



NATCO PHARMA LIMITED

Regd Off: 'NATCO HOUSE', Road No. 2, Banjara Hills, Hyderabad-500 034. Telangana, INDIA
Tel : +91 40 23547532, Fax : +91 40 23548243 CIN : L24230TG1981PLC003201, www.natcopharma.co.in.
GSTIN : 33AAACN6927A1ZW

Date:23.04.2025
Chennai-Manali

To

The Joint Chief Environmental Engineer (M),
First Floor, 950/1, Poonamallee High Road,
Arumbakkam,
Chennai-600 106

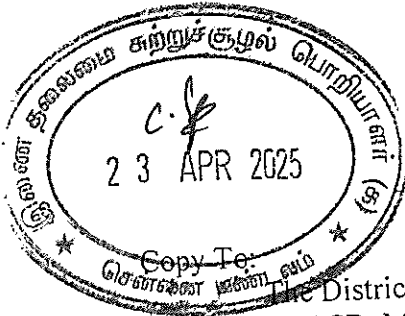
Respected Sir,

SUB: Submission of Environmental Statement in Form-V – Reg.

Here with we have attached our Environmental Statement in Form-V for the financial year 2024-2025 to your good office for your kind perusal.

Attachments:

1. Environmental Statement in Form-V.
2. Annexure-01 & 02 (Raw Material Details).
3. Annexure-03 & 3A (Consolidated Treated Effluent's (ETP & STP) ROA)
4. Annexure-04 (ROA of AAQ, Stack, Ambient Noise Level Survey done by TNPCB)
5. Annexure- 05 (Hazardous Wastes Analysis report by TNWML)



Copy To:
The District Environmental Engineer
TNPCB, Manali (MERRC)
No.33/80, 1st Main Road, Ramakrishna Nagar
Ernavoor, Chennai-600 057

With regards,

G. Vasanth
VP-Operations.



The RvA is a signatory to the IAF MLA

Manufacturing Site :

Chemical Division - Chennai.

(ISO 14001:2015 and ISO 45001:2018 Certified)

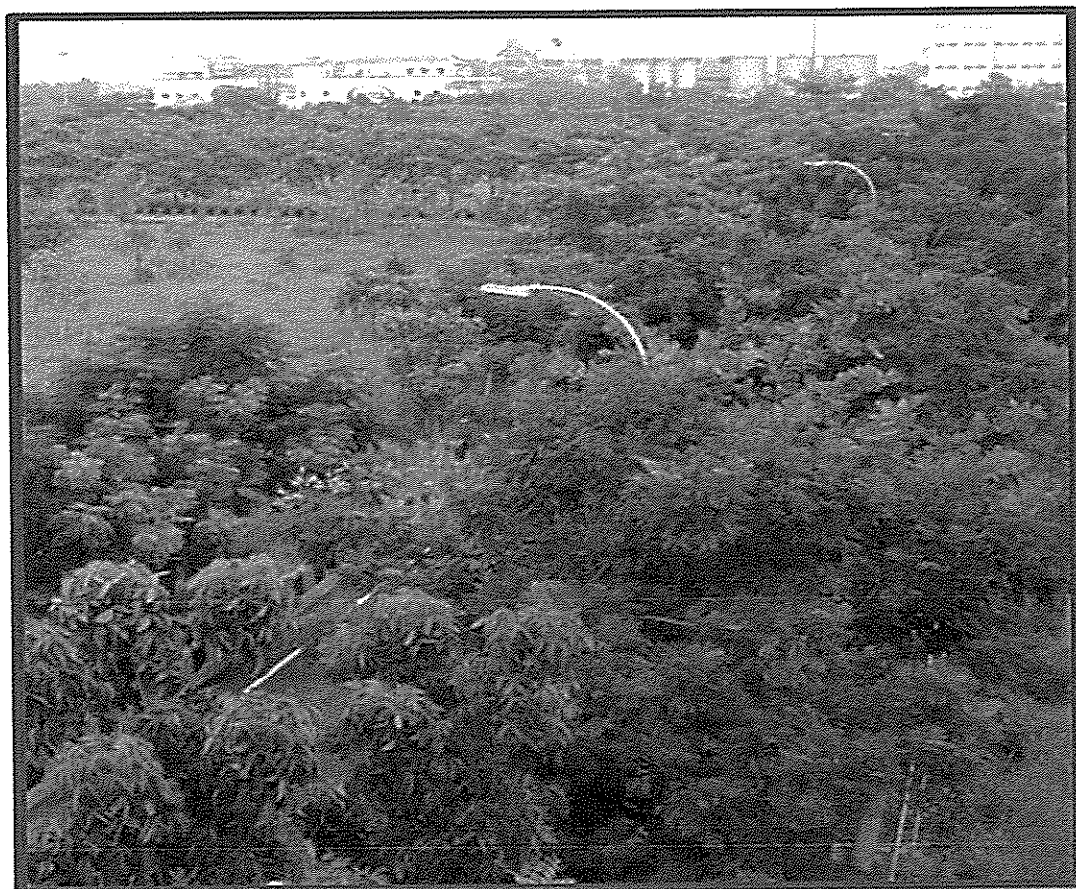
S.No. 74/7B, Vaikkadu TPP Salai, Manali, Chennai - 600 103. Tamilnadu, INDIA

Tel. : +91-7299009981/82/83/84



Environmental Statement – Form-V

For the FY 2024-25



**M/s. NATCO PHARMA LTD
CHEMICAL DIVISION CHENNAI**

**No. 74/7B, Vaikkadu TPP Salai,
Manali, Chennai- 600 103**

Tamil Nadu

Natco Pharma Limited Chennai Division

FORM V- Index

S.No.	Description	Page No.
1	Part A - Company Details	3
2	Part B- Water and Raw Material Consumption	5
3	Part C- Pollution Discharged to Environment	7
4	Part D - Hazardous Wastes	8
5	Part E - Non-Hazardous Solid Wastes	9
6	Part F- Hazardous waste Analysis Report	9
7	Part G - Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of productions	10-30
8	Part H - Additional measures /investment proposal for environmental protection including abatement of pollution, prevention of pollution	30-32
9	Part I- Any other particulars in respect of environmental protection and abatement of pollution	33
10	Annexure 01 & Annexure-02- Raw Material Details	Attached
11	Annexure 03 & 3A – Consolidated Treated Effluent's (ETP & STP) Report of Analysis	Attached
12	Annexure-04– ROA of AAQ, Stack Monitoring, Ambient Noise Level Survey done by TNPCB	Attached
13	Annexure-05 - Hazardous waste Analysis Report by TNWML	Attached

FORM V

(See Rule – 14)

**ENVIRONMENTAL STATEMENT REPORT FOR THE FINANCIAL YEAR ENDING
31ST MARCH 2025****PART A**

1	Name and address of the occupier of the Industry operation or process	Mr.P.S.R.K Prasad NATCO PHARMA LIMITED, 74/7B, VAIKKADU TPP SALAI, MANALI, CHENNAI – 600103.
2	Industry Category Primary – (STC Code) Secondary – (SIC Code)	17 Red Category (Scale of Industry: Large)
3	Production Capacity	11.30 TPA List of Products with capacities given below
4	Year of Establishment	08.08.2007
5	Date of last Environment statement submitted	12.04.2024

S.No	Description	Document No
01	CTO-Air (Valid Till 31.03.2027)	CONSENT ORDER NO. 2408256882048 DATED: 11/04/2024 PROCEEDINGS NO.T6/TNPCB/F.0846AMB/RL/AMB/A/2024
02	CTO-Water (Valid Till 31.03.2027)	CONSENT ORDER NO. 2408156882048 DATED: 11/04/2024. PROCEEDINGS NO.T6/TNPCB/F.0846AMB/RL/AMB/W/2024
03	Hazardous Waste Authorization (Valid Till 31.03.2027)	AUTHORISATION No. 23HFC49526521 dated 01/07/2023 Proceeding No. T6/TNPCB/F.0846AMB/HWA/RL/AMB/2023

List of Products with Capacities			
S.No	Name of the Product	Consented Quantity (TPA)	Product Manufactured During the year (2024-2025)
1	Bendamustine Hydrochloride	0.12	10.98 Kgs
2	Bortezomib	0.01	3.22 Kgs
3	Decetabine	0.08	0.62 Kgs
4	Everolimus	0.03	26.52 Kgs
5	Trabectedine	0.01	3.49 Kgs
6	Busulfan	0.05	-
7	Lenalidomide	0.07	7.42 Kgs
8	Nelarabine	0.01	-
9	Thiotepa	0.01	6.95 Kgs
10	Azacitidine	0.07	-
11	Chlorambucil	0.01	-
12	Doxorubicin Hydrochloride	0.01	-
13	Fulvestrant	0.01	-
14	Pomolidomide	0.2	13.11 kgs
15	Carmustine	0.04	-
16	Melphalan	0.01	-
17	Nilotinib Hydrochloride	0.15	-
18	Rizatriptan Benzoate	0.1	-
19	Temsirolimus	0.01	-
20	Lapatinib Ditosylate Monohydrate	0.3	-
21	Palbociclib	0.7	-
22	Pazopanib Hydrochloride	0.4	-
23	Sorafenib Tosylate	0.4	-
24	Sunitinib Malate	0.3	-
25	Dabigatran Etxilate	0.6	-
26	Deferasirox	0.3	-
27	Lansoprazole	0.6	-
28	Lanthanum Carbonate Dihydrate	0.7	-
29	Ledipasvir	0.4	-
30	Ondansetron Hydrochloride Dihydrate	0.5	-
31	Pirfenidone	0.5	-
32	Sacubitril	0.4	-
33	Ticagrelor	0.5	-
34	Cabozantinib-S-Malate	0.5	-
35	Dasatinib Monohydrate	0.5	-
36	Erlotinib Hydrochloride	1	-
37	Geftinib	0.5	-
38	Imatinib Mesylate	1	6.16 Kgs
39	Total production Capacity (Maximum 16 products at a time)	11.1 TPA	78.48 Kgs
40	R & D Products	0.2 TPA	-
41	Total production Capacity (Maximum 16 products at a time) and R & D activity	11.3 TPA	78.48 Kgs (0.07848 TPA) (9 products manufactured in the year)

PART B

WATER AND RAW MATERIAL CONSUMPTION

I. Water Consumption (During the previous financial year (2024-2025):

A. Total Consented Quantity, during the financial year (2023-2024) : 190.47 KLD

Source of Water	CMWSSB
Particulars	Qty (KLD)
1. Process	3.47
2. Washings	30
3. Boiler	21
4. DM Regeneration	10
5. Scrubber	12
6. QC and R&D	10
7. Utility Rejects	25
8. Fire hydrant makeup	5
9. WC-II: Domestic	21
10. Cooling Towers	23
11. Gardening	30
Total Consented Quantity	190.47 KLD

Process Water Consumption for Manufactured Product output in (KL)			
S.No	Name of the Product	Water Consumption During the year (2023-2024) Qty (KL)	Remarks
1	Bendamustine Hydrochloride	1.253	
2	Bortezomib	0.425	
3	Decetabine	0.000	
4	Everolimus	1.478	
5	Trabectedine	0.327	
6	Lenalidomide	0.005	
7	Thiotepa	1.218	
8	Pomolidomide	0.473	
9	Imatinib Mesylate	1.628	
Total Process Water Consumption for the 2023-24 (KL)		6.81 KL	

B. Total Consented Quantity, during the financial year (2024-2025) : 190.47 KLD

Source of Water	CMWSSB
Particulars	Qty (KLD)
1. Process	3.47
2. Washings	30
3. Boiler	21
4. DM Regeneration	10
5. Scrubber	12
6. QC and R&D	10
7. Utility Rejects	25
8. Fire hydrant makeup	5
9. WC-II: Domestic	21
10. Cooling Towers	23
11. Gardening	30
Total Consented Quantity	190.47 KLD

Process Water Consumption for Manufactured Product output in (KL)			
S.No	Name of the Product	Water Consumption During the year (2024-2025) Qty (KL)	Remarks
1	Bendamustine Hydrochloride	0.955	
2	Bortezomib	0.805	
3	Decetabine	0.000	
4	Everolimus	2.519	
5	Trabectedine	0.576	
6	Lenalidomide	1.343	
7	Thiotepa	1.738	
8	Pomolidomide	0.852	
9	Imatinib Mesylate	1.017	
Total Process Water Consumption for the 2024-25 (KL)		9.81 KL	

I. Raw Material Consumption:

Name of Raw material	Name of Products	Consumption of Raw material per unit of Output	
		During the Previous financial year (2023-2024)	During the current financial year (2024-2025)
(Report Enclosed in Annexure-I &II)	(Report Enclosed in Annexure-I & II)	(Report Enclosed in Annexure-I)	(Report Enclosed in Annexure-II)

PART C

POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT

(Parameter as specified in the consent issued)

(a) Water : (Analysis carried out by TNPCB LAB, AMBATTUR) April 2024 – March 2025

Report Enclosed in Annexure-III

Description	Quantity of Pollutants Discharged, (mass/day) (Kgs/ day)	Average Concentrations of Pollutants in ZLD (mass / volume) (mg/Lit)	Percentage of Variation from Prescribed standards with reasons
pH	.	7.24	All the values are within the prescribed standard limits
Total Suspended Solids	0.11864	4	
Total Dissolved Solids	4.830131	162.85	
Chlorides	1.9913724	67.14	
Sulphates	0.7957778	26.83	
Oil and Grease	0	0	
BO D for 3 Days at 27°C	0.05932	2	
C O D	0.3387172	11.42	
Phosphate	0.0086014	0.29	
Cyanide	0.0001483	0.005	
Phenolic Compounds	0.0001483	0.005	
Sulphide	0.02966	1.00	
Hexavalent chromium	0.0002966	0.01	
Lead	0.00047456	0.016	
Mercury	-	NA	

Note: Average Quantity of Treated Water Discharge for Reuse for Cooling Tower make-up: 29.66 KLD

b). Air: (Stack Monitoring carried out by TNPCB LAB, Chennai) Dated: 09.10.2024

Report Enclosed in Annexure-IV

S. No	Description of Chimney/Stack	Concentration of Pollutants discharged (mass / volume) (mg/Nm ³)			Quantity of Pollutants discharged (mass /day) (Kgs/day)		
		PM	SO ₂	NO _x	PM	SO ₂	NO _x
1.	Boiler 6 TPH	52	11	84	7.84	1.66	12.67
2.	DG 1010KVA-I	28	15	348	1.08	0.58	13.37
3.	DG 1010KVA-II	24	18	319	0.89	0.67	11.79

PART D

Hazardous Wastes

(As specified under Hazardous Wastes / Management & Handling Rules, 1989)

S.No	Hazardous Wastes	Total Quantity (MT)	
		During the current financial year (2023-2024) Generation	During the current financial year (2024-2025) Generation
1.	From Process		
	28.1 Process Residue & Waste	4.03	5.781
	28.2 Spent catalyst	0.0	0.0
	28.3 Spent carbon	0.014	0.196
	28.4 Off specification products	0	0
	28.5 Date expired products	0	0
	28.6 Spent Solvents	26.68	20.347
	5.1 Used or spent oil	0.76	0.558
	5.2 Wastes or Residues containing oil	0.21	0.113
	33.1 Disposal of barrels /containers used for handling of hazardous wastes / chemicals	0.40	0
	36.1-Any process or distillation residue	0	0
2.	From pollution control facilities		
	(35.3) Chemical sludge from waste water treatment	9.72	22.417
	(35.3) Evaporation Salts	5.50	3.586

PART E
Non-Hazardous Solid Wastes

S.No	Non- Hazardous Wastes	Total Quantity (MT)	
		During the Previous financial year (2023-2024)	During the current financial year (2024-2025)
1.	From Process		
(i)	Wooden Packing Materials, carton boxes, metal scraps, used glass wares& Plastics	2.2	8.68
2.	From pollution control facilities		
(i)	Wooden pallets & Waste papers	3.3	2.505

All Non-hazardous wastes are disposed through scrap dealers.

PART F

Report Enclosed in Annexure-V

Hazardous waste:

The generated quantity of Hazardous waste from plant is being collected in close drums and then stored at Hazardous waste storage room. As per Hazardous Waste (Management, Handling & Tran boundary Movement) Rule, 2016. These hazardous wastes are Disposal to Pre-processor & authorized recycler. The comprehensive analysis report of hazardous waste are given below.

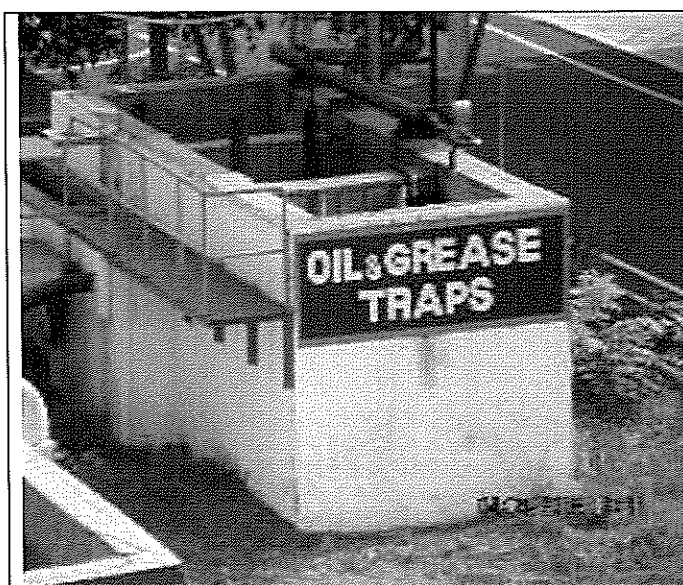
S.N O	Parameters	Hazardous waste			
		Process Residue & waste (Organic solid Waste- Gloves)	Process Residue & waste (Inorganic solid Waste)	Chemical Sludge from waste water treatment (ETP Sludge)	Evaporation Salts
1.	pH	6.95	6.85	7.64	7.26
2.	Calorific value	7534 Cal/gm	<2500 Cal/gm	3124Cal/gm	<200 Cal/gm
3.	Bulk Density	0.29 gm/cc	1.16 gm/cc	0.98 gm/cc	1.20 gm/cc
4.	Flash Point °C	>250	>250	>250	>250
5.	LOD @ 105 °C	<1%	2.85%	3.75 %	20.12 %
6.	Loss on Ignition @ 550 °C (Dry basis)	87.68 %	6.02 %	56.85 %	8.24 %
7.	Water soluble In-Organics	< 0.1 %	< 0.20 %	2.59 %	50.28%
8.	Water soluble Organics	< 0.1 %	< 0.12 %	0.62 %	2.16 %
9.	Lead	<1 mg/L	<1 mg/L	<1 mg/L	<1 mg/L
10.	Copper	<0.5 mg/L	<0.5 mg/L	<0.5 mg/L	<0.5 mg/L
11.	Mode of Disposal	Generation, Collection, Storage & Utilization in cement kilns through preprocessor			collected & stored securely in our Hazardous waste storage room & looking for scientific disposal

PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of productions:

Total water consumption by the unit is below the consented limit (190.47 KLD). The effluent generation has well below the approved discharge quantity and **“Zero Liquid Discharge”** methods are adopted to treat the effluent generated in the plant. Low TDS & High effluents are being segregated at source. Low TDS effluent are sent to ETP for primary treatment. After the primary treatment, the treated water is being sent to Reverse Osmosis plant for recovery of fresh water (Permeate) and recovered permeate water are totally recycled for the plant utilities. RO rejects are being sent to evaporation system to treat along with High TDS effluents.

ETP – ZLD Photos (Stream-02) – LOW TDS Treatment System



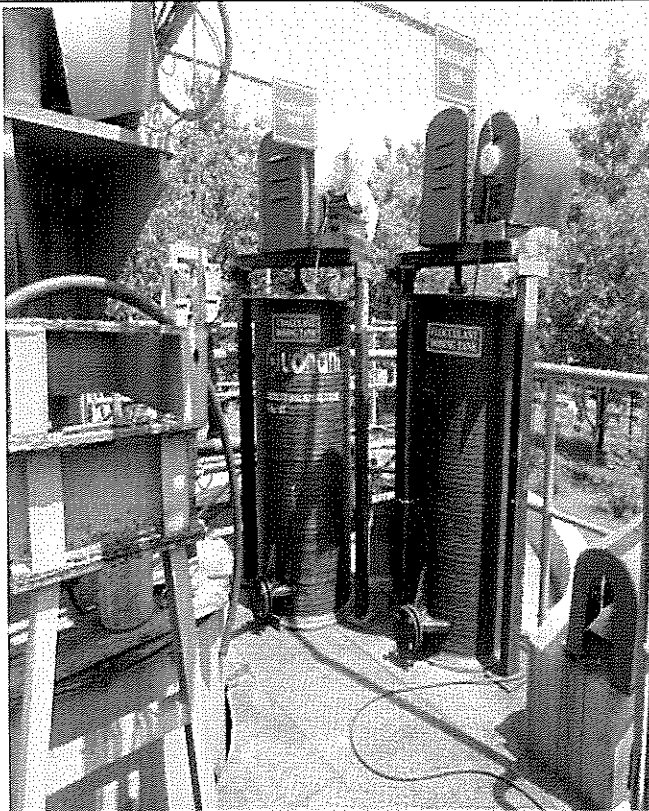
Oil & Grease Trap



Equalization & Neutralization Tank

ETP – ZLD Photos (Stream-02) – LOW TDS Treatment System

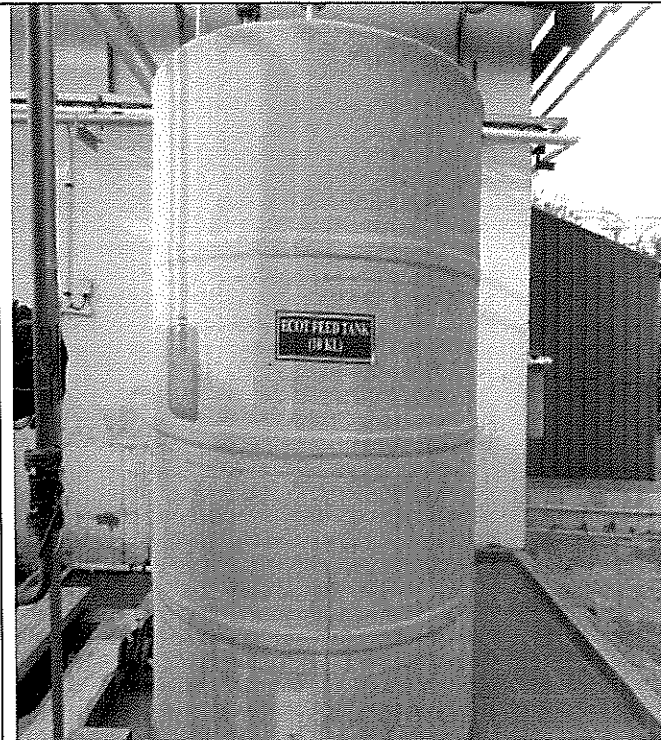
Oil & Grease Trap



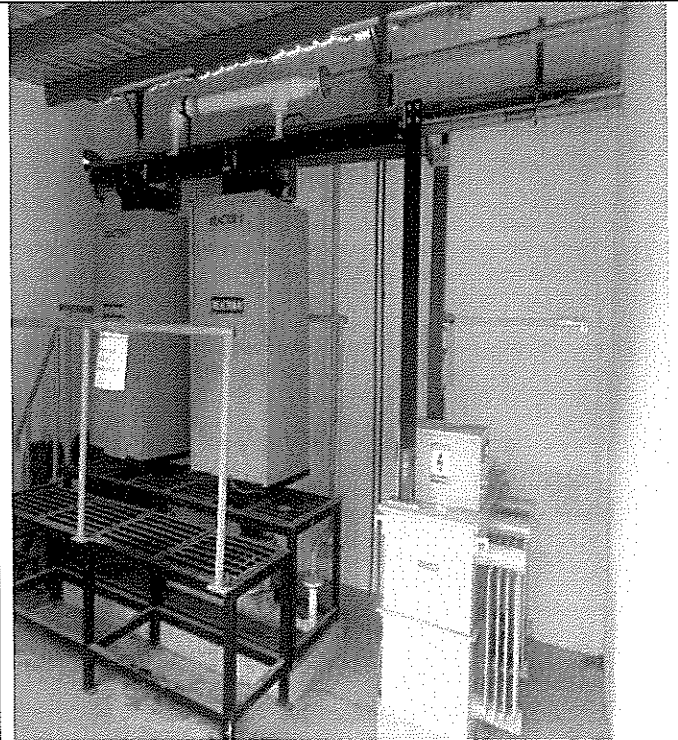
Equalization & Neutralization Tank



Flash Mixer – Coagulation & Flocculation System



Clarifloculator



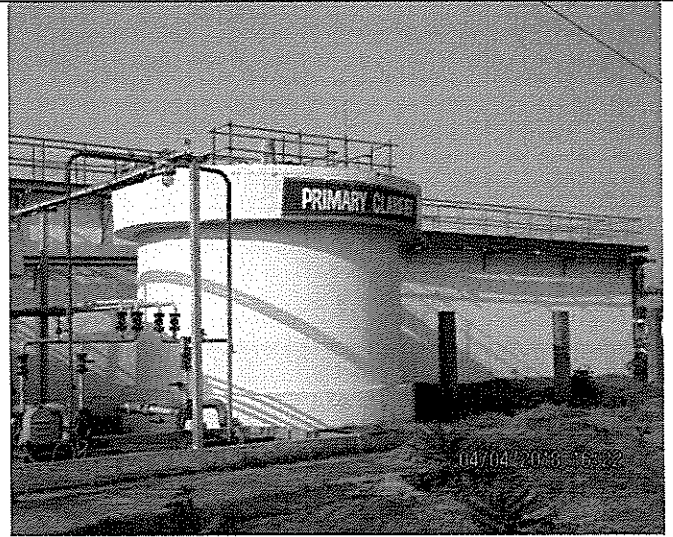
E-Cot Feed Tank & PH Adjustment System

Electrochemical Oxidation (ECOT) System

ETP – ZLD Photos



Aeration Tank-01



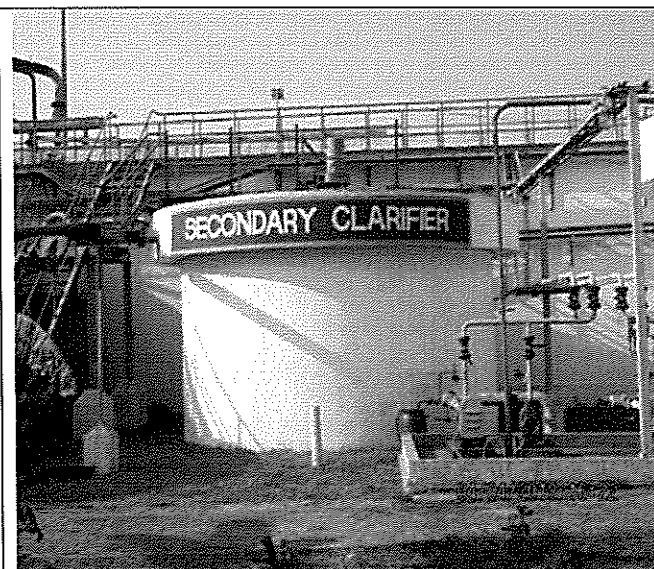
Primary Clarifier



Aeration Tank-02 & Jet Aerator



Flash Mixer – Coagulation & Flocculation System

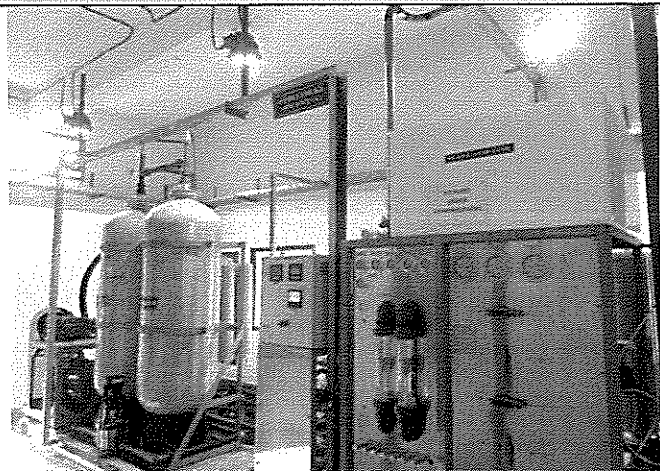


Secondary Clarifier

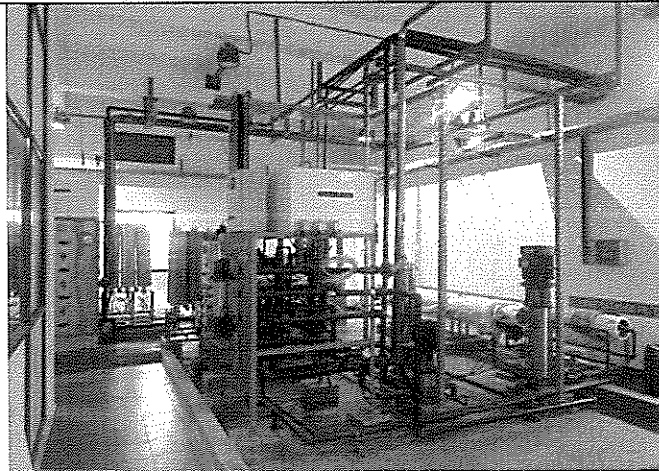


Pre-treatment Water Collection Tank

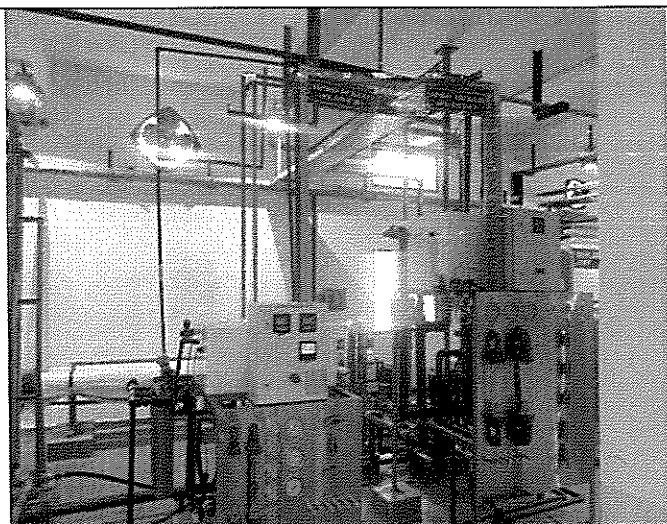
ETP – ZLD Photos



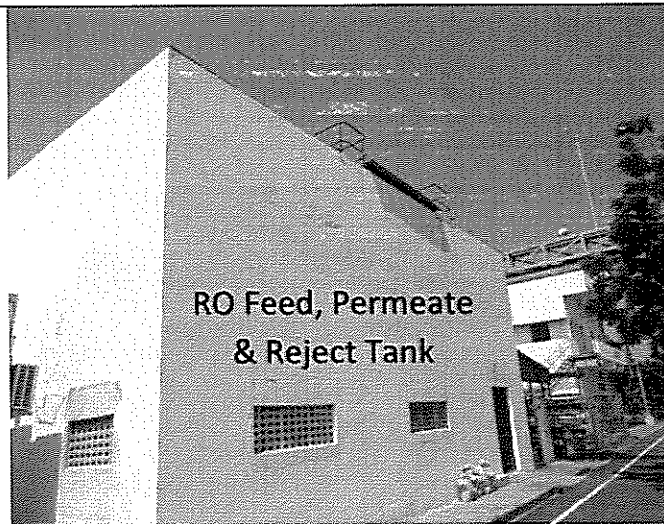
Primary RO System (100 KLD & 150 KLD)



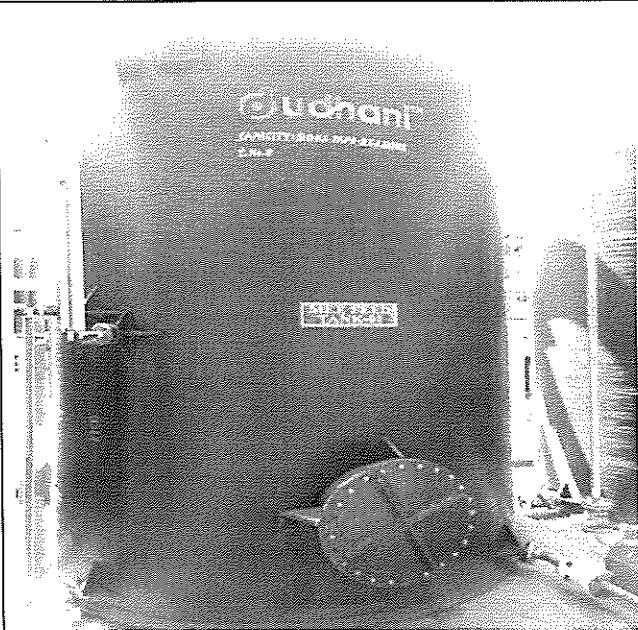
Secondary RO System (100 KLD & 150 KLD)



High Pressure (Reject) RO System (50 KLD)



Primary RO – Feed, Permeate & Reject Collection Tank

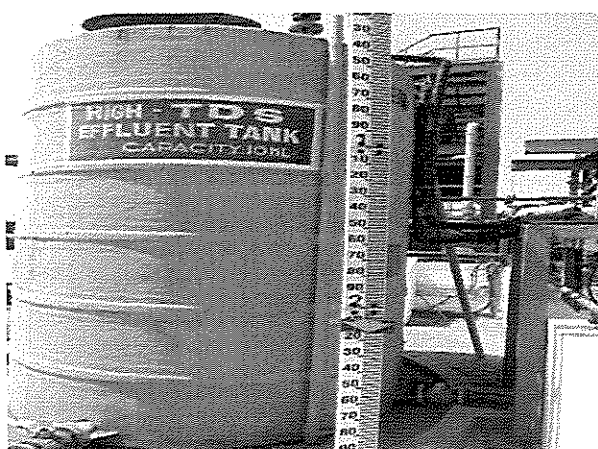


HPRO Reject (MEE Feed Tank)

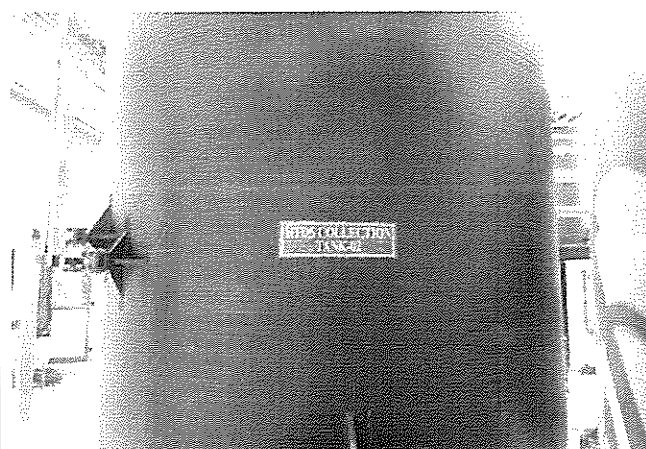


Final Treated Water Collection Tank for Recycling

ETP – ZLD Photos (Stream-01) High TDS Treatment System



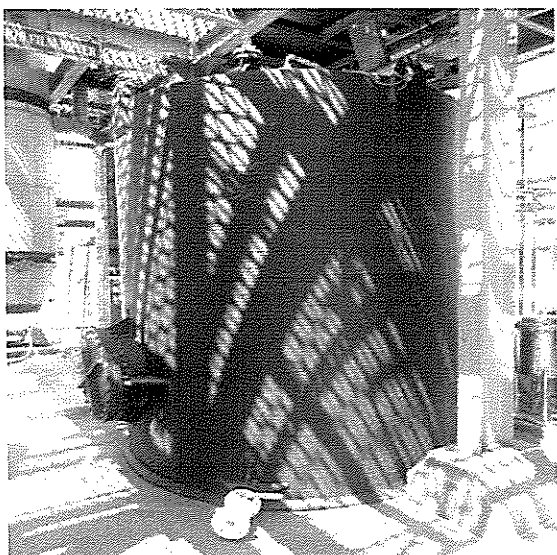
High TDS Collection Tank-01



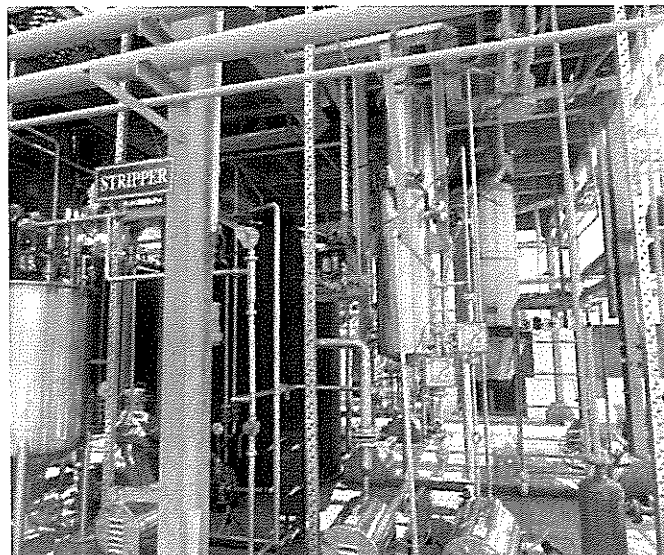
High TDS Collection Tank-02



HTDS Treatment Skid Flash Mixer – Coagulation & Flocculation System & Lamella Clarifier

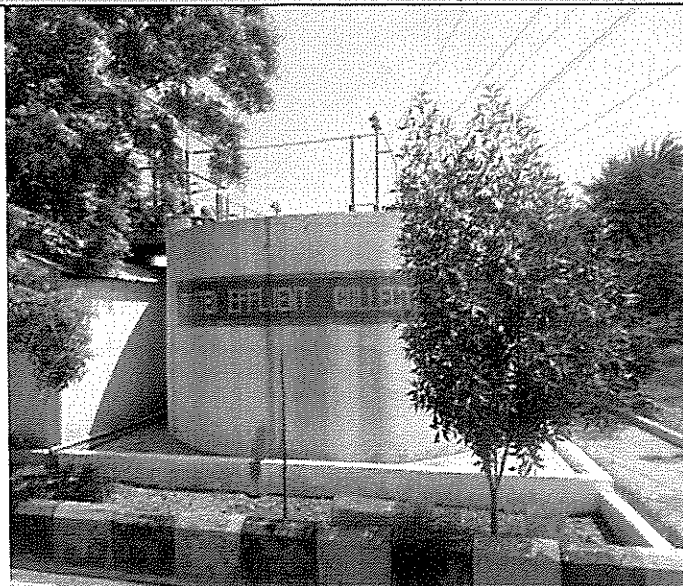


HTDS Pre-treatment Water Collection Tank



Stripper Column

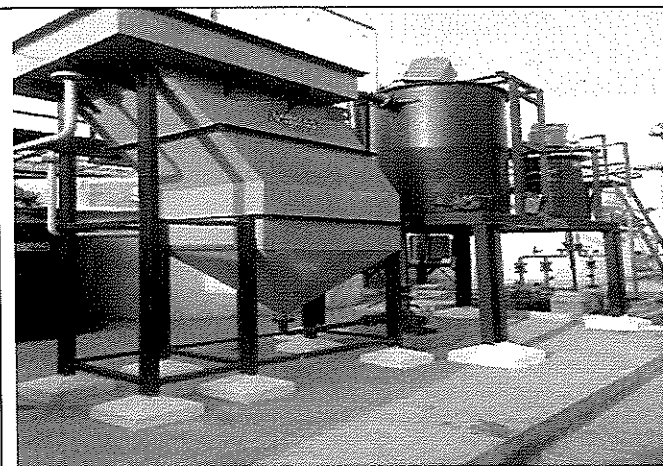
ETP – ZLD Photos (Stream-03) –Utility LOW TDS Treatment system



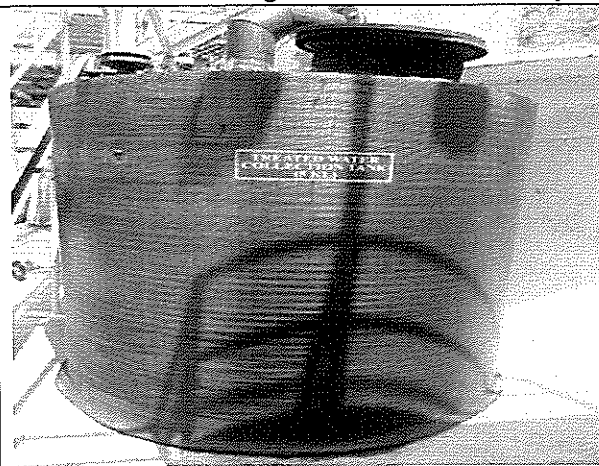
Utility Rejects & Blow down Water Collection Tank



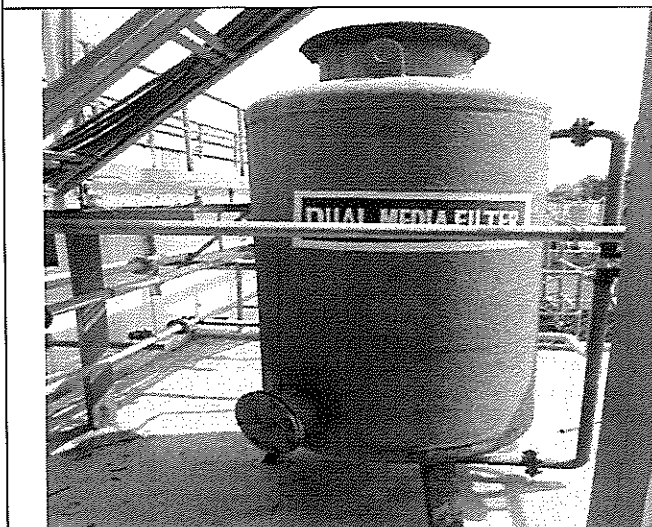
**Utility Treatment Skid
Flash Mixer – Coagulation & Flocculation System**



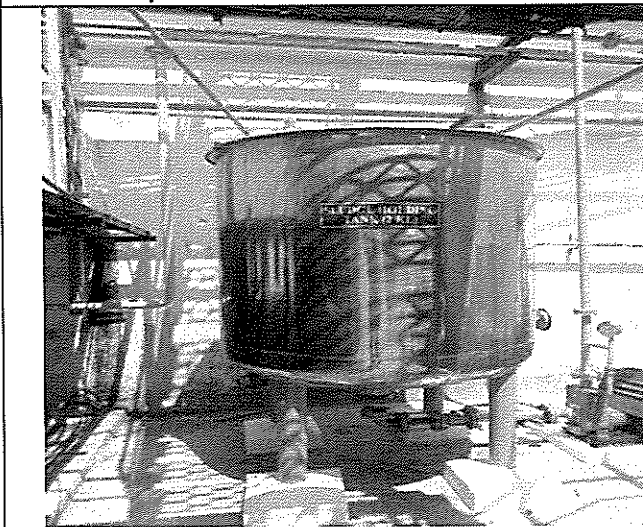
Lamella Clarifier



Utility Pre-treatment Water Collection Tank

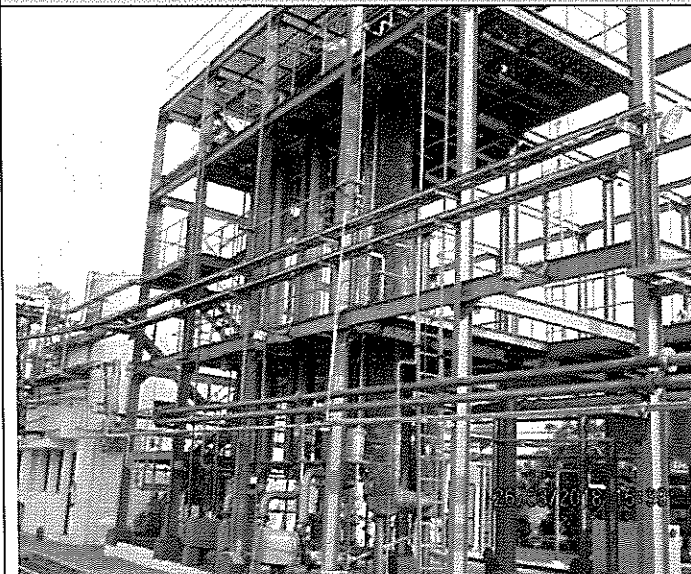


Dual Media Filter

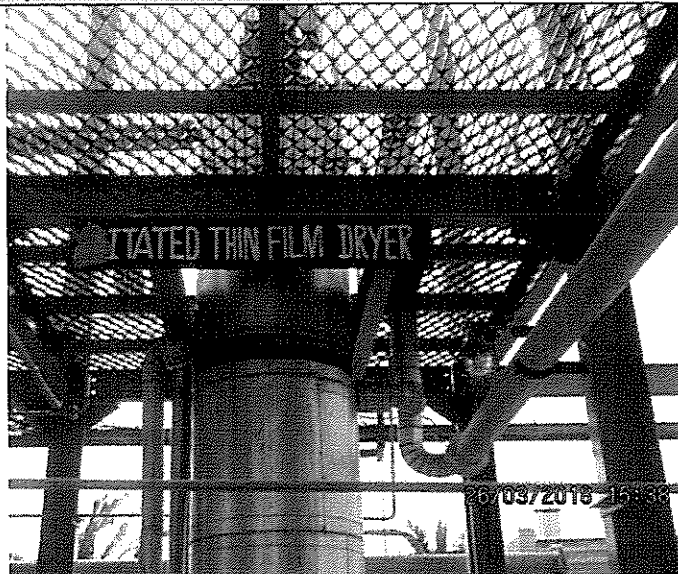


Utility Skid – Sludge collection Tank

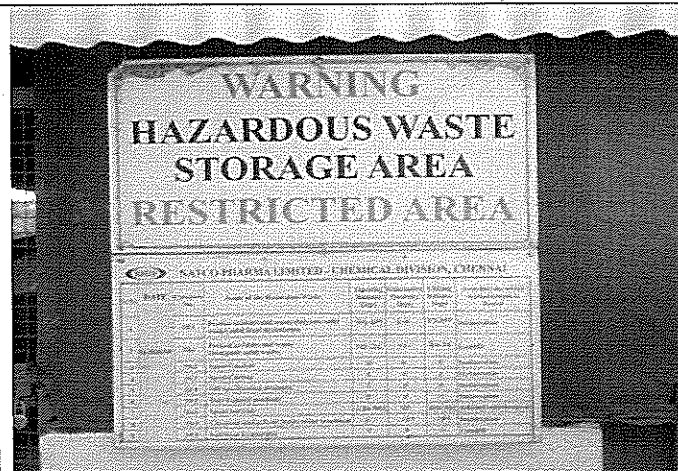
ETP – ZLD Photos (MEE & ATFD)



MEEP Plant



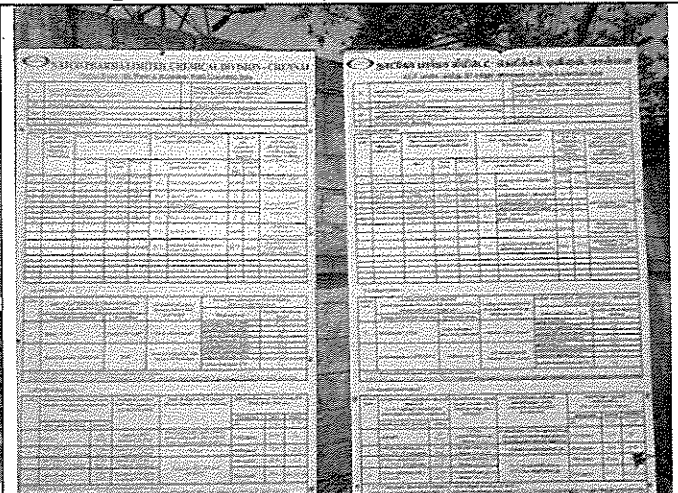
ATFD



HW Storage Shed Entrance Gate Display & HW Storage Shed facility with Lock & Key

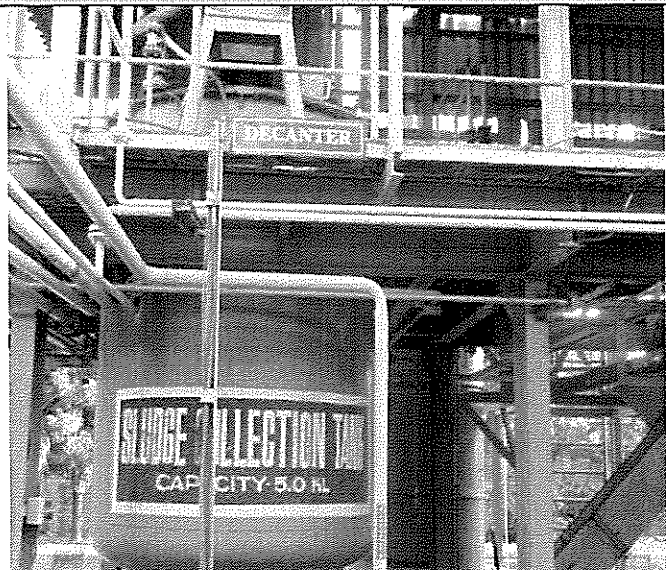


Online Emission display board installed at main gate of the company for public domain

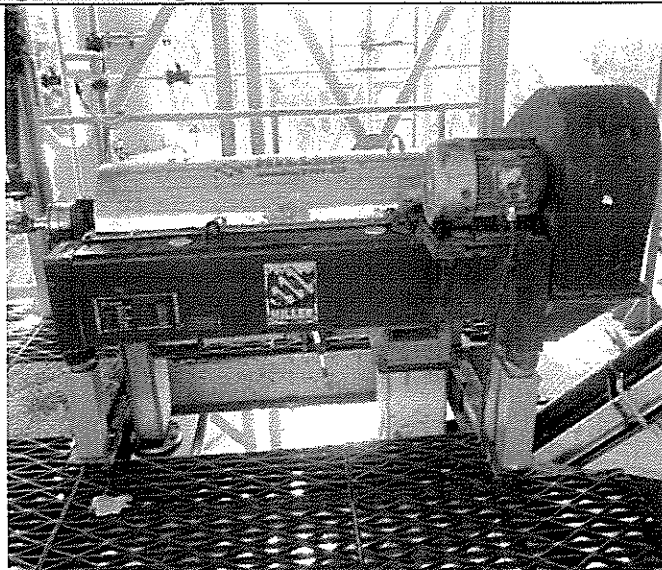


HW display Board at Entrance Gate

ETP – ZLD Photos (Sludge Handling System)



Sludge Collection Tank



Sludge Decanter



Decanter Centrate Collection Tank



Belt Conveyor



Paddle Drier



Paddle Drier Scrubber

ETP LAB



Storm Water Online pH & TDS Sensor

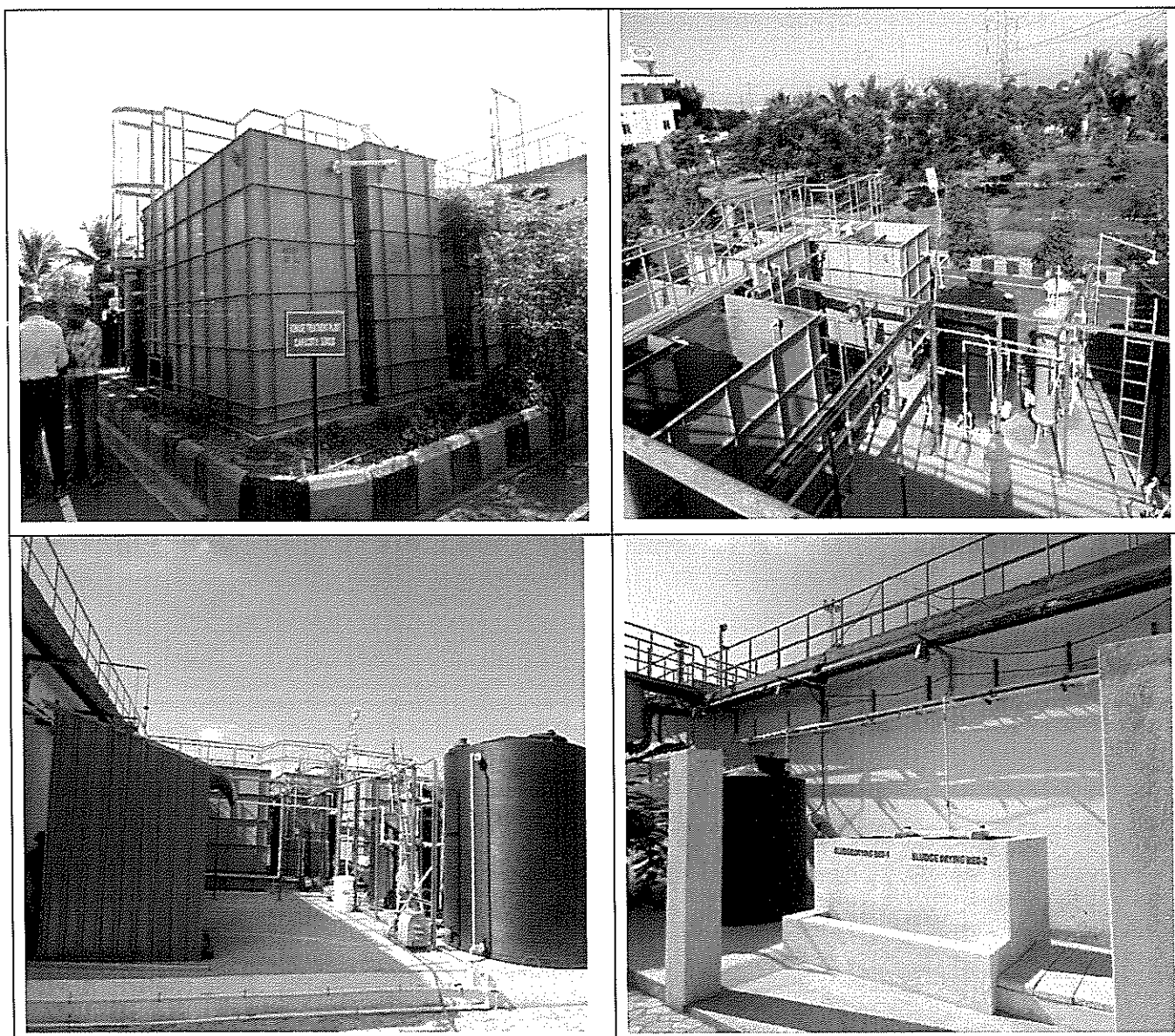


SEWAGE TREATMENT PLANT

Sewage Treatment Plant (STP) of 30 KLD capacity installed & commissioned separately in our unit and STP Inlet (Domestic Sewage) & STP Outlet (Treated water) flowmeters connectivity provided to TNPCB-CAC/WQW.

Sewage collection soak pits are not available in our facility, all of our sewage collection pit constructed with RCC structure.

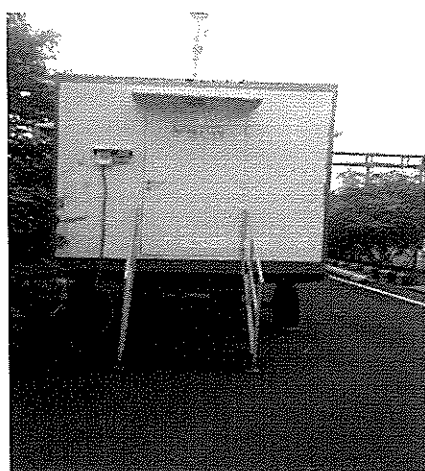
STP installation photos attached below



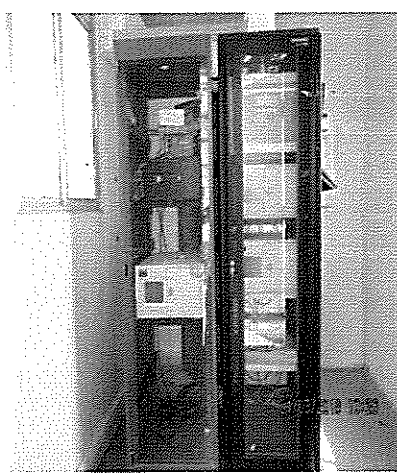
On-line Ambient Air Quality Monitoring station

The gaseous emissions SO₂, NO_x, CO and particulate matter (PM 2.5 & PM10) are being monitored continuously with the AAQMS station provided in the site and the data's are being connected to TNPCB and CPCB in online. Boiler Stack (CEMS) SO₂, NO_x & SPM analyzers installed & connected to CAC-TNPCB. DG Stack Emissions are being measured through NABL approved laboratory at regular intervals on monthly basis & also yearly stack monitoring survey (Boiler & DG) are getting done by TNPCB District Environmental lab and all the results are being complied with prescribed standards and submitted of report to TNPCB.

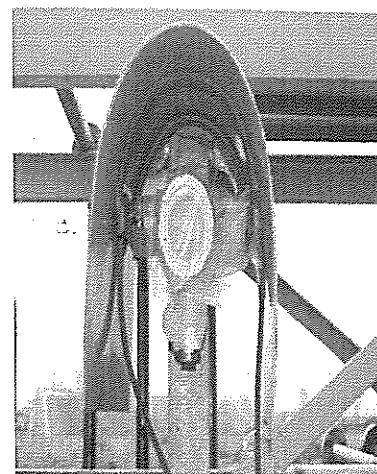
Ambient Air Quality (Natco Mobile van Station – SNAP Shot)
For (NO_x, So₂, PM 2.5 & PM10 and CO) & For (VOC-MEEP, ETP & Production area)



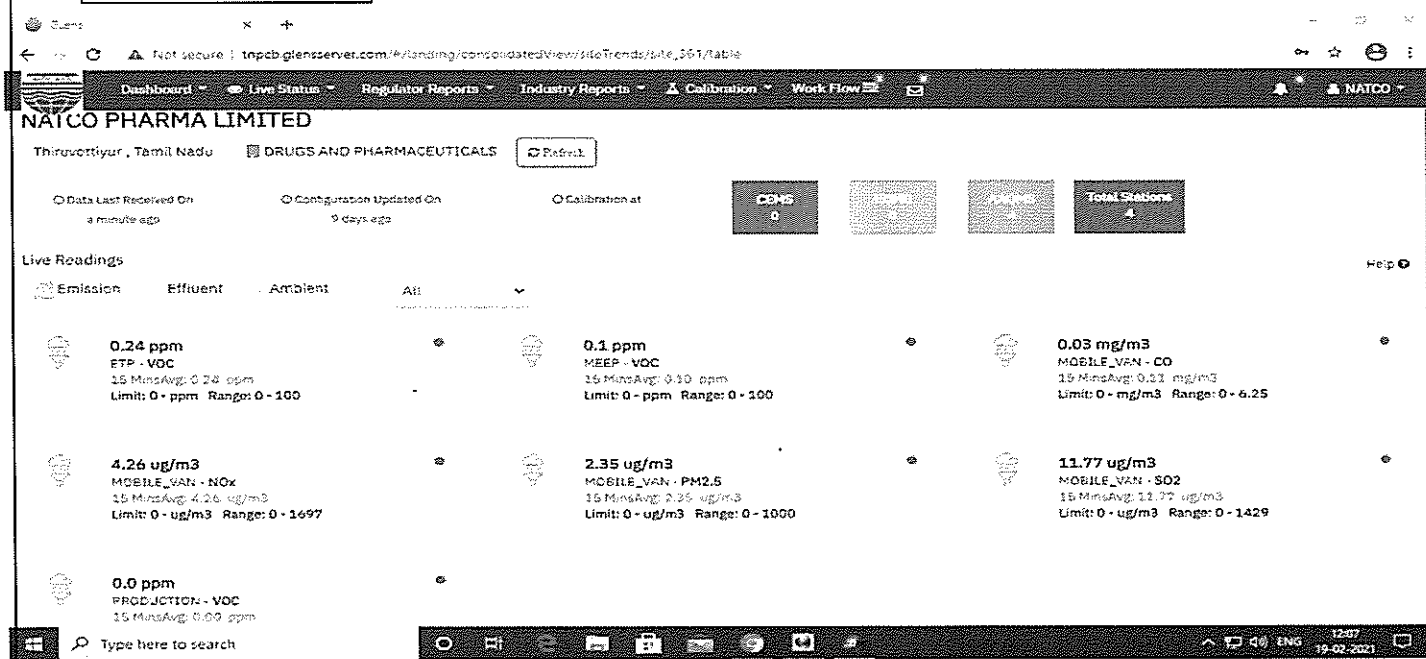
Mobile Van-AAQMS



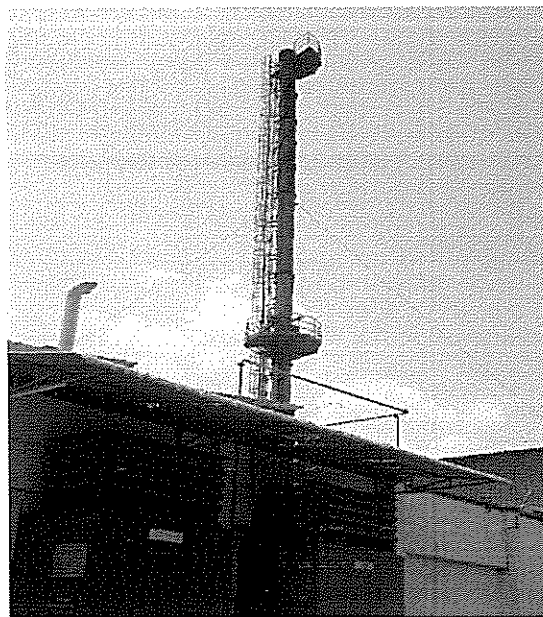
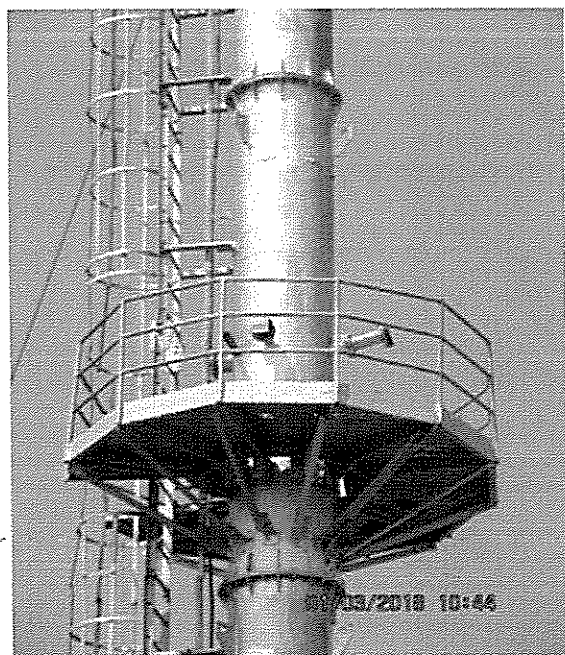
AAQ Analyzers



VOC Analyzers



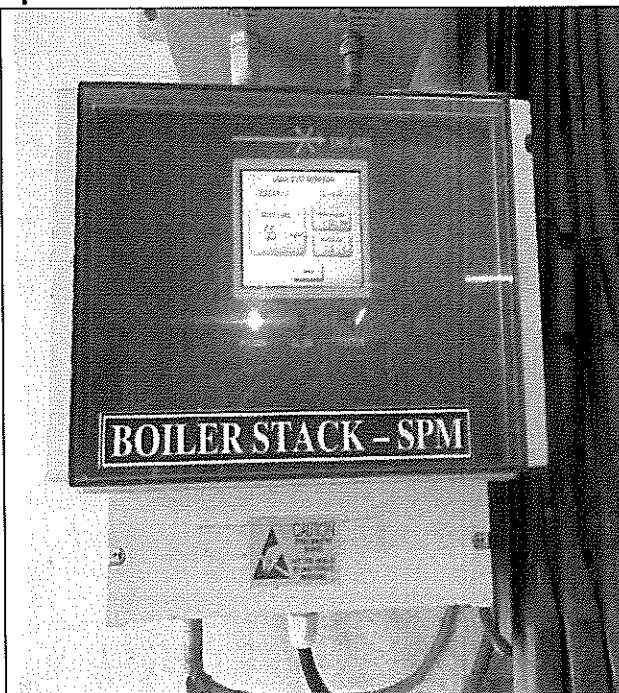
Boiler Stack & Monitoring



Boiler Stack -40 M Height As per CPCB Guidelines

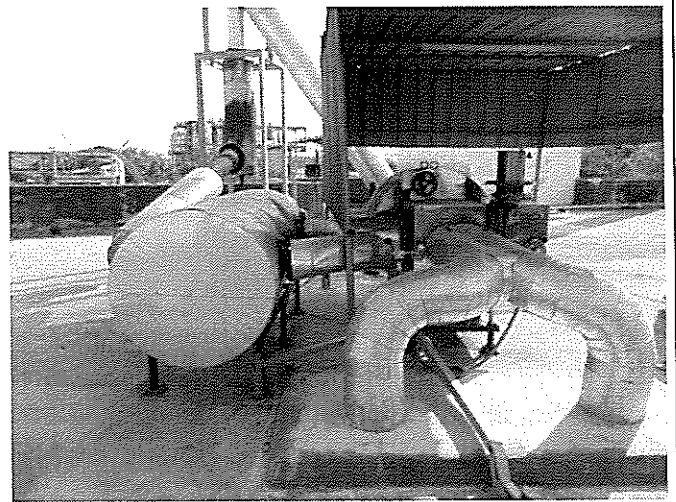
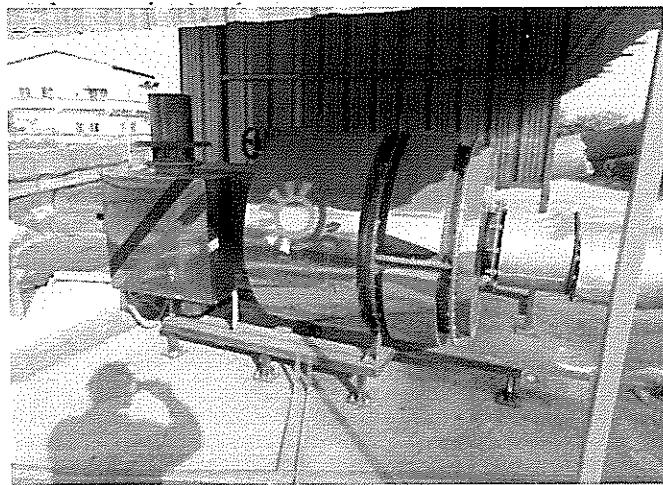
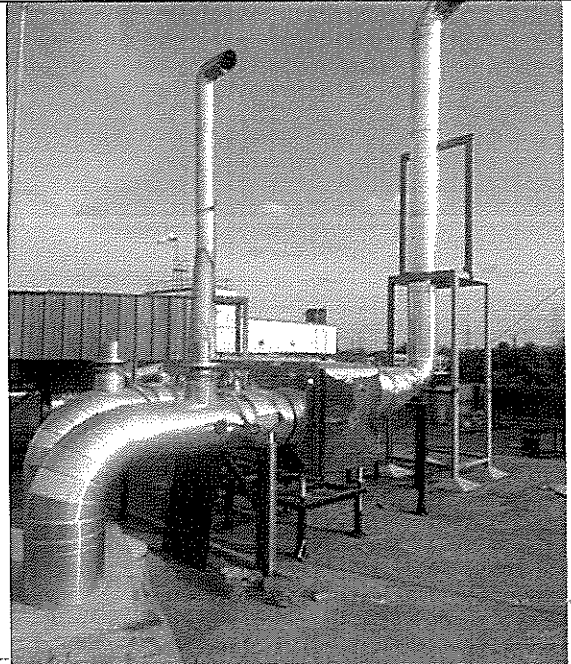
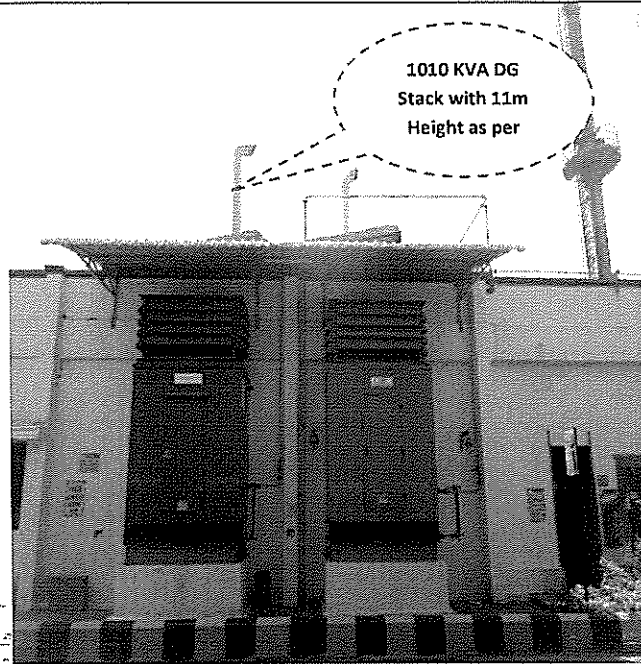


Boiler Stack- Sox & Nox Analyzer



Boiler Stack - SPM Analyzer

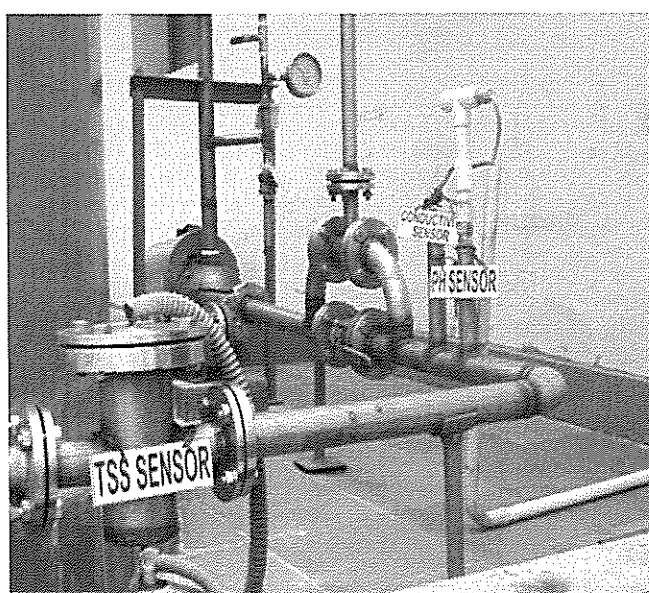
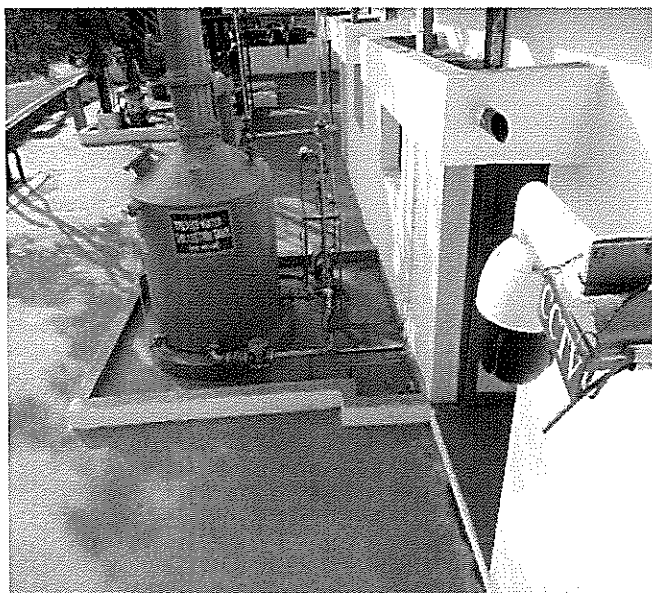
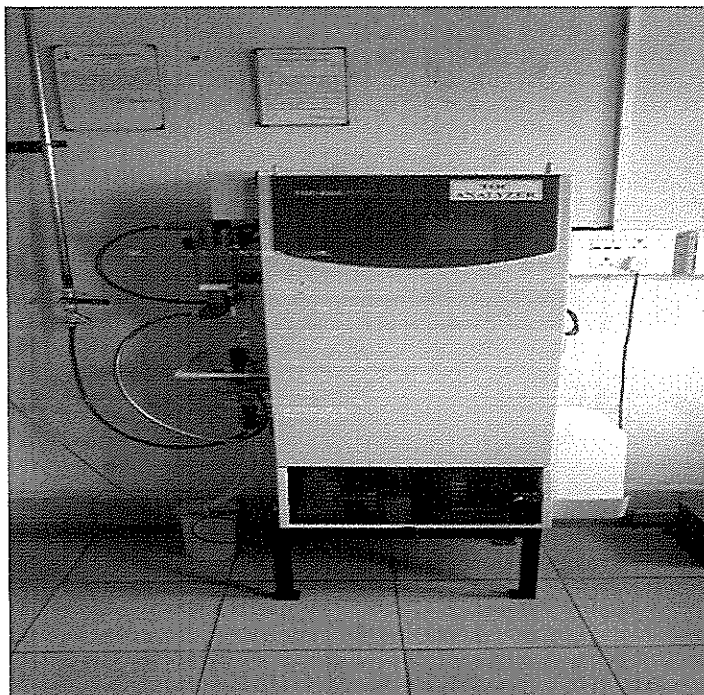
DG Stack & Pollution Control Measures



Online Water Quality Watch System

To ensure the Zero Liquid Discharge System (ZLDS) EMFM provided in ETP inlet & treated water discharge, Parameters such as pH, TSS, TDS, BOD, COD, EMFM (Flow meter) and CCTV are connected to online and the real time monitoring data connectivity has been established to TNPCB - Water Quality Watch and Central Pollution Control Board (CPCB), also the results are found being complied with TNPCB/CPCB prescribed standards at any point of time

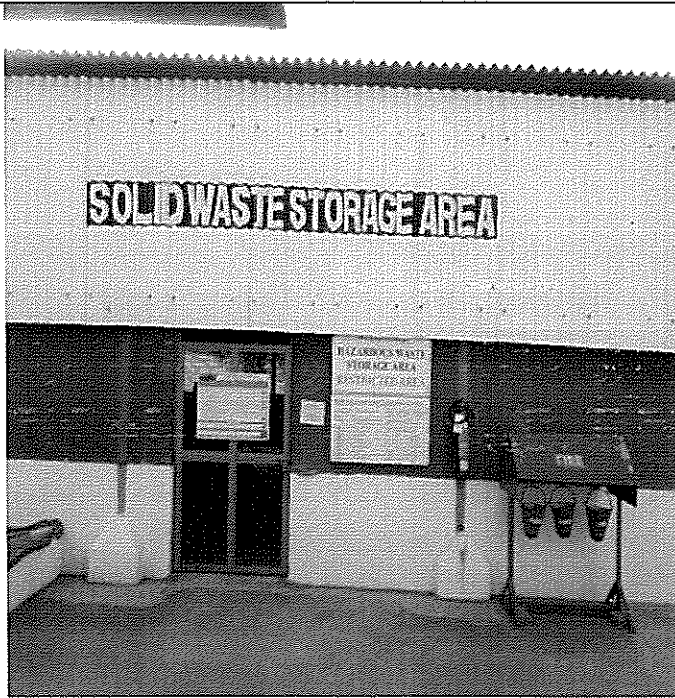
Photos of analyzers & WOW parameters



Hazardous Waste storage shed

Hazardous waste generated during the process are stored properly in the shed in closed drums. As per TNPCB directions, the unit has sent all the generated waste to Pre-processor & authorized recycler as per agreement. Hazardous waste authorization has obtained by the unit and all the solid/hazardous waste are disposed periodically as per Hazardous Waste (Management & Handling) rules.

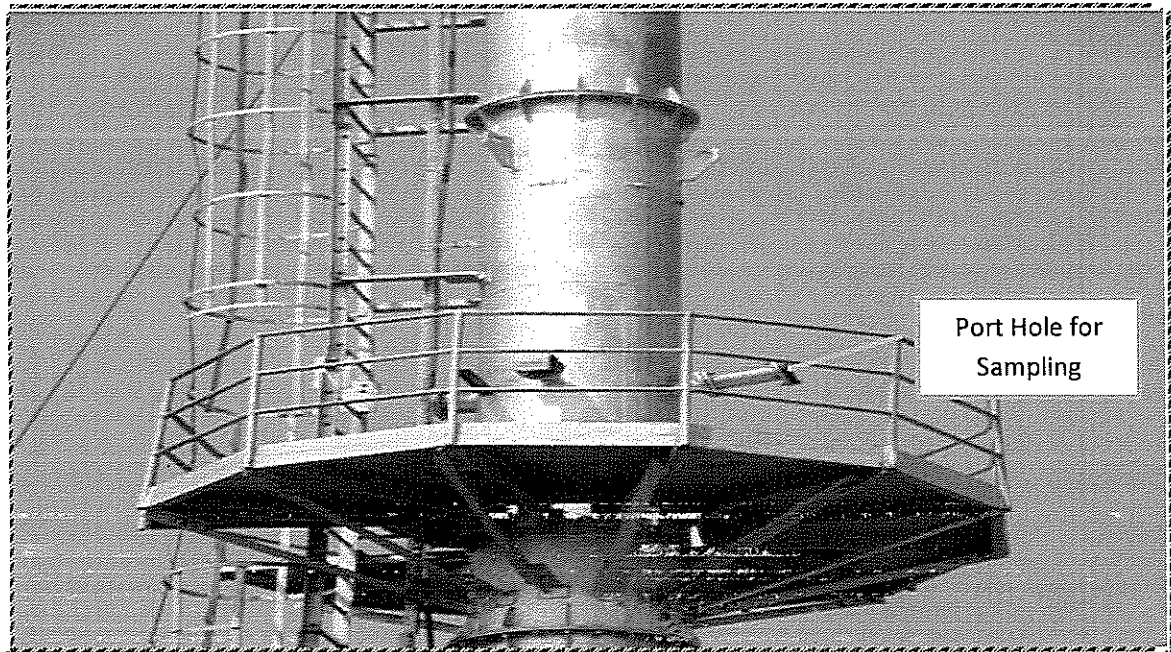
Hazardous Waste Storage Area



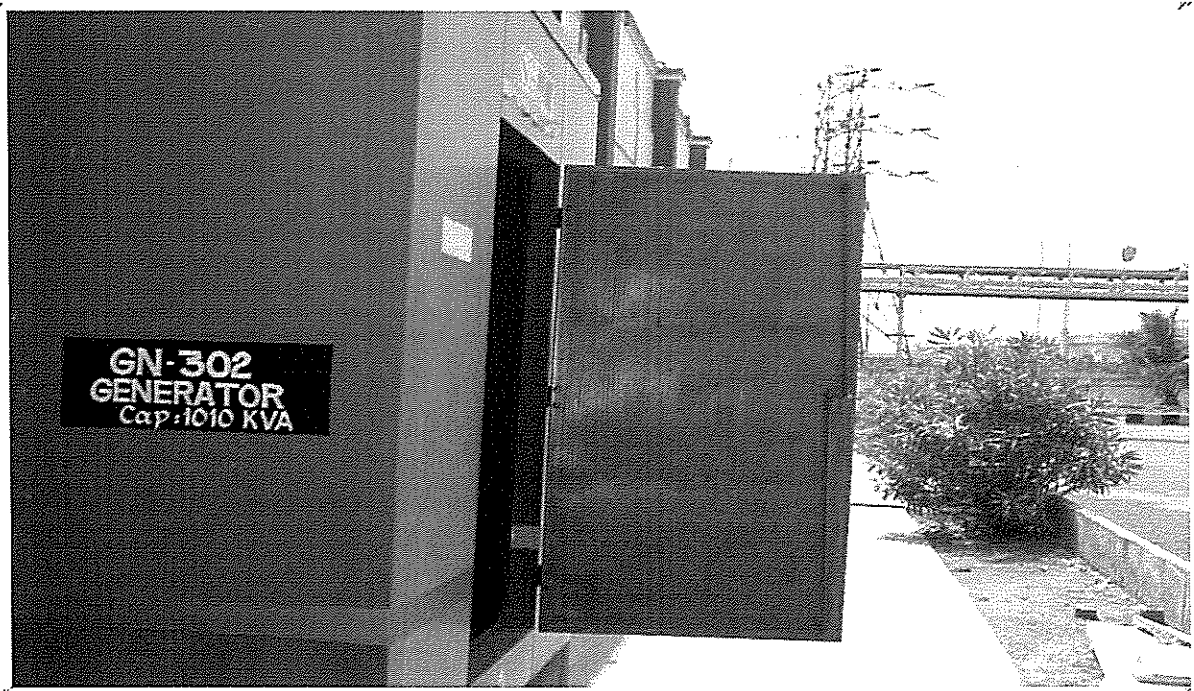
Hazardous Waste Display Board at Front Gate Entry



Air pollution control measure
Boiler Stack monitoring system



DG Acoustic Panel



Process emission control measure

The scrubbers (Two-stage & Single stage scrubber) installed are operated efficiently to control the process emissions with proper neutralizing (alkali) media. Scrubbing solution for pH is being measured continually and monitored regularly to have better control. Scrubber are provided to incinerator to control the air emission, Incinerator has not operation, since from the inception. The scrubber effluent is being sent to ETP for further treatment.



On-line continuous VOC Monitoring system

Necessary arrangements such as VOC analyser, LEL (Lower Explosive Limit) analyser are installed for monitoring of vent exhaust from solvent recovery system and in the work environment. The prescribed standards given by the board has being complied and results uplinked online data connected to care air Centre (TNPCB).

Also Portable VOC analyzer are used to check the exposure in work environment in daily basis and readings are below the limit. Fugitive emissions in the work zone environment, product, and raw materials storage area are being monitored regularly by installing VOC analyzer in the area and the prescribed standards given by the board has being complied & the results uplinked online data connected to care air Centre (TNPCB).



Greenbelt Development in site

The total extent of land available within the unit premises is 95419 Sq.meters, in that company has developed 38200 Sq.mtrs (**40.03 %**) of green belt. The Land area breakup details given in the below table & Photos attached for Green belt.

S No.	Description	Land Area	
		(SQ.Meters)	(%)
1	Ground Coverage Area	26979.69	28.27
2	Solid Waste storage area	170	0.18
3	Green Belt Area	38200	40.03
4	Road Area	19870	20.82
5	Vacant Area for Future Expansion	10199.32	10.69
Total Land Area		95419	100

Existing Green Belt Photos



GPS Point	
Latitude	Longitude
13°11'12.71"N	80°15'59.47"E

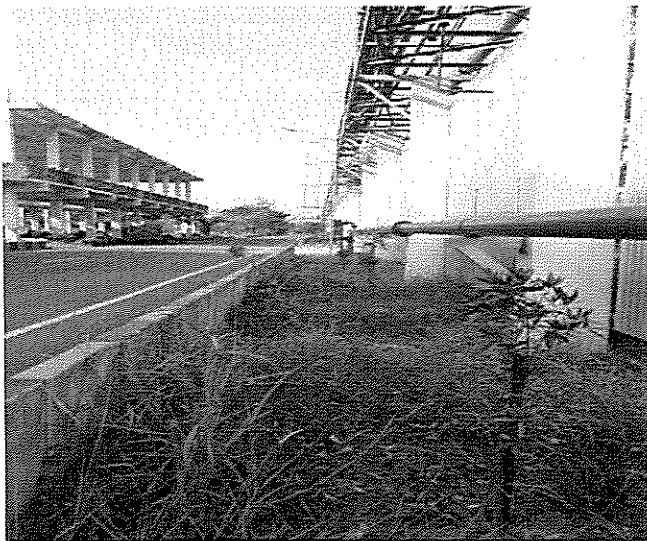
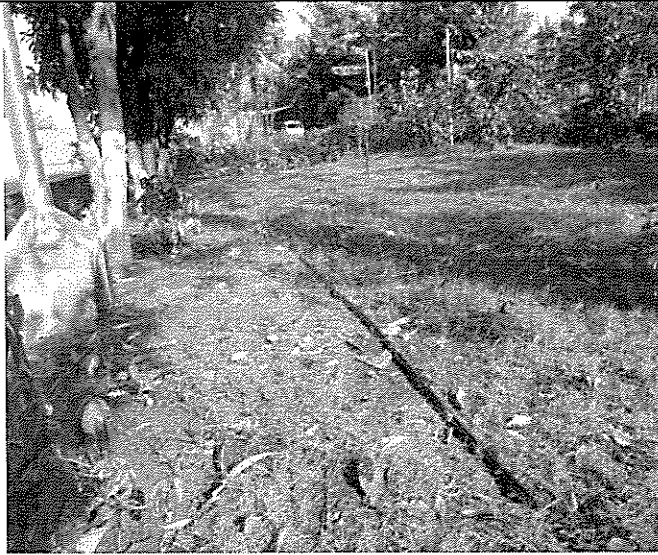


GPS Point	
Latitude	Longitude
13°11'21.60"N	80°16'1.91"E



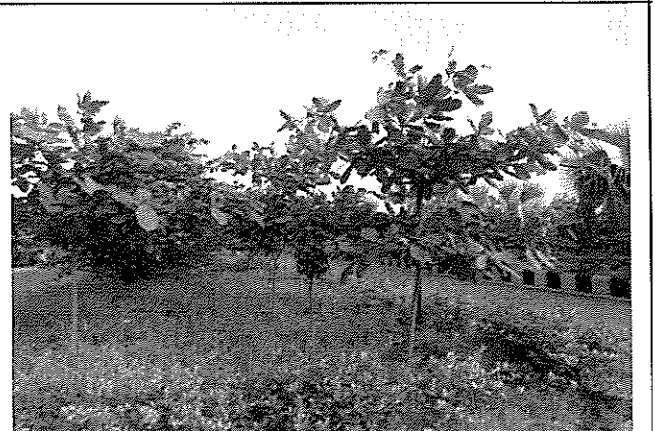
GPS Point	
Latitude	Longitude
13°11'32.15"N	80°15'57.79"E

Greenbelt Under Development with drip irrigation System



Nearly 300 Nos of trees were planted in the company boundaries

We have planted 150 Nos of trees in private land in about 9190sqm land which is adjacent to our entrance from Minjur highway road



Rainwater Harvesting Measures

Rain Water harvesting Tanks have been constructed at the plant for collection of rain water during winter season and recharge of ground water. Rain Water harvesting which increases the ground water level in and around the premises.



Name : Rain water harvesting pond (RWHP-01)	Area : Plant North East Corner
Size : 28 X 28 X 2.3 m (LBD)	Capacity : 1800 m ³
Purpose : Recharging & Reuse for Greenbelt	



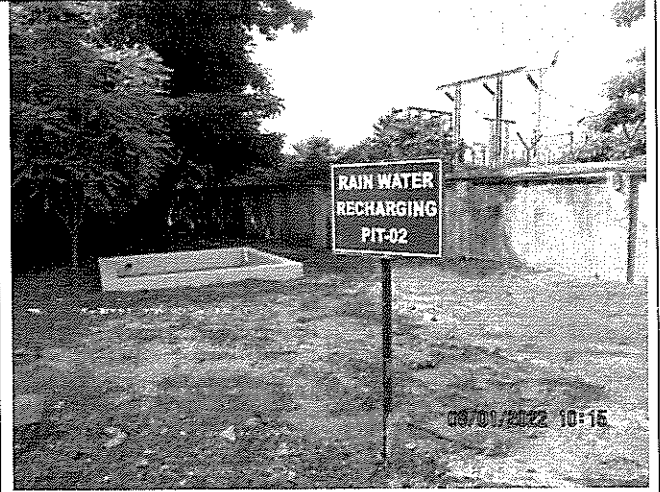
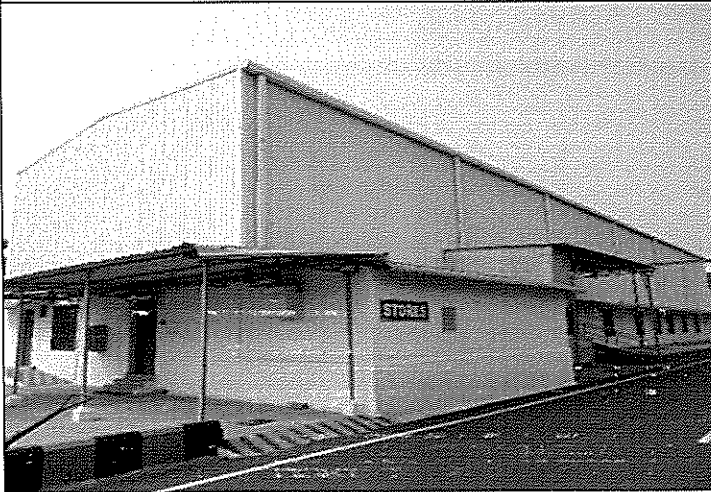
Name : Rain water Recharging Pit (RWHP-02)	Area : Behind Admin Block - North Bay
Size : 2.4 X 3 X 2.5 m (LBD)	Capacity : 23 m ³ /hr (Peak hour harvesting)
Purpose : Recharging of ground water	

PART H

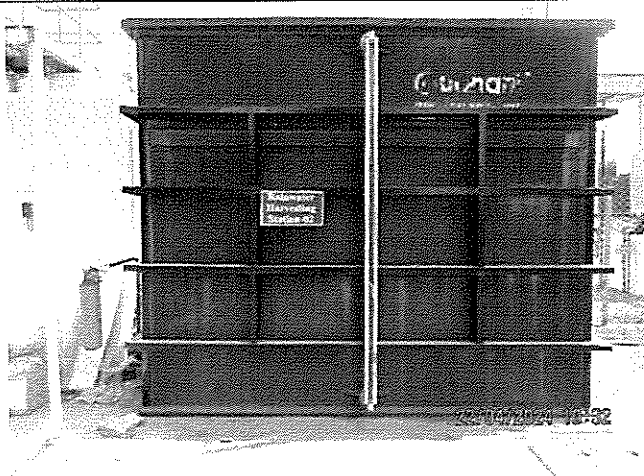
Additional measures /investment proposal for environmental protection including abatement of pollution, prevention of pollution

1. Additional New Rainwater recharging tank has been constructed at the RM stores area to recharging the rainwater to ground water.

RM store roof area



Name : Rain water Recharging Pit (RWHP-03)
Area : Behind RM stores
Size : 2.4 X 3 X 2.5 m (LBD)
Capacity :37 m³/hr (Peak hour harvesting)
Purpose : Recharging of ground water



Rain Water Harvesting Station-03
Capacity: 10 KL HDPE Tank
(Area Power House)



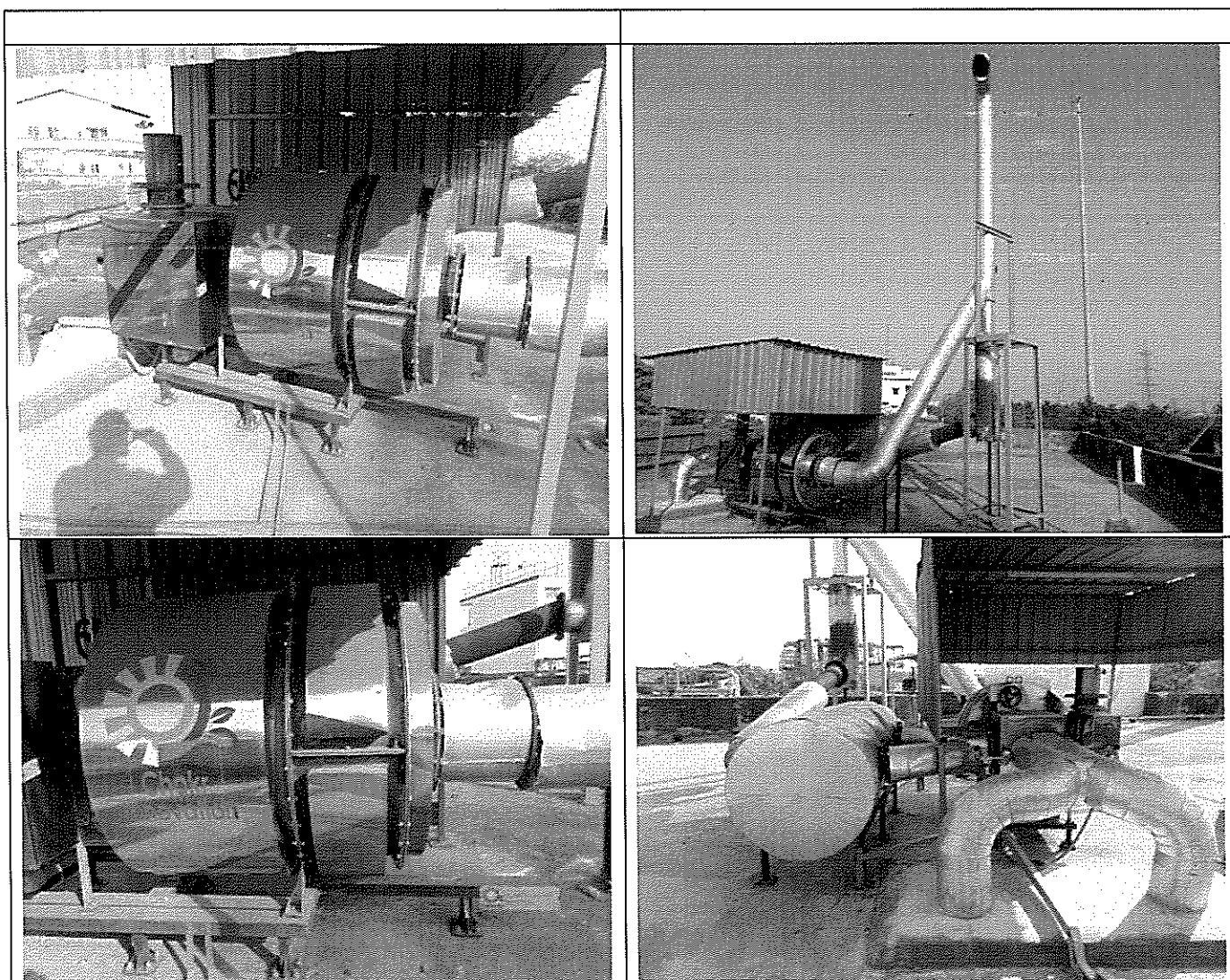
Rain Water Harvesting Station-02
Capacity: 20 KL FRP Tank
(Area Behind QC Block-C)

Reduction of PM Emission in Diesel Generator 1010 KVA

Retrofit installation done for our 1010 KVA DG with approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency supplied by M/s. CHAKR INNOVATION PVT LIMITED with the projected cost of **INR 50 Lacs**

Benefit:

We achieved 73% PM emission reduction in our 1010 KVA DG and found, before retrofit PM emission in our DG is 71.6 mg/Nm³, after the retrofit it has brought down to 19.3 mg/Nm³.



4. As awareness program, slogans on Pollution control, environmental protection, Tree Plantation and energy conservation displayed at the prominent places.

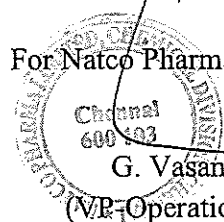
PART I

Miscellaneous

Any other particulars in respect of environmental protection and abatement of pollution:

1. LDAR study done for by our unit through NABL accredited Lab (M/s. GLENS Innovations Lab) & reports are found satisfactory
2. To ensure the Zero Liquid Discharge System (ZLDS) we have provided EMFM at various locations and one CCTV provided in RO plant final discharge point & maintaining the daily log books.
3. Reduction of Emission by substitution of E-Vehicle In-Place of Diesel Vehicle
4. HCL analyzer installed nearby the scrubber area & readings are monitored to ensure the Ambient air limits are complies with the standards
5. For ETP Sludge drying- We Installed Sludge Paddle Drier with wet scrubber facility with project cost of 60 Lacs & bad odour/smell eliminated by engg. controls.
6. The industry is being monitored continuously Fugitive Emissions and Volatile Organic Compounds (VOC's) in the process scrubbers by NABL approved laboratory
7. Additional rain water collection tank installed with capacity of 10 KL (Near power house terrace catchment area-445 sq.meter) & 12 KL tank in Admin. Block terrace catchment area-525 Sq.meter and collected water (expecting 800 m³/annum) shall be used for gardening purposes & cooling tower make up to reduce the fresh water consumption.
8. Awareness program on plastic usage conducted to school students, nearly 600 students benefited from 3 schools.

For Natco Pharma Ltd



G. Vasan

(VR-Operations)