	
DG SET-2250 KVA (DDGS-09)	PM	75	mg/Nm3	47.8	56.3	51.7	
	NO_X	710	ppm	32.5	39.2	36.4	
	CO	150	mg/Nm3	24.8	28.6	27.1	
	NMHC	100	mg/Nm3	12	17	14.5	
THERMIC FLUID HEATER-1	PM	150	mg/Nm3	69.8	78.2	73.5	
	SO_X	100	mg/Nm3	19.5	23.7	21.5	
	NOx	50	mg/Nm3	16.4	19.4	17.6	

THERMIC FLUID HEATER-2	PM	150	mg/Nm3	67.3	74.6	70.6
	SO_X	100	mg/Nm3	17.2	22.4	19.7
	NOx	50	mg/Nm3	15.6	17.8	16.9
10 TPH BOILER	PM	150	mg/Nm3	36.6	86.3	50.5
	SO_X	600	mg/Nm3	25.7	264.2	213.5
	NO_X	300	mg/Nm3	23.4	135.3	108.2
5 TPH BOILER	PM	150	mg/Nm3	52.6	89.8	62.4
	SO_X	600	mg/Nm3	27.9	75.8	55.9
	NO_X	300	mg/Nm3	25.2	43.6	35.0
2 TPH BOILER	PM	150	mg/Nm3	65.8	82.7	74.4
	SO_X	600	mg/Nm3	19.8	31.6	24.8
	NO_X	300	mg/Nm3	15.2	23.8	19.0

Scrubber emission monitoring report for the FY 2024-2025								
Scrubber Id	**Location**	**Parameter**	**Standards**	**Units**	**Minimum**	**Maximum**	**Average**	**Percentage of Variation from Prescribed standards with reasons**
DSCR-01	PB-1	Acid mist	35 Max	mg/Nm3	18.3	24.5	21.20	Scrubber emissions are well within the prescribed limits stipulated by concerned regulatory authorities
DSCR-28	PB-2	Acid mist	35 Max	mg/Nm3	18.9	29.4	25.77	
DSCR-14	PB-3	Acid mist	35 Max	mg/Nm3	21.4	27.6	24.87	
DSCR-19	PR&D	Acid mist	35 Max	mg/Nm3	20.5	26.8	24.21	
DSCR-20	PR&D	Acid mist	35 Max	mg/Nm3	22.4	29.6	25.80	
DSCR-04	PB -4	Acid mist	35 Max	mg/Nm3	19.5	24.8	21.62	
DSCR-05	PB -4	Acid mist	35 Max	mg/Nm3	22.2	27.4	24.84	
DSCR-21	PB -6	Acid mist	35 Max	mg/Nm3	21.7	29.3	25.98	
DSCR-06	PB -6	Acid mist	35 Max	mg/Nm3	22.5	30.4	26.77	
DSCR-07	PB -6	Acid mist	35 Max	mg/Nm3	21.4	31.2	26.43	
DSCR-02-01	PB -6	Acid mist	35 Max	mg/Nm3	22.7	31.7	26.63	
DSCR-09	PB -7	Acid mist	35 Max	mg/Nm3	20.5	30.6	26.05	
DSCR-10	PB -7	Acid mist	35 Max	mg/Nm3	19.5	27.2	22.58	
DSCR-11	PB -7	Acid mist	35 Max	mg/Nm3	22.6	29.6	26.27	
DSCR-12	PB -7	Acid mist	35 Max	mg/Nm3	19.8	29.8	25.42	

DSCR-16	PB -8	Acid mist	35 Max	mg/Nm3	18.7	26.2	22.13
DSCR-17	PB -8	Acid mist	35 Max	mg/Nm3	20.9	27.4	24.43
DSCR-27	QC	Acid mist	35 Max	mg/Nm3	21.6	29.4	25.36
DSCR-18	Ware house	Acid mist	35 Max	mg/Nm3	21.2	28.6	25.76
DSCR-08	Ware house	Acid mist	35 Max	mg/Nm3	21.4	31.2	26.41
DSCR-13	Ware house	Acid mist	35 Max	mg/Nm3	20.4	31.8	25.69
DSCR-22	ETP	Acid mist	35 Max	mg/Nm3	19.7	29.6	26.28
DSCR-23	PB-09	Acid mist	35 Max	mg/Nm3	23.4	30.3	27.40
DSCR-24	PB-10	Acid mist	35 Max	mg/Nm3	20.5	30.3	25.17
DSCR-25	PB-10	Acid mist	35 Max	mg/Nm3	21.5	27.4	24.61
DSCR-26	PB-12	Acid mist	35 Max	mg/Nm3	25.2	32.2	29.01
DSCR-29	PB-06	Acid mist	35 Max	mg/Nm3	21.5	27.2	24.35
DSCR-30	PB-11	Acid mist	35 Max	mg/Nm3	Newly installed		24.6
DSCR-31	PB-11	Acid mist	35 Max	mg/Nm3			26.4
DSCR-32	PB-12	Acid mist	35 Max	mg/Nm3			28.2

Annexure-5

Sound level monitoring Report for the FY 2024-2025

Month	Time	Limits	Near Security Main gate	Near DG Area	Near Compressor room	Near Boiler House	Near ETP Area	Near Canteen	Near Service Gate-2	Near Service Gate-3	Production Block	Workshop Area
Apr-24	Night	**70**	59.2	68	67.9	68.4	61.4	48.2	61.1	60.7	64.3	61.1
	Day	**75**	68.8	69.2	70.2	71.2	65	53.4	66.8	67.5	69.8	68.3
May-24	Night	**70**	61.6	62.4	66	68	64.4	52.1	61.7	63.5	65.7	64.3
	Day	**75**	66.3	68.6	71.4	70.6	67.5	59.2	69.4	69.5	71.3	70.2
Jun-24	Night	**70**	58.7	65.2	68.5	66.8	67.7	56.6	63.8	66.5	63	68.2
	Day	**75**	62.9	69.9	70.4	73.1	70.6	62.1	70.3	67.9	65.8	67.9
Jul-24	Night	**70**	60	65	67	68.5	68.5	58.3	65.4	65.5	68.2	66.2

	Day	**75**	66.4	67.7	68.1	72.5	73	59.5	68.3	66.9	67.9	70.5
Aug-24	Night	**70**	59.7	65.4	68.5	66.8	64.3	55.4	62.9	62.1	68.1	66.8
	Day	**75**	64.5	67	70.2	72.2	69.5	61	71.3	71	67.9	67.9
Sep-24	Night	**70**	59.9	66.1	66.3	65.6	67.2	54.1	65.9	65.1	64.1	69.8
	Day	**75**	63.9	70.4	70.4	73.1	70.1	59.4	67.8	69.4	67.7	70.4
Oct-24	Night	**70**	61.5	64	68.8	68.8	65.8	55.2	64.8	66.4	62.6	68.7
	Day	**75**	66	66.9	69.9	72.3	68.6	60.7	71.2	67.4	70	73.8
Nov-24	Night	**70**	60.4	63.3	69.8	67.4	66.3	56.4	65.8	67	63.9	67.5
	Day	**75**	65.6	69.3	71.7	73.5	69.5	62.9	72.4	69.2	71.4	72
Dec-24	Night	**70**	57.2	63	66.6	67.5	65.3	57.7	62.8	67.9	63.6	67
	Day	**75**	66.9	68.6	71	72.9	67.8	63.5	66.7	68.6	67.1	65.4
Jan-25	Night	**70**	60.7	62	69	67.7	64.2	56.3	62.5	60.5	61.6	66.5
	Day	**75**	67.4	67.1	70	71.4	66.4	62.9	70.2	69	71.1	72.1
Feb-25	Night	**70**	60	68.4	69.6	69.5	66.5	57	66.5	64.6	68.7	68.4
	Day	**75**	65	68.4	71.3	73.2	71	62	72.2	72.7	68.7	69.6
Mar-25	Night	**70**	64.3	68.1	67.4	64.7	68.2	62.4	67.9	67.5	63.4	68.4
	Day	**75**	64.8	67.4	71.4	72.5	71.3	62.5	65.4	70.9	68.4	71.8

Annexure-6
Hazardous wastes characteristics

MEEPL

MOTHER EARTH ENVIRON TECH PRIVATE LIMITED

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TC-8956

Reg. No.: RI91/10468

Site:Plot No.217, 2 nd Phase KIADB Industrial Area, Harohalli, Kanakapura Tq, Ramanagara Dist, Karanataka-562112.
Head Office: Survey No.13,Challaghatta village, Kengeri Hobli, Bengaluru South Taluk,Bengaluru-560074.
Ph. No.: 7338464597, +91 80 26712303, Fax: 080-26712305
Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

LABORATORY

Date: 15.10.2020

Report No: MEEPL/LAB/20-21/CA/R-056

To,

Sai Life Sciences Limited,
79-B, 80-A, 80-B, 81-A & 82,
Kolhar Industrial Area,
Bidar – 585 403, Karnataka.

We are here with enclosing the analysis report of **Chemical Sludge from Waste Water Treatment (MEE/ATFD Salt)** with Report No.: **MEEPL/LAB/20-21/CA/R-056** and the sample was received on 09/10/2020.

Thanking you,

For Mother Earth Enviro Tech Pvt Ltd

15/10/2020

Authorized Signatory
Siva Sankar Ollipilli
Assistant Manager (Laboratory)

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Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

LABORATORY

TEST REPORT

Date: 15.10.2020

Report No: MEEPL/LAB/20-21/CA/R-056

Waste Generator Details:

Sai Life Sciences Limited,
79-B, 80-A, 80-B, 81-A & 82,
Kolhar Industrial Area,
Bidar – 585 403, Karnataka.

Sample ID	MEEPL/LAB/20-21/CA-056	**Sample Received By**	Mr. Siva Sankar
Sample Description	Chemical Sludge from Waste Water Treatment (MEE/ATFD Salt)	**Sample Condition**	Received in Polythene cover
Sampling Done by	Client	**Analysis Start Date**	09/10/2020
Sample Received Date	09/10/2020	**Analysis End Date**	14/10/2020
Sampling procedure	MEEPL/SOP/LAB/SA-001	**Report Date**	15/10/2020

S. No.	Parameter		Result
1	Physical State		Solid
2	Color		Brown
3	Texture		Wet Cake
4	Compatibility Test	Is there any violent chemical change (in air) (Normally unstable) (Yes/No)	No
5		Reacts violent with water (Yes/No)	No
6		Generation of toxic fumes with water/acid/basic (Yes /No)	No
7		Forms potentially explosive mixture with water (Yes/No)	No
8		Explosive when subjected to a strong initiating force (Yes/No)	No
9		Explosive at normal temperature & pressure (Yes/No)	No

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Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

Report No: MEEPL/LAB/20-21/CA/R-056

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
10	pH @28.2°C	-	USEPA;9045C,(1995)	5.65	4 to 12
11	Loss on drying at 105°C	%	MEEPL/SOP/LAB/SW-002; Issue No.: 00; Issue Date: 02.09.2019	17.86	---
12	Loss on Ignition at 550°C (Dry Basis)	%	MEEPL/SOP/LAB/SW-003; Issue No.: 00; Issue Date: 02.09.2019	**38.19**	<= 20% Non biodegradable <=
13	Flash Point	°C	USEPA;1020A(1992)	>65	65.5
14	Paint Filter Liquid Test	-	USEPA-9095A(1996)	Pass	Pass
15	Bulk Density	g/cc	ASTM D 5057-10,(2017)	1.10	---
16	Calorific Value	Cal/gm	IS: 1350 (Part-II),(Reff.2013)	1984	< 2500
17	Reactive Cyanide	mg/Kg	USEPA9010C(2004)& APHA23rd Edi; 4500 CN-E (2017)	BDL	<250
18	Reactive Sulfide	mg/Kg	USEPA 9030 B (1996)& 9034 (1996)	BDL	<500
19	Ammonical Nitrogen as NH3 (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&APHA 23rd Edition,2017;4500 NH3 B,C	BDL	<1000
20	Ammonical Nitrogen as NH3 (TCLP)	mg/L	APHA 23rd Edition,2017;4500 NH3 B,C	BDL	<50
21	Extractable Organics	%w/w	USEPA-3540C (1996)	BDL	< 4.0
22	Water soluble inorganics	%w/w	APHA 23rd Edi;2540 B&E (2017)	**48.70**	< 20
23	Water soluble organics	%w/w	APHA 23rd Edi;2540 B&E (2017)	**40.90**	< 10
24	Zinc as Zn (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	1269	---
25	Zinc as Zn (WLT)	mg/L	CPCB TSDF Protocol(2010-11)&USEPA-7000B(2007)	**55.0**	<10
26	Cadmium as Cd (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	BDL	---

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Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

Report No: MEEPL/LAB/20-21/CA/R-056

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
27	Cadmium as Cd (TCLP)	mg/L	USEPA 1311 (1992)(Extraction)&USEPA7000B (2007), AAS	BDL	<1.0
28	Cadmium as Cd (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&USEPA-7000B(2007)	BDL	< 0.2
29	Total Chromium as Cr 3+ (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	10.9	---
30	Chromium as Cr 3+(TCLP)	mg/L	USEPA 1311 (1992)(Extraction)&USEPA7000B-2007	0.52	< 5.0
31	Hexavalent Chromium as Cr6+ (Total)	mg/Kg	USEPA 1998,SW846; 7196 A&APHA;3500 Cr B (2017)	BDL	---
32	Hexavalent Chromium as Cr6+ (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&APHA;3500 Cr B (2017)	BDL	< 0.5
33	Copper as Cu (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	717	---
34	Copper as Cu (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&USEPA-7000B(2007)	**39.8**	<10
35	Nickel as Ni (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	11.1	---
36	Nickel as Ni (WLT)	mg/L	CPCB TSDF Protocol(2010-11)&USEPA-7000B(2007)	0.78	<3.0
37	Lead as Pb (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	9.32	---
38	Lead as Pb (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&USEPA7000B (2007), AAS	0.38	<5.0
39	Lead as Pb (WLT)	mg/L	CPCB TSDFProtocol(2010-11)&USEPA-7000B(2007)	0.38	<2.0
40	Cyanide (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500CN- K	BDL	<2.0
41	Cyanide (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&APHA 23rd Edition,2017; 4500CN- K	BDL	<20
42	Fluoride as F- (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500 F-D	**80.6**	<50

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Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

Report No: MEEPL/LAB/20-21/CA/R-056

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
43	Nitrate Nitrogen as N (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500 NO3 B	**12043**	<30
44	Nitrate Nitrogen as N (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&APHA 23rd Edition,2017; 4500 NO3 B	**10842**	<1000

BDL - Below Detection Limit,
SW 846 -Test methods for Evaluating Solid waste, Physical/chemical methods, USEPA,
IS - Indian Standard,
ASTM - American standard of testing material,
APHA -Standard methods for the examination of water and waste water, 23rd Edition, 2017,
WLT - Water Leaching Test,
TCLP -Toxicity Characteristics Leaching Procedure,
STLC - Solubility Threshold Limit Concentration.

Note:

- Reports pertained only to the submitted sample
- Test reports shall not be reproduced without permission of the laboratory
- Any correction invalidates this test report

*****End of Report*****

15/10/2020
Suresh Kumara K M
Chemist
(Laboratory)

15/10/2020
Siva Sankar Ollipilli
Assistant Manager
(Laboratory)

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Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

LABORATORY
TEST REPORT

Date: 15.10.2020

Report No: MEEPL/LAB/20-21/CA/R-056A

Waste Generator Details:

Sai Life Sciences Limited,
79-B, 80-A, 80-B, 81-A & 82,
Kolhar Industrial Area,
Bidar – 585 403, Karnataka.

Sample ID	MEEPL/LAB/20-21/CA-056	**Sample Received By**	Mr. Siva Sankar
Sample Description	Chemical Sludge from Waste Water Treatment (MEE/ATFD Salt)	**Sample Condition**	Received in Polythene cover
Sampling Done by	Client	**Analysis Start Date**	09/10/2020
Sample Received Date	09/10/2020	**Analysis End Date**	14/10/2020
Sampling procedure	MEEPL/SOP/LAB/SA-001	**Report Date**	15/10/2020

.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
1	Sulfide (TCLP)	mg/Kg	CCR- Appendix II of section 66261 of Title 22 &APHA23rd Edi, 4500 S^2F(2017)	BDL	<5
2	Zinc as Zn(STLC)	mg/L	CCR- Appendix II of section 66261 of Title 22 &USEPA 7000B-2007	116	<250
3	Hexavalent Chromium as Cr6+ (STLC)	mg/L	CCR- Appendix II of section 66261 of Title 22&APHA;3500 Cr B (2017)	BDL	< 5.0
4	Copper as Cu (STLC)	mg/L	CCR- Appendix II of section 66261 of Title 22 &USEPA-7000B(2007)	44.1	<25
5	Nickel as Ni (STLC)	mg/L	CCR- Appendix II of section 66261 of Title 22&USEPA7000B (2007), AAS	0.87	<20

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JAS-ANZ

Reg. No.: RI91/10468

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Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

Report No: MEEPL/LAB/20-21/CA/R-056A

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
6	Total Phenols (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 5530B&D	BDL	<100
7	Fluoride as F- (STLC)	mg/L	CCR- Appendix II of section 66261 of Title 22 & APHA 23rd Edition,2017; 4500 F- D	**87.9**	<50

BDL - Below Detection Limit,
SW 846 -Test methods for Evaluating Solid waste, Physical/chemical methods, USEPA,
IS - Indian Standard
ASTM - American standard of testing material
APHA -Standard methods for the examination of water and waste water, 23rd Edition, 2017,
WLT - Water Leaching Test
TCLP -Toxicity Characteristics Leaching Procedure
STLC - Solubility Threshold Limit Concentration

Note:

- This Test Report is Continuation to the Report No.: MEEPL/LAB/20-21/CA/R-056
- Reports pertained only to the submitted sample
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- Any correction invalidates this test report

*****End of Report*****

15/10/2020

Suresh Kumara K M
Chemist
(Laboratory)

15/10/2020

Siva Sankar Ollipilli
Assistant Manager
(Laboratory)

FINGER PRINT ANALYSIS REPORT

A Luthra Group Company
GUJARAT ENVIRO PROTECTION &
INFRASTRUCTURE Ltd.
ISO 14001 CERTIFIED

DATE : 18/01/2018

Industry Name : SAI LIFE SCIENCES LIMITED

Code: CV2W1S0070

Waste Name : Organic Residue + Striper Distillate

Waste Code: WO00000034

Category Of Waste as Per Moef Schedule :	Schedule 1 : ☐☐ ☐	Schedule 2 : #A _____ #B _____ #C _____ #D _____ #E _____ ©

No	Parameter	Unit	Method	Value
1	Physical State	-	-	SOLID
2	Color	-	-	BROWNISH
3	Odour	-		MILD
4	Texture	-	-	Lumps
5	Water Reactive	-	-	NON REACTIVE
6	Air Reactive		-	NON REACTIVE
7	pH	10 % W/V	USEPA, SW-846; METHOD 9040,9041 AND 9045	6.31
8	Moisture Content (at 105` C)	%	USEPA, SW-846; METHOD 1010 AND 1020	0.09
9	Loss on Ignition (at 550` C)	%	USEPA, SW-846; METHOD 1010 AND 1020	85.88
10	Ash Content (at 800 ` C)	%	USEPA ; SW-846 ,METHOD - 1010 & 1020	13.12
11	Calorific Value	cal/gm	USEPA,SW-846; METHOD 1010 AND 1020 /IS:1359 - 19	8481.75
12	Total Sulfur	%	USEPA ; SW - 846 ,MEHOD - 9010,9011,9012	0
13	Chloride	%	USEPA ; SW - 846 METHOD - 5050	0
14	reaction with acid		-	NON REACTIVE
15	Reaction with Alkali		-	NON REACTIVE

BDL : Below Detectable Limit -
Other Heavy Metals Analysis can be carried out as required.

For GUJARAT ENVIRO PROTECTION & INFRASTRUCTURE LTD.(UNIT- RANIPET)

Gujarat Enviro Protection & Infrastructure Ltd. CIN No is U74999MH1999PLC285408 RANIPET

Authorised Signatory

Note :

1. This Report is for Privet Use Only And Should Not be Used For Publicity Or Litigation.
2. Authenticity Of This Report Could be Validated With Office Copy at GEPIL.

Unit Location: Plot No. S-60, Phase-III, SIPCOT Industrial Complex, Ranipet-632405, Dist.:Vellore,Tamilnadu Phone:04172-291443
E-mail : ranipet@luthraindia.com
Website : www.gepil.in | www.luthraindia.com

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Phone :+91 261 2890606-7-8 Fax : +91 261 2890600
Regd.office: 370,SVP Road, Shop 8, Cigaretwala Bldg, Opp. CBI, Prathana Samaj, Nr. Harkishandas Hospital, Mumbai - 400004

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TC-8956

Reg. No.: RI91/10468

Site:Plot No.217, 2 nd Phase KIADB Industrial Area, Harohalli, Kanakapura Tq, Ramanagara Dist, Karanataka-562112.
Head Office: Survey No.13,Challaghatta village, Kengeri Hobli, Bengaluru South Taluk,Bengaluru-560074.
Ph. No.: 7338464597, +91 80 26712303, Fax: 080-26712305
Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

LABORATORY

Date: 15.10.2020

Report No: MEEPL/LAB/20-21/CA/R-058

To,

Sai Life Sciences Limited,
79-B, 80-A, 80-B, 81-A & 82,
Kolhar Industrial Area,
Bidar – 585 403, Karnataka.

We are here with enclosing the analysis report of **Process Residues & Wastes** with Report No.: **MEEPL/LAB/20-21/CA/R-058** and the sample was received on 09/10/2020.

Thanking you,

For Mother Earth Enviro Tech Pvt Ltd

15/10/2020

Authorized Signatory
Siva Sankar Ollipilli
Assistant Manager (Laboratory)

MOTHER EARTH ENVIRON TECH PRIVATE LIMITED

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Quality Management System-ISO 9001:2015
Environmental Management System – ISO 14001:2015
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An NABL (ISO/IEC 17025:2017) Accredited Laboratory

MEEPL

TC-8956

Reg. No.: RI91/10468

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LABORATORY
TEST REPORT

Date: 15.10.2020

Report No: MEEPL/LAB/20-21/CA/R-058

Waste Generator Details:

Sai Life Sciences Limited,
79-B, 80-A, 80-B, 81-A & 82,
Kolhar Industrial Area,
Bidar – 585 403, Karnataka.

Sample ID	MEEPL/LAB/20-21/CA-058	**Sample Received By**	Mr. Siva Sankar
Sample Description	Process Residues & Wastes	**Sample Condition**	Received in Polythene cover
Sampling Done by	Client	**Analysis Start Date**	09/10/2020
Sample Received Date	09/10/2020	**Analysis End Date**	14/10/2020
Sampling procedure	MEEPL/SOP/LAB/SA-001	**Report Date**	15/10/2020

S. No.	Parameter		Result
1	Physical State		Solid
2	Color		Mixed Colors
3	Texture		Lumps & Powder
4	Compatibility Test	Is there any violent chemical change (in air) (Normally unstable) (Yes/No)	No
5		Reacts violent with water (Yes/No)	No
6		Generation of toxic fumes with water/acid/basic (Yes /No)	No
7		Forms potentially explosive mixture with water (Yes/No)	No
8		Explosive when subjected to a strong initiating force (Yes/No)	No
9		Explosive at normal temperature & pressure (Yes/No)	No

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Report No: MEEPL/LAB/20-21/CA/R-058

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
10	pH @28.2°C	-	USEPA;9045C,(1995)	**2.89**	4 to 12
11	Loss on drying at 105°C	%	MEEPL/SOP/LAB/SW-002; Issue No.: 00; Issue Date: 02.09.2019	21.74	---
12	Loss on Ignition at 550°C (Dry Basis)	%	MEEPL/SOP/LAB/SW-003; Issue No.: 00; Issue Date: 02.09.2019	**29.45**	<= 20% Non biodegradable <=
13	Flash Point	°C	USEPA;1020A(1992)	>65	65.5
14	Paint Filter Liquid Test	-	USEPA-9095A(1996)	Pass	Pass
15	Bulk Density	g/cc	ASTM D 5057-10,(2017)	1.16	---
16	Calorific Value	Cal/gm	IS: 1350 (Part-II),(Reff.2013)	BDL	< 2500
17	Reactive Cyanide	mg/Kg	USEPA9010C(2004)& APHA23rd Edi; 4500 CN-E (2017)	BDL	<250
18	Reactive Sulfide	mg/Kg	USEPA 9030 B (1996)& 9034 (1996)	BDL	<500
19	Ammonical Nitrogen as NH3 (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&APHA 23rd Edition,2017;4500 NH3 B,C	BDL	<1000
20	Ammonical Nitrogen as NH3 (TCLP)	mg/L	APHA 23rd Edition,2017;4500 NH3 B,C	BDL	<50
21	Extractable Organics	%w/w	USEPA-3540C (1996)	BDL	< 4.0
22	Water soluble inorganics	%w/w	APHA 23rd Edi;2540 B&E (2017)	**21.05**	< 20
23	Water soluble organics	%w/w	APHA 23rd Edi;2540 B&E (2017)	9.10	< 10
24	Zinc as Zn (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	176	---
25	Zinc as Zn (WLT)	mg/L	CPCB TSDF Protocol(2010-11)&USEPA-7000B(2007)	2.52	<10
26	Cadmium as Cd (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	0.74	---

MEEPL

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Reg. No.: RI91/10468

Site:Plot No.217, 2 nd Phase KIADB Industrial Area, Harohalli, Kanakapura Tq. Ramanagara Dist, Karanataka-562112.
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Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

Report No: MEEPL/LAB/20-21/CA/R-058

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
27	Cadmium as Cd (TCLP)	mg/L	USEPA 1311 (1992)(Extraction)&USEPA7000B (2007), AAS	BDL	<1.0
28	Cadmium as Cd (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&USEPA-7000B(2007)	BDL	< 0.2
29	Total Chromium as Cr 3+ (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	10.4	---
30	Chromium as Cr 3+(TCLP)	mg/L	USEPA 1311 (1992)(Extraction)&USEPA7000B-2007	0.03	< 5.0
31	Hexavalent Chromium as Cr6+ (Total)	mg/Kg	USEPA 1998,SW846; 7196 A&APHA;3500 Cr B (2017)	BDL	---
32	Hexavalent Chromium as Cr6+ (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&APHA;3500 Cr B (2017)	BDL	< 0.5
33	Copper as Cu (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	183604	---
34	Copper as Cu (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&USEPA-7000B(2007)	**1665**	<10
35	Nickel as Ni (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	24.9	---
36	Nickel as Ni (WLT)	mg/L	CPCB TSDF Protocol(2010-11)&USEPA-7000B(2007)	0.28	<3.0
37	Lead as Pb (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	7.26	---
38	Lead as Pb (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&USEPA7000B (2007), AAS	0.09	<5.0
39	Lead as Pb (WLT)	mg/L	CPCB TSDFProtocol(2010-11)&USEPA-7000B(2007)	0.04	<2.0
40	Cyanide (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500CN- K	BDL	<2.0
41	Cyanide (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&APHA 23rd Edition,2017; 4500CN- K	BDL	<20
42	Fluoride as F- (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500 F-D	1.88	<50

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TC-8956 Reg. No : RI91/10468

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Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

Report No: MEEPL/LAB/20-21/CA/R-058

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
43	Nitrate Nitrogen as N (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500 NO3 B	**3504**	<30
44	Nitrate Nitrogen as N (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&APHA 23rd Edition,2017; 4500 NO3 B	**3461**	<1000

BDL - Below Detection Limit,
SW 846 -Test methods for Evaluating Solid waste, Physical/chemical methods, USEPA,
IS - Indian Standard,
ASTM - American standard of testing material,
APHA -Standard methods for the examination of water and waste water, 23rd Edition, 2017,
WLT - Water Leaching Test,
TCLP -Toxicity Characteristics Leaching Procedure,
STLC - Solubility Threshold Limit Concentration.

Note:

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- Test reports shall not be reproduced without permission of the laboratory
- Any correction invalidates this test report

*****End of Report*****

15/10/2020

Suresh Kumara K M
Chemist
(Laboratory)

15/10/2020

Siva Sankar Ollipilli
Assistant Manager
(Laboratory)

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TC-8956

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LABORATORY

Date: 15.10.2020

Report No: MEEPL/LAB/20-21/CA/R-057

To,

Sai Life Sciences Limited,
79-B, 80-A, 80-B, 81-A & 82,
Kolhar Industrial Area,
Bidar – 585 403, Karnataka.

We are here with enclosing the analysis report of **Contaminated Silica Gel** with Report No.: **MEEPL/LAB/20-21/CA/R-057** and the sample was received on 09/10/2020.

Thanking you,

For Mother Earth Enviro Tech Pvt Ltd

15/10/2020

Authorized Signatory
Siva Sankar Ollipilli
Assistant Manager (Laboratory)

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LABORATORY

TEST REPORT

Date: 15.10.2020

Report No: MEEPL/LAB/20-21/CA/R-057

Waste Generator Details:

Sai Life Sciences Limited,
79-B, 80-A, 80-B, 81-A & 82,
Kolhar Industrial Area,
Bidar – 585 403, Karnataka.

Sample ID	MEEPL/LAB/20-21/CA-057	**Sample Received By**	Mr. Siva Sankar
Sample Description	Contaminated Silica Gel	**Sample Condition**	Received in Polythene cover
Sampling Done by	Client	**Analysis Start Date**	09/10/2020
Sample Received Date	09/10/2020	**Analysis End Date**	14/10/2020
Sampling procedure	MEEPL/SOP/LAB/SA-001	**Report Date**	15/10/2020

S. No.	Parameter		Result
1	Physical State		Solid
2	Color		Light Brown
3	Texture		Crystalline
4	Compatibility Test	Is there any violent chemical change (in air) (Normally unstable) (Yes/No)	No
5		Reacts violent with water (Yes/No)	No
6		Generation of toxic fumes with water/acid/basic (Yes /No)	No
7		Forms potentially explosive mixture with water (Yes/No)	No
8		Explosive when subjected to a strong initiating force (Yes/No)	No
9		Explosive at normal temperature & pressure (Yes/No)	No

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Report No: MEEPL/LAB/20-21/CA/R-057

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
10	pH @28.2°C	-	USEPA;9045C,(1995)	**3.36**	4 to 12
11	Loss on drying at 105°C	%	MEEPL/SOP/LAB/SW-002; Issue No.: 00; Issue Date: 02.09.2019	**30.85**	---
12	Loss on Ignition at 550°C (Dry Basis)	%	MEEPL/SOP/LAB/SW-003; Issue No.: 00; Issue Date: 02.09.2019	3.17	<= 20% Non biodegradable <=
13	Flash Point	°C	USEPA;1020A(1992)	>65	65.5
14	Paint Filter Liquid Test	-	USEPA-9095A(1996)	Pass	Pass
15	Bulk Density	g/cc	ASTM D 5057-10,(2017)	**0.60**	---
16	Calorific Value	Cal/gm	IS: 1350 (Part-II),(Reff.2013)	BDL	< 2500
17	Reactive Cyanide	mg/Kg	USEPA9010C(2004)& APHA23rd Edi; 4500 CN-E (2017)	BDL	<250
18	Reactive Sulfide	mg/Kg	USEPA 9030 B (1996)& 9034 (1996)	BDL	<500
19	Ammonical Nitrogen as NH3 (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&APHA 23rd Edition,2017;4500 NH3 B,C	BDL	<1000
20	Ammonical Nitrogen as NH3 (TCLP)	mg/L	APHA 23rd Edition,2017;4500 NH3 B,C	BDL	<50
21	Extractable Organics	%w/w	USEPA-3540C (1996)	BDL	< 4.0
22	Water soluble inorganics	%w/w	APHA 23rd Edi;2540 B&E (2017)	0.56	< 20
23	Water soluble organics	%w/w	APHA 23rd Edi;2540 B&E (2017)	1.59	< 10
24	Zinc as Zn (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	21.6	---
25	Zinc as Zn (WLT)	mg/L	CPCB TSDF Protocol(2010-11)&USEPA-7000B(2007)	0.30	<10
26	Cadmium as Cd (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	0.17	---

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Report No: MEEPL/LAB/20-21/CA/R-057

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
27	Cadmium as Cd (TCLP)	mg/L	USEPA 1311 (1992)(Extraction)&USEPA7000B (2007), AAS	BDL	<1.0
28	Cadmium as Cd (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&USEPA-7000B(2007)	BDL	< 0.2
29	Total Chromium as Cr 3+ (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	0.78	---
30	Chromium as Cr 3+(TCLP)	mg/L	USEPA 1311 (1992)(Extraction)&USEPA7000B-2007	0.08	< 5.0
31	Hexavalent Chromium as Cr6+ (Total)	mg/Kg	USEPA 1998,SW846; 7196 A&APHA;3500 Cr B (2017)	BDL	---
32	Hexavalent Chromium as Cr6+ (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&APHA;3500 Cr B (2017)	BDL	< 0.5
33	Copper as Cu (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	46.0	---
34	Copper as Cu (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&USEPA-7000B(2007)	2.00	<10
35	Nickel as Ni (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	4.59	---
36	Nickel as Ni (WLT)	mg/L	CPCB TSDF Protocol(2010-11)&USEPA-7000B(2007)	0.07	<3.0
37	Lead as Pb (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	4.79	---
38	Lead as Pb (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&USEPA7000B (2007), AAS	0.06	<5.0
39	Lead as Pb (WLT)	mg/L	CPCB TSDFProtocol(2010-11)&USEPA-7000B(2007)	0.04	<2.0
40	Cyanide (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500CN- K	BDL	<2.0
41	Cyanide (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&APHA 23rd Edition,2017; 4500CN- K	BDL	<20
42	Fluoride as F- (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500 F-D	3.31	<50

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Report No: MEEPL/LAB/20-21/CA/R-057

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
43	Nitrate Nitrogen as N (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500 NO3 B	96.9	<30
44	Nitrate Nitrogen as N (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&APHA 23rd Edition,2017; 4500 NO3 B	913	<1000

BDL - Below Detection Limit,
SW 846 -Test methods for Evaluating Solid waste, Physical/chemical methods, USEPA,
IS - Indian Standard,
ASTM - American standard of testing material,
APHA -Standard methods for the examination of water and waste water, 23rd Edition, 2017,
WLT - Water Leaching Test,
TCLP -Toxicity Characteristics Leaching Procedure,
STLC - Solubility Threshold Limit Concentration.

Note:

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End of Report

15/10/2020

Suresh Kumara K M
Chemist
(Laboratory)

15/10/2020

Siva Sankar Ollipilli
Assistant Manager
(Laboratory)

MEEPL

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LABORATORY

Date: 15.10.2020

Report No: MEEPL/LAB/20-21/CA/R-059

To,

Sai Life Sciences Limited,
79-B, 80-A, 80-B, 81-A & 82,
Kolhar Industrial Area,
Bidar – 585 403, Karnataka.

We are here with enclosing the analysis report of **Chemical Sludge from Waste Water Treatment (ETP Sludge)** with Report No.: **MEEPL/LAB/20-21/CA/R-059** and the sample was received on 09/10/2020.

Thanking you,

For Mother Earth Enviro Tech Pvt Ltd

15/10/2020

Authorized Signatory
Siva Sankar Ollipilli
Assistant Manager (Laboratory)

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LABORATORY
TEST REPORT

Date: 15.10.2020

Report No: MEEPL/LAB/20-21/CA/R-059

Waste Generator Details:

Sai Life Sciences Limited,
79-B, 80-A, 80-B, 81-A & 82,
Kolhar Industrial Area,
Bidar – 585 403, Karnataka.

Sample ID	MEEPL/LAB/20-21/CA-059	**Sample Received By**	Mr. Siva Sankar
Sample Description	Chemical Sludge from Waste Water Treatment (ETP Sludge)	**Sample Condition**	Received in Polythene cover
Sampling Done by	Client	**Analysis Start Date**	09/10/2020
Sample Received Date	09/10/2020	**Analysis End Date**	14/10/2020
Sampling procedure	MEEPL/SOP/LAB/SA-001	**Report Date**	15/10/2020

S. No.	Parameter		Result
1	Physical State		Solid
2	Color		Black
3	Texture		Wet Cake
4	Compatibility Test	Is there any violent chemical change (in air) (Normally unstable) (Yes/No)	No
5		Reacts violent with water (Yes/No)	No
6		Generation of toxic fumes with water/acid/basic (Yes /No)	No
7		Forms potentially explosive mixture with water (Yes/No)	No
8		Explosive when subjected to a strong initiating force (Yes/No)	No
9		Explosive at normal temperature & pressure (Yes/No)	No

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(A Division of Chaitra Groups)
An Integrated Management System Certified Company
Quality Management System-ISO 9001:2015
Environmental Management System – ISO 14001:2015
Occupational Health and Safety Management System- ISO 45001:2018
An NABL (ISO/IEC 17025:2017) Accredited Laboratory
TC-8956
Reg. No.: RP01/10468
Site:Plot No.217, 2 nd Phase KIADB Industrial Area, Harohalli, Kanakapura Tq. Ramanagara Dist, Karanataka-562112.
Head Office: Survey No.13,Challaghatta village, Kengeri Hobli, Bengaluru South Taluk,Bengaluru-560074.
Ph. No.: 7338464597, +91 80 26712303, Fax: 080-26712305
Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

Report No: MEEPL/LAB/20-21/CA/R-059

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
10	pH @28.2°C	-	USEPA;9045C,(1995)	8.34	4 to 12
11	Loss on drying at 105°C	%	MEEPL/SOP/LAB/SW-002; Issue No.: 00; Issue Date: 02.09.2019	**86.67**	---
12	Loss on Ignition at 550°C (Dry Basis)	%	MEEPL/SOP/LAB/SW-003; Issue No.: 00; Issue Date: 02.09.2019	**58.59**	<= 20% Non biodegradable <=
13	Flash Point	°C	USEPA;1020A(1992)	>65	65.5
14	Paint Filter Liquid Test	-	USEPA-9095A(1996)	Pass	Pass
15	Bulk Density	g/cc	ASTM D 5057-10,(2017)	**0.92**	---
16	Calorific Value	Cal/gm	IS: 1350 (Part-II),(Reff.2013)	BDL	< 2500
17	Reactive Cyanide	mg/Kg	USEPA9010C(2004)& APHA23rd Edi; 4500 CN-E (2017)	BDL	<250
18	Reactive Sulfide	mg/Kg	USEPA 9030 B (1996)& 9034 (1996)	BDL	<500
19	Ammonical Nitrogen as NH3 (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&APHA 23rd Edition,2017;4500 NH3 B,C	BDL	<1000
20	Ammonical Nitrogen as NH3 (TCLP)	mg/L	APHA 23rd Edition,2017;4500 NH3 B,C	BDL	<50
21	Extractable Organics	%w/w	USEPA-3540C (1996)	BDL	< 4.0
22	Water soluble inorganics	%w/w	APHA 23rd Edi;2540 B&E (2017)	0.36	< 20
23	Water soluble organics	%w/w	APHA 23rd Edi;2540 B&E (2017)	0.83	< 10
24	Zinc as Zn (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	1473	---
25	Zinc as Zn (WLT)	mg/L	CPCB TSDF Protocol(2010-11)&USEPA-7000B(2007)	1.24	<10
26	Cadmium as Cd (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	BDL	---

Report No: MEEPL/LAB/20-21/CA/R-059

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
27	Cadmium as Cd (TCLP)	mg/L	USEPA 1311 (1992)(Extraction)&USEPA7000B (2007), AAS	BDL	<1.0
28	Cadmium as Cd (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&USEPA-7000B(2007)	BDL	< 0.2
29	Total Chromium as Cr 3+ (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	9.73	---
30	Chromium as Cr 3+(TCLP)	mg/L	USEPA 1311 (1992)(Extraction)&USEPA7000B-2007	0.01	< 5.0
31	Hexavalent Chromium as Cr6+ (Total)	mg/Kg	USEPA 1998,SW846; 7196 A&APHA;3500 Cr B (2017)	BDL	---
32	Hexavalent Chromium as Cr6+ (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&APHA;3500 Cr B (2017)	BDL	< 0.5
33	Copper as Cu (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	164	---
34	Copper as Cu (WLT)	mg/L	CPCB TSDF Protocol,(2010-11)&USEPA-7000B(2007)	0.85	<10
35	Nickel as Ni (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	7.26	---
36	Nickel as Ni (WLT)	mg/L	CPCB TSDF Protocol(2010-11)&USEPA-7000B(2007)	0.04	<3.0
37	Lead as Pb (Total)	mg/Kg	USEPA - 3050 B(1996) & 7000B-2007	8.14	---
38	Lead as Pb (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&USEPA7000B (2007), AAS	0.07	<5.0
39	Lead as Pb (WLT)	mg/L	CPCB TSDFProtocol(2010-11)&USEPA-7000B(2007)	0.04	<2.0
40	Cyanide (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500CN- K	BDL	<2.0
41	Cyanide (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&APHA 23rd Edition,2017; 4500CN- K	BDL	<20
42	Fluoride as F- (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500 F-D	0.69	<50

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Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

Report No: MEEPL/LAB/20-21/CA/R-059

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
43	Nitrate Nitrogen as N (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 4500 NO3 B	6.43	<30
44	Nitrate Nitrogen as N (TCLP)	mg/L	USEPA 1311 (1992), (Extraction)&APHA 23rd Edition,2017; 4500 NO3 B	15.4	<1000

BDL - Below Detection Limit,
SW 846 -Test methods for Evaluating Solid waste, Physical/chemical methods, USEPA,
IS - Indian Standard,
ASTM - American standard of testing material,
APHA -Standard methods for the examination of water and waste water, 23rd Edition, 2017,
WLT - Water Leaching Test,
TCLP -Toxicity Characteristics Leaching Procedure,
STLC - Solubility Threshold Limit Concentration.

Note:

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- Any correction invalidates this test report

End of Report

15/10/2020

Suresh Kumara K M
Chemist
(Laboratory)

15/10/2020

Siva Sankar Ollipilli
Assistant Manager
(Laboratory)

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Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

LABORATORY
TEST REPORT

Date: 15.10.2020

Report No: MEEPL/LAB/20-21/CA/R-059A

Waste Generator Details:

Sai Life Sciences Limited,
79-B, 80-A, 80-B, 81-A & 82,
Kolhar Industrial Area,
Bidar – 585 403, Karnataka.

Sample ID	MEEPL/LAB/20-21/CA-059	**Sample Received By**	Mr. Siva Sankar
Sample Description	Chemical Sludge from Waste Water Treatment (ETP Sludge)	**Sample Condition**	Received in Polythene cover
Sampling Done by	Client	**Analysis Start Date**	09/10/2020
Sample Received Date	09/10/2020	**Analysis End Date**	14/10/2020
Sampling procedure	MEEPL/SOP/LAB/SA-001	**Report Date**	15/10/2020

.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
1	Sulfide (TCLP)	mg/Kg	CCR- Appendix II of section 66261 of Title 22 &APHA23rd Edi, 4500 S^2F(2017)	BDL	<5
2	Zinc as Zn(STLC)	mg/L	CCR- Appendix II of section 66261 of Title 22 &USEPA 7000B-2007	39.1	<250
3	Hexavalent Chromium as Cr6+ (STLC)	mg/L	CCR- Appendix II of section 66261 of Title 22&APHA;3500 Cr B (2017)	BDL	< 5.0
4	Copper as Cu (STLC)	mg/L	CCR- Appendix II of section 66261 of Title 22 &USEPA-7000B(2007)	0.30	<25
5	Nickel as Ni (STLC)	mg/L	CCR- Appendix II of section 66261 of Title 22&USEPA7000B (2007), AAS	0.44	<20

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Website: motherearthenviron.com, E-mail: lab@motherearthenviron.com, motherearthenvirontech@gmail.com

Report No: MEEPL/LAB/20-21/CA/R-059A

S.No.	Parameter	Unit	Method	Result	Std. for Landfill Disposal
6	Total Phenols (WLT)	mg/L	CPCB TSDFProtocol(2010- 11) &APHA 23rd Edition,2017; 5530B&D	BDL	<100
7	Fluoride as F- (STLC)	mg/L	CCR- Appendix II of section 66261 of Title 22 & APHA 23rd Edition,2017; 4500 F-D	7.44	<50

BDL - Below Detection Limit,
SW 846 -Test methods for Evaluating Solid waste, Physical/chemical methods, USEPA,
IS - Indian Standard
ASTM - American standard of testing material
APHA -Standard methods for the examination of water and waste water, 23rd Edition, 2017,
WLT - Water Leaching Test
TCLP -Toxicity Characteristics Leaching Procedure
STLC - Solubility Threshold Limit Concentration

Note:

- This Test Report is Continuation to the Report No.: MEEPL/LAB/20-21/CA/R-059
- Reports pertained only to the submitted sample
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- Any correction invalidates this test report

End of Report

15/10/2020
Suresh Kumara K M
Chemist
(Laboratory)

15/10/2020
Siva Sankar Ollipilli
Assistant Manager
(Laboratory)

A Luthra Group Company
GUJARAT ENVIRO PROTECTION &
INFRASTRUCTURE Ltd.
ISO 14001 CERTIFIED

FINGER PRINT ANALYSIS REPORT

Industry Name : SAI LIFE SCIENCES LIMITED

DATE : 18/01/2018

Waste Name : SPENT CARBON

Code: CV2W1S0070

Waste Code: WS00000007

Category Of Waste as Per Moef Schedule :	Schedule 1 : ☐☐ ☐	Schedule 2 : #A _____ #B _____ #C _____ #D _____ #E _____ ©

No	Parameter	Unit	Method	Value
1	Physical State	-	-	SOLID
2	Color	-	-	BLACK
3	Odour	-		MILD
4	Texture	-	-	Powder
5	Water Reactive	-	-	NON REACTIVE
6	Air Reactive		-	NON REACTIVE
7	pH	10 % W/V	USEPA, SW-846; METHOD 9040,9041 AND 9045	4.06
8	Moisture Content (at 105` C)	%	USEPA, SW-846; METHOD 1010 AND 1020	6.5
9	Loss on Ignition (at 550` C)	%	USEPA, SW-846; METHOD 1010 AND 1020	18.31
10	Ash Content (at 800 ` C)	%	USEPA ; SW-846 ,METHOD - 1010 & 1020	80.04
11	Calorific Value	cal/gm	USEPA,SW-846; METHOD 1010 AND 1020 /IS:1359 - 19	2900.06
12	Total Sulfur	%	USEPA ; SW - 846 ,MEHOD - 9010,9011,9012	0
13	Chloride	%	USEPA ; SW - 846 METHOD - 5050	0.95
14	reaction with acid		-	NON REACTIVE
15	Reaction with Alkali		-	NON REACTIVE

BDL : Below Detectable Limit -
Other Heavy Metals Analysis can be carried out as required.

FOR GUJARAT ENVIRO PROTECTION & INFRASTRUCTURE LTD.(UNIT- RANIPET)

Authorised Signatory

Note :

1. This Report is for Privet Use Only And Should Not be Used For Publicity Or Litigation.
2. Authenticity Of This Report Could be Validated With Office Copy at GEPIL.

Unit Location: Plot No. S-60, Phase-III, SIPCOT Industrial Complex, Ranipet-632405, Dist.:Vellore,Tamilnadu Phone:04172-291443
E-mail : ranipet@luthraindia.com
Website : www.gepil.in | www.luthraindia.com

Corporate Office: 252/2, G.I.D.C. Pandesara, Surat - 394221, Gujarat
Phone :+91 261 2890606-7-8 Fax : +91 261 2890600
Regd.office: 370,SVP Road, Shop 8, Cigaretwala Bldg, Opp. CBI, Prathana Samaj, Nr. Harkishandas Hospital, Mumbai - 400004

Annexure-7
Soil quality reports

SHRI KRISHNA AQUA ENGINEERING WORKS
ISO 9001:2015, ISO 45001:2018
Environmental Lab, Pollution Control Consultants
"Shri Krishna" Building, 1st Cross, Pragati Colony,
Vidyanagar, **HUBLI** - 580 021. Tel. : (Lab) 0836-2375678,
Mobile : +91 94480 51534, +91 94800 28018,
E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT

SOIL ANALYSIS REPORT

(Sample Drawn By Industry)

Test Report No : SKAEW/S/2024/EG/JUNE/22	**Report Date : 22.06.2024**
Issued to : M/s. Sai Life Sciences Limited,Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area,Bidar-585403	**Customer reference : Walking customer**
Date of Submission : 17.06.2024	**Date of sample receipt : 18.06.2024**
Sample Nature / Name : Soil Sample	**Analysis start date : 19.06.2024**
Sample Condition : Satisfactory	**Analysis completion date : 22.06.2024**
Sample particulars : Near Admin Block Area	**Sampling Protocol : NA**
Environmental Condition :	

Results

Sl.No	Parameters	Test Result	Unit
1	pH 20% Suspension	7.69	.....
2	Electrical Conductivity 20% Suspension	67	Mmhos/cm
3	Water content	36	%
4	Gravel	40	%
5	Sand	21	%
6	Clay	17	%
7	Silt	13	%
8	Sodium	33	mg/kg
9	Potassium	21	mg/kg
10	Calcium	38	mg/kg
11	Magnesium	32	mg/kg

Reviewed By
(Chemist)
Ribeka

30-June-2024
checked by

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End Of The Report

SHRI KRISHNA AQUA ENGINEERING WORKS
ISO 9001:2015, ISO 45001:2018
Environmental Lab, Pollution Control Consultants
"Shri Krishna" Building, 1st Cross, Pragati Colony, Vidyanagar, HUBLI - 580 021. Tel. : (Lab) 0836-2375678, Mobile : +91 94480 51534, +91 94800 28018,
E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT

SOIL ANALYSIS REPORT
(Sample Drawn By Industry)

Test Report No : SKAEW/S/2024/EG/JUNE/23	Report Date : 22.06.2024
Issued to : M/s. Sai Life Sciences Limited,Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area,Bidar-585403	Customer reference : Walking customer
Date of Submission : 17.06.2024	Date of sample receipt : 18.06.2024
Sample Nature / Name : Soil Sample	Analysis start date : 19.06.2024
Sample Condition : Satisfactory	Analysis completion date : 22.06.2024
Sample particulars : Near Boiler Area	Sampling Protocol : NA
Environmental Condition :	

Results

Sl.No	Parameters	Test Result	Unit
1	pH 20% Suspension	7.18	.....
2	Electrical Conductivity 20% Suspension	61	Mmhos/cm
3	Water content	28	%
4	Gravel	37	%
5	Sand	24	%
6	Clay	22	%
7	Silt	19	%
8	Sodium	27	mg/kg
9	Potassium	31	mg/kg
10	Calcium	26	mg/kg
11	Magnesium	29	mg/kg

Reviewed By
(Chemist)
Ribeka

30-June-2024

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End Of The Report

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E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT

SOIL ANALYSIS REPORT

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Test Report No : SKAEW/S/2024/EG/JUNE/24	**Report Date : 22.06.2024**
Issued to : M/s. Sai Life Sciences Limited,Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area,Bidar-585403	**Customer reference : Walking customer**
Date of Submission : 17.06.2024	**Date of sample receipt : 18.06.2024**
Sample Nature / Name : Soil Sample	**Analysis start date : 19.06.2024**
Sample Condition : Satisfactory	**Analysis completion date : 22.06.2024**
Sample particulars : Near ETP Area	**Sampling Protocol : NA**
Environmental Condition :	

Results

Sl.No	Parameters	Test Result	Unit
1	pH 20% Suspension	7.02	.....
2	Electrical Conductivity 20% Suspension	71	Mmhos/cm
3	Water content	30	%
4	Gravel	35	%
5	Sand	26	%
6	Clay	21	%
7	Silt	16	%
8	Sodium	28	mg/kg
9	Potassium	27	mg/kg
10	Calcium	33	mg/kg
11	Magnesium	23	mg/kg

Reviewed By
(Chemist)
Ribeka

30-June-2024
checked by

End Of The Report

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

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E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT

SOIL ANALYSIS REPORT

(Sample Drawn By Industry)

Test Report No : SKAEW/S/2024/EG/JUNE/25	**Report Date : 22.06.2024**
Issued to : M/s. Sai Life Sciences Limited,Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area,Bidar-585403	**Customer reference : Walking customer**
Date of Submission : 17.06.2024	**Date of sample receipt : 18.06.2024**
Sample Nature / Name : Soil Sample	**Analysis start date : 19.06.2024**
Sample Condition : Satisfactory	**Analysis completion date : 22.06.2024**
Sample particulars : Near Production Block Area-8	**Sampling Protocol : NA**
Environmental Condition :	

Results

Sl.No	Parameters	Test Result	Unit
1	pH 20% Suspension	7.62	.....
2	Electrical Conductivity 20% Suspension	77	Mmhos/cm
3	Water content	25	%
4	Gravel	31	%
5	Sand	34	%
6	Clay	24	%
7	Silt	19	%
8	Sodium	21	mg/kg
9	Potassium	27	mg/kg
10	Calcium	30	mg/kg
11	Magnesium	23	mg/kg

Reviewed By
(Chemist)
Ribeka

30-June-2024
Checked by

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End Of The Report

SHRI KRISHNA AQUA ENGINEERING WORKS
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E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT

SOIL ANALYSIS REPORT

(Sample Drawn By Industry)

Test Report No : SKAEW/S/2024/EG/DEC/22	Report Date : 17.12.2024
Issued to : M/s. Sai Life Sciences Limited,Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area,Bidar-585403	Customer reference : Walking customer
Date of Submission : 12.12.2024	Date of sample receipt : 13.12.2024
Sample Nature / Name : Soil Sample	Analysis start date : 14.12.2024
Sample Condition : Satisfactory	Analysis completion date : 17.12.2024
Sample particulars : Near Admin Block Area	Sampling Protocol : NA
Environmental Condition :	

Results

Sl.No	Parameters	Test Result	Unit
1	pH 20% Suspension	7.42	.....
2	Electrical Conductivity 20% Suspension	64	Mmhos/cm
3	Water content	33	%
4	Gravel	42	%
5	Sand	23	%
6	Clay	19	%
7	Silt	15	%
8	Sodium	30	mg/kg
9	Potassium	20	mg/kg
10	Calcium	35	mg/kg
11	Magnesium	34	mg/kg

Reviewed By
(Chemist)
Ribeka

30-Dec-24
checked by

End Of The Report

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

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Date of Submission : 12.12.2024	Date of sample receipt : 13.12.2024
Sample Nature / Name : Soil Sample	Analysis start date : 14.12.2024
Sample Condition : Satisfactory	Analysis completion date : 17.12.2024
Sample particulars : Near Boiler Area	Sampling Protocol : NA
Environmental Condition :	

Results

Sl.No	Parameters	Test Result	Unit
1	pH 20% Suspension	7.11	.....
2	Electrical Conductivity 20% Suspension	64	Mmhos/cm
3	Water content	31	%
4	Gravel	39	%
5	Sand	28	%
6	Clay	24	%
7	Silt	21	%
8	Sodium	30	mg/kg
9	Potassium	28	mg/kg
10	Calcium	29	mg/kg
11	Magnesium	27	mg/kg

Reviewed By
(Chemist)
Ribeka

30-Dec-24
checked by

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

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Mobile : +91 94480 51534, +91 94800 28018,
E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT

SOIL ANALYSIS REPORT
(Sample Drawn By Industry)

Test Report No : SKAEW/S/2024/EG/DEC/24	Report Date : 17.12.2024
Issued to : M/s. Sai Life Sciences Limited,Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area,Bidar-585403	Customer reference : Walking customer
Date of Submission : 12.12.2024	Date of sample receipt : 13.12.2024
Sample Nature / Name : Soil Sample	Analysis start date : 14.12.2024
Sample Condition : Satisfactory	Analysis completion date : 17.12.2024
Sample particulars : Near ETP Area	Sampling Protocol : NA
Environmental Condition :	

Results

Sl.No	Parameters	Test Result	Unit
1	pH 20% Suspension	7.06	.....
2	Electrical Conductivity 20% Suspension	69	Mmhos/cm
3	Water content	33	%
4	Gravel	31	%
5	Sand	28	%
6	Clay	23	%
7	Silt	18	%
8	Sodium	26	mg/kg
9	Potassium	29	mg/kg
10	Calcium	31	mg/kg
11	Magnesium	25	mg/kg

Reviewed By
(Chemist)
Ribeka

30-Dec-24
Checked By

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End Of The Report

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Environmental Lab, Pollution Control Consultants
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Mobile : +91 94480 51534, +91 94800 28018,
E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT

SOIL ANALYSIS REPORT
(Sample Drawn By Industry)

Test Report No : SKAEW/S/2024/EG/DEC/25	Report Date : 17.12.2024
Issued to : M/s. Sai Life Sciences Limited,Unit-4, 80-A, 80-B, 81-A & 82, Kolhar Industrial Area,Bidar-585403	Customer reference : Walking customer
Date of Submission : 12.12.2024	Date of sample receipt : 13.12.2024
Sample Nature / Name : Soil Sample	Analysis start date : 14.12.2024
Sample Condition : Satisfactory	Analysis completion date : 17.12.2024
Sample particulars : Near Production Block Area-8	Sampling Protocol : NA
Environmental Condition :	

Results

Sl.No	Parameters	Test Result	Unit
1	pH 20% Suspension	7.22	.....
2	Electrical Conductivity 20% Suspension	73	Mmhos/cm
3	Water content	28	%
4	Gravel	34	%
5	Sand	37	%
6	Clay	26	%
7	Silt	21	%
8	Sodium	19	mg/kg
9	Potassium	25	mg/kg
10	Calcium	31	mg/kg
11	Magnesium	24	mg/kg

Reviewed By
(Chemist)
Ribeka

30-Dec-24
checked by

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End Of The Report

Annexure-8

Piezo well quality reports

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TEST REPORT
WATER ANALYSIS REPORT
(SAMPLE DRAWN BY INDUSTRY)

Test Report No : SKAEW/W/2024/EG/MAY/27		**Report Date :**	**14.05.2023**
Issued to : M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar IndustrialArea,Bidar-585403		**Customer reference :**	**Walking customer**
Date of Submission :	**08.05.2024**	**Date of sample receipt :**	**09.05.2024**
Sample Nature / Name :	**Bore well water**	**Analysis start date :**	**10.05.2024**
Sample Condition :	**Satisfactory**	**Analysis completion date :**	**14.05.2023**
Sample particulars :	**Bore well water - 1**	**Sampling protocol : APHA 22nd Edition**	
Environmental Condition :	**—**		

Results

Sl.No	Parameters	Protocol	Unit	Result	Standard : IS-10500 :2012	
					DL	PL
01	pH Value	APHA 22nd Edition 4500-H+, B	....	7.82	6.5-8.5	No Relaxation
02	Conductivity	APHA 22nd Edition 2510, B	µ mhos	815	.....	....
03	Turbidity	APHA 22nd Edition 2130, B	NTU	Nil	1	5.0
04	Total Hardness	APHA 22nd Edition 2340 C	mg/L	265	200	600
05	Total Alkalinity	APHA 22nd Edition 2320, B	mg/L	98	200	600
06	Chlorides (Cl)	APHA 22nd Edition 4500-Cl, B	mg/l	231	250	1000
07	Fluoride as F	APHA 22nd Edition 4500 F-D	mg/L	0.83	1.0	1.5
08	Iron (Fe)	APHA 22nd Edition 3500 B	mg/l	0.17	0.30	No Relaxation
09	Total dissolved Solids	APHA 22nd Edition 2540 C	mg/l	576	500	2000
10	Nitrates as NO_3^-	APHA 22nd Edition 4500 b	mg/l	34	45	No Relaxation
11	Sulphates as SO4	APHA 22nd Edition 4500 c	mg/l	68	200	400
12	Calcium as Ca	APHA 22nd Edition 3500 B	mg/l	69	75	200
13	Magnesium asMg	APHA 22nd Edition 3500 Mg B	mg/l	20	30	200

Reviewed By
(Chemist)
Ribeka

Checked by
20-MAY-2024

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End Of The Report

* All Parameters are within the limits

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E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT

WATER ANALYSIS REPORT

(SAMPLE DRAWN BY INDUSTRY)

Test Report No : SKAEW/W/2024/EG/MAY/28		Report Date :	14.05.2024
Issued to : M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar IndustrialArea,Bidar-585403		Customer reference :	Walking customer
Date of Submission :	08.05.2024	Date of sample receipt :	09.05.2024
Sample Nature / Name :	Bore well water	Analysis start date :	10.05.2024
Sample Condition :	Satisfactory	Analysis completion date :	14.05.2024
Sample particulars :	Bore well water - 2	Sampling protocol : APHA 22nd Edition	
Environmental Condition :	----		

Results

Sl.No	Parameters	Protocol	Unit	Result	Standard : IS-10500 :2012	
					DL	PL
01	pH Value	APHA 22nd Edition 4500-H+, B	....	7.64	6.5-8.5	No Relaxation
02	Conductivity	APHA 22nd Edition 2510, B	µ mhos	854	.....	....
03	Turbidity	APHA 22nd Edition 2130, B	NTU	Nil	1	5.0
04	Total Hardness	APHA 22nd Edition 2340 C	mg/l	286	200	600
05	Total Alkalinity	APHA 22nd Edition 2320, B	mg/l	54	200	600
06	Chlorides (Cl)	APHA 22nd Edition 4500-Cl, B	mg/l	228	250	1000
07	Fluoride as F	APHA 22nd Edition 4500 F-D	mg/l	0.52	1.0	1.5
08	Iron (Fe)	APHA 22nd Edition 3500 B	mg/l	0.17	0.30	No Relaxation
09	Total dissolved Solids	APHA 22nd Edition 2540 C	mg/L	547	500	2000
10	Nitrates as NO_3^-	APHA 22nd Edition 4500 b	mg/l	32	45	No Relaxation
11	Sulphates as SO4	APHA 22nd Edition 4500 c	mg/l	46	200	400
12	Calcium as Ca	APHA 22nd Edition 3500 B	mg/L	52	75	200
13	Magnesium asMg	APHA 22nd Edition 3500 Mg B	mg/L	21	30	200

Reviewed By
(Chemist)
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Checked by

20-MAY-2024

End Of The Report

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

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TEST REPORT

WATER ANALYSIS REPORT

(SAMPLE DRAWN BY INDUSTRY)

Test Report No : SKAEW/W/2024/EG/MAY/29		**Report Date :**	**14.05.2024**
Issued to : M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar IndustrialArea,Bidar-585403		**Customer reference :**	**Walking customer**
Date of Submission :	**08.05.2024**	**Date of sample receipt :**	**09.05.2024**
Sample Nature / Name :	**Bore well water**	**Analysis start date :**	**10.05.2024**
Sample Condition :	**Satisfactory**	**Analysis completion date :**	**14.05.2024**
Sample particulars :	**Bore well water - 3**	**Sampling protocol : APHA 22nd Edition**	
Environmental Condition :	**——**		

Results

Sl.No	Parameters	Protocol	Unit	Result	Standard : IS-10500 :2012	
					DL	PL
01	pH Value	APHA 22nd Edition 4500-H+, B	....	7.44	6.5-8.5	No Relaxation
02	Conductivity	APHA 22nd Edition 2510, B	µ mhos	876	.....	....
03	Turbidity	APHA 22nd Edition 2130, B	NTU	Nil	1	5.0
04	Total Hardness	APHA 22nd Edition 2340 C	mg/l	302	200	600
05	Total Alkalinity	APHA 22nd Edition 2320, B	mg/l	82	200	600
06	Chlorides (Cl)	APHA 22nd Edition 4500-Cl, B	mg/l	211	250	1000
07	Fluoride as F	APHA 22nd Edition 4500 F-D	mg/l	0.51	1.0	1.5
08	Iron (Fe)	APHA 22nd Edition 3500 B	mg/l	0.23	0.30	No Relaxation
09	Total dissolved Solids	APHA 22nd Edition 2540 C	mg/l	485	500	2000
10	Nitrates as NO_3^-	APHA 22nd Edition 4500 b	mg/l	31	45	No Relaxation
11	Sulphates as SO4	APHA 22nd Edition 4500 c	mg/l	43	200	400
12	Calcium as Ca	APHA 22nd Edition 3500 B	mg/l	58	75	200
13	Magnesium asMg	APHA 22nd Edition 3500 Mg B	mg/l	12	30	200

Reviewed By
(Chemist)
Ribeka

Checked by

20-MAY-2024

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End Of The Report

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E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT
WATER ANALYSIS REPORT
(SAMPLE DRAWN BY INDUSTRY)

Test Report No : SKAEW/W/2024/EG/MAY/25		**Report Date :**	**14.05.2024**
Issued to : M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar IndustrialArea,Bidar-585403		**Customer reference :**	**Walking customer**
Date of Submission :	**08.05.2024**	**Date of sample receipt :**	**09.05.2024**
Sample Nature / Name :	**Bore well water**	**Analysis start date :**	**10.05.2024**
Sample Condition :	**Satisfactory**	**Analysis completion date :**	**14.05.2024**
Sample particulars :	**Piezo well-1**		
Environmental Condition :	**----**	**Sampling protocol : APHA 22nd Edition**	

Results

Sl.No	Parameters	Protocol	Unit	Result	Standard : IS-10500 :2012	
					DL	PL
01	pH Value	APHA 22nd Edition 4500-H+, B	....	7.12	6.5-8.5	No Relaxation
02	Conductivity	APHA 22nd Edition 2510, B	µ mhos	869	.....	....
03	Turbidity	APHA 22nd Edition 2130, B	NTU	Nil	1	5.0
04	Total Hardness	APHA 22nd Edition 2340 C	mg/l	268	200	600
05	Total Alkalinity	APHA 22nd Edition 2320, B	mg/l	94	200	600
06	Chlorides (Cl)	APHA 22nd Edition 4500-Cl, B	mg/l	176	250	1000
07	Fluoride as F	APHA 22nd Edition 4500 F-D	mg/l	0.71	1.0	1.5
08	Iron (Fe)	APHA 22nd Edition 3500 B	mg/l	0.14	0.30	No Relaxation
09	Total dissolved Solids	APHA 22nd Edition 2540 C	mg/l	542	500	2000
10	Nitrates as NO_3^-	APHA 22nd Edition 4500 b	mg/l	28	45	No Relaxation
11	Sulphates as SO4	APHA 22nd Edition 4500 c	mg/L	53	200	400
12	Calcium as Ca	APHA 22nd Edition 3500 B	mg/l	42	75	200
13	Magnesium asMg	APHA 22nd Edition 3500 Mg B	mg/l	17	30	200

Checked by
20-MAY-2024

Reviewed By
(Chemist)
Ribeka

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End Of The Report

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TEST REPORT
WATER ANALYSIS REPORT
(SAMPLE DRAWN BY INDUSTRY)

Test Report No : SKAEW/W/2024/EG/MAY/26		**Report Date :**	**14.05.2023**
Issued to : M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar IndustrialArea,Bidar-585403		**Customer reference :**	**Walking customer**
Date of Submission :	**08.05.2024**	**Date of sample receipt :**	**09.05.2023**
Sample Nature / Name :	**Bore well water**	**Analysis start date :**	**10.05.2023**
Sample Condition :	**Satisfactory**	**Analysis completion date :**	**14.05.2023**
Sample particulars :	**Piezo well - 2**	**Sampling protocol : APHA 22nd Edition**	
Environmental Condition :	**----**		

Results

Sl.No	Parameters	Protocol	Unit	Result	Standard : IS-10500 :2012	
					DL	PL
01	pH Value	APHA 22nd Edition 4500-H*, B	....	7.52	6.5-8.5	No Relaxation
02	Conductivity	APHA 22nd Edition 2510, B	µ mhos	805	.....	....
03	Turbidity	APHA 22nd Edition 2130, B	NTU	Nil	1	5.0
04	Total Hardness	APHA 22nd Edition 2340 C	mg/l	235	200	600
05	Total Alkalinity	APHA 22nd Edition 2320, B	mg/l	76	200	600
06	Chlorides (Cl)	APHA 22nd Edition 4500-Cl, B	mg/L	231	250	1000
07	Fluoride as F	APHA 22nd Edition 4500 F-D	mg/L	0.63	1.0	1.5
08	Iron (Fe)	APHA 22nd Edition 3500 B	mg/l	0.25	0.30	No Relaxation
09	Total dissolved Solids	APHA 22nd Edition 2540 C	mg/l	537	500	2000
10	Nitrates as NO_3^-	APHA 22nd Edition 4500 b	mg/L	30	45	No Relaxation
11	Sulphates as SO4	APHA 22nd Edition 4500 c	mg/L	62	200	400
12	Calcium as Ca	APHA 22nd Edition 3500 B	mg/l	64	75	200
13	Magnesium asMg	APHA 22nd Edition 3500 Mg B	mg/L	27	30	200

Checked by
20-MAY-2024

Reviewed By
(Chemist)
Ribeka

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End Of The Report

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E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT
WATER ANALYSIS REPORT
(SAMPLE DRAWN BY INDUSTRY)

Test Report No : SKAEW/W/2024/EG/NOV/29		Report Date :	18.11.2024
Issued to : M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar IndustrialArea,Bidar-585403		Customer reference :	Walking customer
Date of Submission :	13.11.2024	Date of sample receipt :	14.11.2024
Sample Nature / Name :	Bore well water	Analysis start date :	15.11.2024
Sample Condition :	Satisfactory	Analysis completion date :	18.11.2024
Sample particulars :	Piezo well-1	Sampling protocol : APHA 22nd Edition	
Environmental Condition :	-----		

Results

Sl.No	Parameters	Protocol	Unit	Result	Standard : IS-10500 :2012	
					DL	PL
01	pH Value	APHA 22nd Edition 4500-H+, B	....	7.32	6.5-8.5	No Relaxation
02	Conductivity	APHA 22nd Edition 2510, B	µ mhos	874	.....	....
03	Turbidity	APHA 22nd Edition 2130, B	NTU	Nil	1	5.0
04	Total Hardness	APHA 22nd Edition 2340 C	mg/L	276	200	600
05	Total Alkalinity	APHA 22nd Edition 2320, B	mg/L	91	200	600
06	Chlorides (Cl)	APHA 22nd Edition 4500-Cl, B	mg/L	181	250	1000
07	Fluoride as F	APHA 22nd Edition 4500 F-D	mg/L	0.76	1.0	1.5
08	Iron (Fe)	APHA 22nd Edition 3500 B	mg/L	0.16	0.30	No Relaxation
09	Total dissolved Solids	APHA 22nd Edition 2540 C	mg/L	539	500	2000
10	Nitrates as NO_3^-	APHA 22nd Edition 4500 b	mg/L	26	45	No Relaxation
11	Sulphates as SO4	APHA 22nd Edition 4500 c	mg/L	51	200	400
12	Calcium as Ca	APHA 22nd Edition 3500 B	mg/L	48	75	200
13	Magnesium asMg	APHA 22nd Edition 3500 Mg B	mg/L	19	30	200

Reviewed By
(Chemist)
Ribeka S

29-NOV-24
checked by
End of the Report

R.M.Bengeri

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

* All Parameters are with'in limits

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E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT

WATER ANALYSIS REPORT

(SAMPLE DRAWN BY INDUSTRY)

Test Report No : SKAEW/W/2024/EG/NOV/30		**Report Date :**	**18.11.2024**
Issued to : M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar IndustrialArea,Bidar-585403		**Customer reference :**	**Walking customer**
Date of Submission :	**13.11.2024**	**Date of sample receipt :**	**14.11.2024**
Sample Nature / Name :	**Bore well water**	**Analysis start date :**	**15.11.2024**
Sample Condition :	**Satisfactory**	**Analysis completion date :**	**18.11.2024**
Sample particulars :	**Piezo well - 2**	**Sampling protocol : APHA 22nd Edition**	
Environmental Condition :	**-----**		

Results

Sl.No	Parameters	Protocol	Unit	Result	Standard : IS-10500 :2012	
					DL	PL
01	pH Value	APHA 22nd Edition 4500-H*, B	....	7.45	6.5-8.5	No Relaxation
02	Conductivity	APHA 22nd Edition 2510, B	µ mhos	812	.....	....
03	Turbidity	APHA 22nd Edition 2130, B	NTU	Nil	1	5.0
04	Total Hardness	APHA 22nd Edition 2340 C	mg/L	243	200	600
05	Total Alkalinity	APHA 22nd Edition 2320, B	mg/L	71	200	600
06	Chlorides (Cl)	APHA 22nd Edition 4500-Cl, B	mg/L	245	250	1000
07	Fluoride as F	APHA 22nd Edition 4500 F-D	mg/L	0.59	1.0	1.5
08	Iron (Fe)	APHA 22nd Edition 3500 B	mg/L	0.22	0.30	No Relaxation
09	Total dissolved Solids	APHA 22nd Edition 2540 C	mg/L	543	500	2000
10	Nitrates as NO_3^-	APHA 22nd Edition 4500 b	mg/L	33	45	No Relaxation
11	Sulphates as SO4	APHA 22nd Edition 4500 c	mg/L	60	200	400
12	Calcium as Ca	APHA 22nd Edition 3500 B	mg/L	63	75	200
13	Magnesium asMg	APHA 22nd Edition 3500 Mg B	mg/L	28	30	200

Reviewed By
(Chemist)
Ribeka S

29-NOV-24
checked by

R.H.Bengeri

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End of the Report

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E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT
WATER ANALYSIS REPORT
(SAMPLE DRAWN BY INDUSTRY)

Test Report No : SKAEW/W/2024/EG/NOV/31		Report Date :	18.11.2024
Issued to : M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar IndustrialArea,Bidar-585403		Customer reference :	Walking customer
Date of Submission :	13.11.2024	Date of sample receipt :	14.11.2024
Sample Nature / Name :	Bore well water	Analysis start date :	15.11.2024
Sample Condition :	Satisfactory	Analysis completion date :	18.11.2024
Sample particulars :	Bore well water - 1	Sampling protocol : APHA 22nd Edition	
Environmental Condition :	-----		

Results

Sl.No	Parameters	Protocol	Unit	Result	Standard : IS-10500 :2012	
					DL	PL
01	pH Value	APHA 22nd Edition 4500-H*, B	....	7.61	6.5-8.5	No Relaxation
02	Conductivity	APHA 22nd Edition 2510, B	µ mhos	824	.....	....
03	Turbidity	APHA 22nd Edition 2130, B	NTU	Nil	1	5.0
04	Total Hardness	APHA 22nd Edition 2340 C	mg/L	255	200	600
05	Total Alkalinity	APHA 22nd Edition 2320, B	mg/L	92	200	600
06	Chlorides (Cl)	APHA 22nd Edition 4500-Cl, B	mg/L	240	250	1000
07	Fluoride as F	APHA 22nd Edition 4500 F-D	mg/L	0.81	1.0	1.5
08	Iron (Fe)	APHA 22nd Edition 3500 B	mg/L	0.18	0.30	No Relaxation
09	Total dissolved Solids	APHA 22nd Edition 2540 C	mg/L	556	500	2000
10	Nitrates as NO_3^-	APHA 22nd Edition 4500 b	mg/L	31	45	No Relaxation
11	Sulphates as SO4	APHA 22nd Edition 4500 c	mg/L	69	200	400
12	Calcium as Ca	APHA 22nd Edition 3500 B	mg/L	71	75	200
13	Magnesium asMg	APHA 22nd Edition 3500 Mg B	mg/L	22	30	200

Reviewed By
(Chemist)
Ribeka S

29-Nov-24
checked by

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End of the Report

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"Shri Krishna" Building, 1st Cross, Pragati Colony, Vidyanagar, **HUBLI** - 580 021. Tel. : (Lab) 0836-2375678, Mobile : +91 94480 51534, +91 94800 28018,
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TEST REPORT

WATER ANALYSIS REPORT

(SAMPLE DRAWN BY INDUSTRY)

Test Report No : SKAEW/W/2024/EG/NOV/32		**Report Date :**	**18.11.2024**
Issued to : M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar IndustrialArea,Bidar-585403		**Customer reference :**	**Walking customer**
Date of Submission :	**13.11.2024**	**Date of sample receipt :**	**14.11.2024**
Sample Nature / Name :	**Bore well water**	**Analysis start date :**	**15.11.2024**
Sample Condition :	**Satisfactory**	**Analysis completion date :**	**18.11.2024**
Sample particulars :	**Bore well water - 2**	**Sampling protocol : APHA 22nd Edition**	
Environmental Condition :	**-----**		

Results

Sl.No	Parameters	Protocol	Unit	Result	Standard : IS-10500 :2012	
					DL	PL
01	pH Value	APHA 22nd Edition 4500-H*, B	....	7.57	6.5-8.5	No Relaxation
02	Conductivity	APHA 22nd Edition 2510, B	µ mhos	862	.....	....
03	Turbidity	APHA 22nd Edition 2130, B	NTU	Nil	1	5.0
04	Total Hardness	APHA 22nd Edition 2340 C	mg/L	293	200	600
05	Total Alkalinity	APHA 22nd Edition 2320, B	mg/L	51	200	600
06	Chlorides (Cl)	APHA 22nd Edition 4500-Cl, B	mg/L	234	250	1000
07	Fluoride as F	APHA 22nd Edition 4500 F-D	mg/L	0.50	1.0	1.5
08	Iron (Fe)	APHA 22nd Edition 3500 B	mg/L	0.15	0.30	No Relaxation
09	Total dissolved Solids	APHA 22nd Edition 2540 C	mg/L	552	500	2000
10	Nitrates as NO_3^-	APHA 22nd Edition 4500 b	mg/L	31	45	No Relaxation
11	Sulphates as SO4	APHA 22nd Edition 4500 c	mg/L	44	200	400
12	Calcium as Ca	APHA 22nd Edition 3500 B	mg/L	51	75	200
13	Magnesium asMg	APHA 22nd Edition 3500-Mg B	mg/L	20	30	200

Reviewed By
(Chemist)
Ribeka S

29-NOV-24
Checked by

End of the Report

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

* All Parameters are within limits

SHRI KRISHNA AQUA ENGINEERING WORKS
ISO 9001:2015, ISO 45001:2018
MoEFCC Recognized, NABL Accredited Laboratory.
Environmental Lab, Pollution Control Consultants
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E-mail - radhabengeri@gmail.com, krishnapandhari@gmail.com

TEST REPORT
WATER ANALYSIS REPORT
(SAMPLE DRAWN BY INDUSTRY)

Test Report No : SKAEW/W/2024/EG/NOV/33		Report Date :	18.11.2024
Issued to : M/s. Sai Life Sciences Limited, Unit-4, 80-A, 80-B, 81-A & 82, Kolhar IndustrialArea,Bidar-585403		Customer reference :	Walking customer
Date of Submission :	13.11.2024	Date of sample receipt :	14.11.2024
Sample Nature / Name :	Bore well water	Analysis start date :	15.11.2024
Sample Condition :	Satisfactory	Analysis completion date :	18.11.2024
Sample particulars :	Bore well water - 3	Sampling protocol : APHA 22nd Edition	
Environmental Condition :	-----		

Results

Sl.No	Parameters	Protocol	Unit	Result	Standard : IS-10500 :2012	
					DL	PL
01	pH Value	APHA 22nd Edition 4500-H*, B	....	7.38	6.5-8.5	No Relaxation
02	Conductivity	APHA 22nd Edition 2510, B	µ mhos	862	.....	....
03	Turbidity	APHA 22nd Edition 2130, B	NTU	Nil	1	5.0
04	Total Hardness	APHA 22nd Edition 2340 C	mg/L	311	200	600
05	Total Alkalinity	APHA 22nd Edition 2320, B	mg/L	85	200	600
06	Chlorides (Cl)	APHA 22nd Edition 4500-Cl, B	mg/L	221	250	1000
07	Fluoride as F	APHA 22nd Edition 4500 F-D	mg/L	0.53	1.0	1.5
08	Iron (Fe)	APHA 22nd Edition 3500 B	mg/L	0.24	0.30	No Relaxation
09	Total dissolved Solids	APHA 22nd Edition 2540 C	mg/L	481	500	2000
10	Nitrates as NO_3^-	APHA 22nd Edition 4500 b	mg/L	33	45	No Relaxation
11	Sulphates as SO4	APHA 22nd Edition 4500 c	mg/L	45	200	400
12	Calcium as Ca	APHA 22nd Edition 3500 B	mg/L	59	75	200
13	Magnesium asMg	APHA 22nd Edition 3500 Mg B	mg/L	14	30	200

Reviewed By
(Chemist)
Ribeka S

29-NOV-24
checked by

Authorised Signatory
(Technical Manager)
Mrs. Radha M Bengeri

End of the Report

* All Parameters are with in limits

Annexure-9

OCEMS related

Flow meter, SPM, Sox and NOx sensors calibration certificates

CALIBRATION CERTIFICATE

Certificate No: NKSS/CEMS/SLSL/2024/04 **Date of Issue: 21-05-2024**
Customer : M/s. Sai Life Sciences Limited, Bidar, Karnataka.

Instrument Details:

Instrument: Online Stack SPM Analyzer
Make : Forbes Marshall
Model : DCEM 21XX
Serial No. : FMDCEM21XX 20131 RCU

Station Name : 10 TPH Boiler
Date of Calibration : 19-05-2024
Due Date : 18-05-2025

Calibration Details:(Test Data)

Calibration Date	Zero % Opacity	100% Opacity	Remarks
19-05-2024	1.1 %	99.5%	Dust monitor model no DCEM 21XX is calibrated successfully

Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Operational Checks: -

Normalizing inputs	Temperature	**Ok**	Serial Comms.	**Ok**	Plant Status	**Ok**
	Span Check 100 %	**Ok**	Data Valid	**Ok**	Contact	**Ok**
	Alarm Level 1&2	**Ok**	Alarm Led	**Ok**		

M. Venkatesh

Calibrated By:
Venkatesh
Sr. Engineer - Service

NK SQUARE SOLUTIONS

T. P. Kishore

Reviewed By:
Prabu Kishore
Asst. Manager- Service

CALIBRATION CERTIFICATE

CERTIFICATE NO		**NKSS/FLOW/SLSL/2024/01**	
CUSTOMER / END USER		**M/s. Sai Life Sciences Limited**	
LOCATION/STATION NAME		**RO Permeate Outlet**	
Date of Cal.	18-05-24	**Next Cal. Date**	**17-05-25**
SERIAL NUMBER	I5405560	**INSTRUMENT**	MAGNATIC FLOW METER
Make & Model	OPTIFLUX 4000	**CONVERTER**	IFC050
TYPE	INTIGRAL/EXTERNAL	**CAL. METHOD**	ELECTRONIC SIMULATER
DN SIZE in MM	50	**GKL VALUE**	4.495
FLOW RATE	25 m3/hr	**COMMUNICATIONS**	RS485, 4-20 mA, Pulse

This is to certify that the instrument described above was calibrated with our facilities and according to the manufacturer's procedures with electronic simulator

Switch Position	Calculated Current Output In mA	Calculated Flow Reading In m3/Hr	Observed Flow Reading In m3/Hr	Deviation %	Accepted Dev.In %
0	0.00	0.00	0.00	0.00	0
A	5.55	2.42	2.41	0.46	±0.4
B	7.10	4.84	4.83	0.25	±0.4
C	10.20	9.68	9.70	-0.16	±0.4
D	19.49	24.21	24.22	-0.04	±0.4

This Calibration of the sensor is checked several times over several minutes of testing. The calibration dates are entered with the serial number, & customer details in our permanent calibration database.

Note: This Instrument is calibrated with reference to MagFlow Simulator MS1 for Electromagnetic Flow meter (Krohne).

Authorized by

NK SQUARE SOLUTIONS

Calibration done by:

Venkatesh

Venkatesh

NK SQUARE SOLUTIONS

ANNEXURE-09

CAL-NKSS-232256

CALIBRATION CERTIFICATE

Certificate No: NKSS/CEMS/SLSL/2025/05 **Date of Issue: 03-01-2025**
Customer : Sai Life Sciences Limited, Bidar, Karnataka.

Instrument Details:

Instrument : Online stack gas analyzer (SO2, NOx, O2)
Make : Horiba., Japan.
Model : CMA-5400
Serial No : TH0HGVBA

Station Name: 10 TPH Boiler
Date of Calibration: 02-01-2025
Due Date: 01-01-2026

Calibration gas details:

NO gas : 807 PPM NO, Balance N2
SO2 gas :769.7 PPM SO2, Balance N2
N2 gas : 99.99% purity

Details	N2 Gas Cylinder	No Gas Cylinder	SO2 Gas Cylinder
S. No	H1D10A-378587	426014	426024
Expiry date	12-01-2025	05-01-2025	25-01-2025

Calibration Details:

	Zero Calibration			Span Calibration		
Parameter	Standard Concentration	Measured Value	% of Deviation	Standard Concentration	Measured Value	% of Deviation
NO	0 PPM	0 PPM	0	807 PPM	815 PPM	0.98
SO2	0 PPM	0 PPM	0	769.7 PPM	775 PPM	0.68

Accepted Tolerance: ±2 %

Results: The calibration of above instrument is performed and it meets the acceptable criteria.

Calibrated By:
Venkatesh
Engineer- Service

NK SQUARE SOLUTIONS

Reviewed By:
Prabhu Kishore
Asst. Manager- Service