



CRITERIAN- 7.1.4

7.1.4 Water conservation facilities available in the Institution

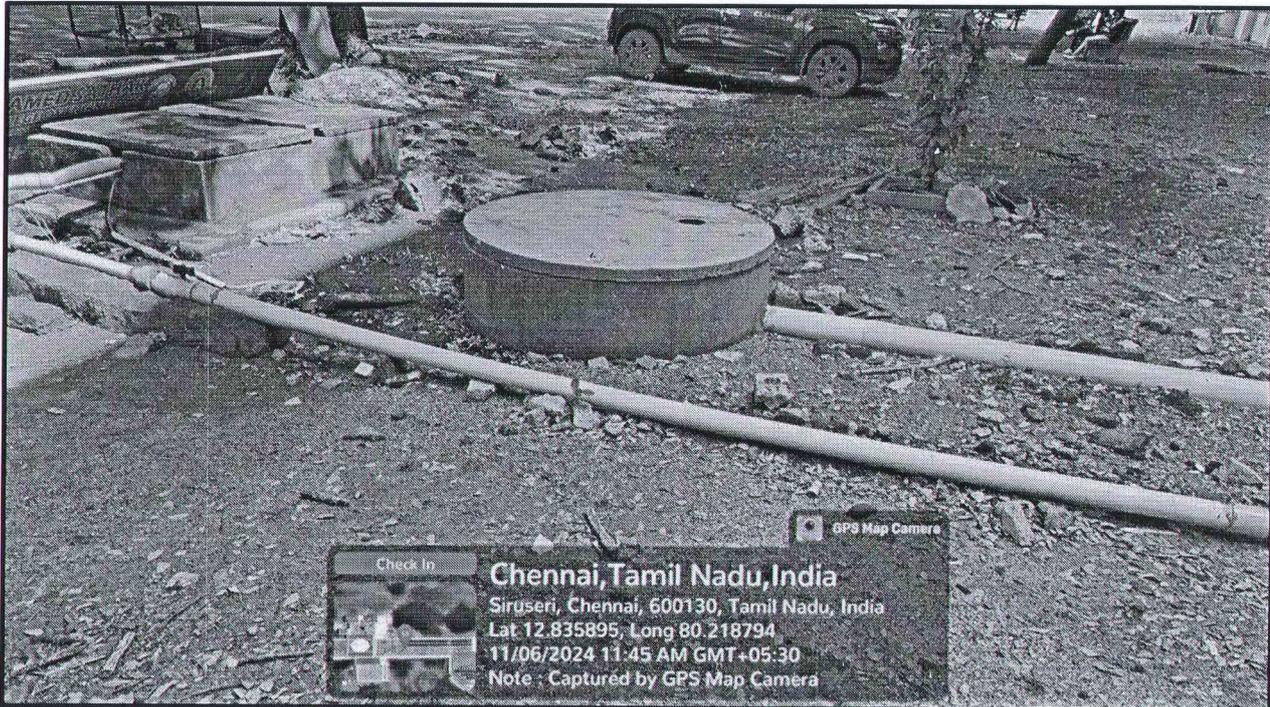
INDEX

S.No	Description
1	Rain Water Harvesting
2	Bore well /Open Well Recharge
3	Construction of Tanks and Bunds
4	Waste Water Recycling
5	Maintenance of Water Bodies and Distribution System in the Campus

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.



1. Rain Water Harvesting



Rain Water Harvesting at Right-Side Wing of the Main Building

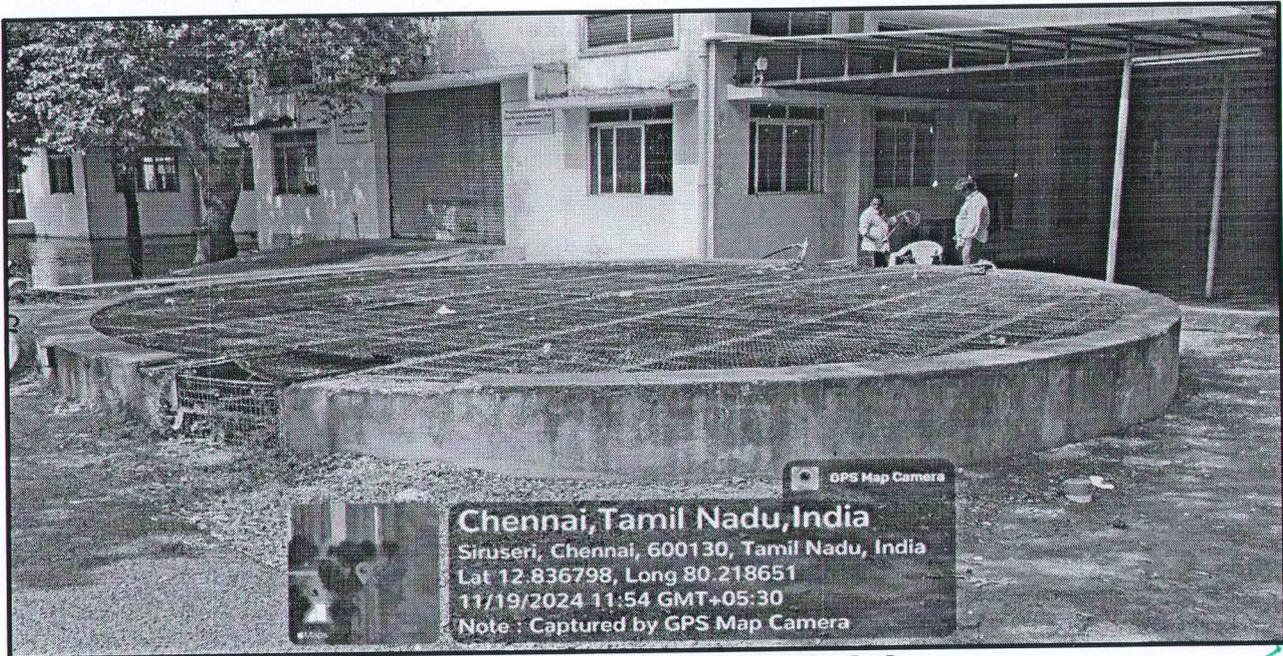


Rain Water Harvesting at Right-Side wing of the Main Building



2. Bore well /Open Well Recharge

For our Institution Water supply to Main Campus Building, Boys Hostel 1&2 and Hostel Mess are provided from the two open well recharge pit near workshop and boys Hostel. Nearly 20,000 to 25,000 liters of water are used every day. In order to recharge the open wells pits were constructed in different dimensions with coarse gravel for adequate infiltration of water. This helps in increasing the ground water level.



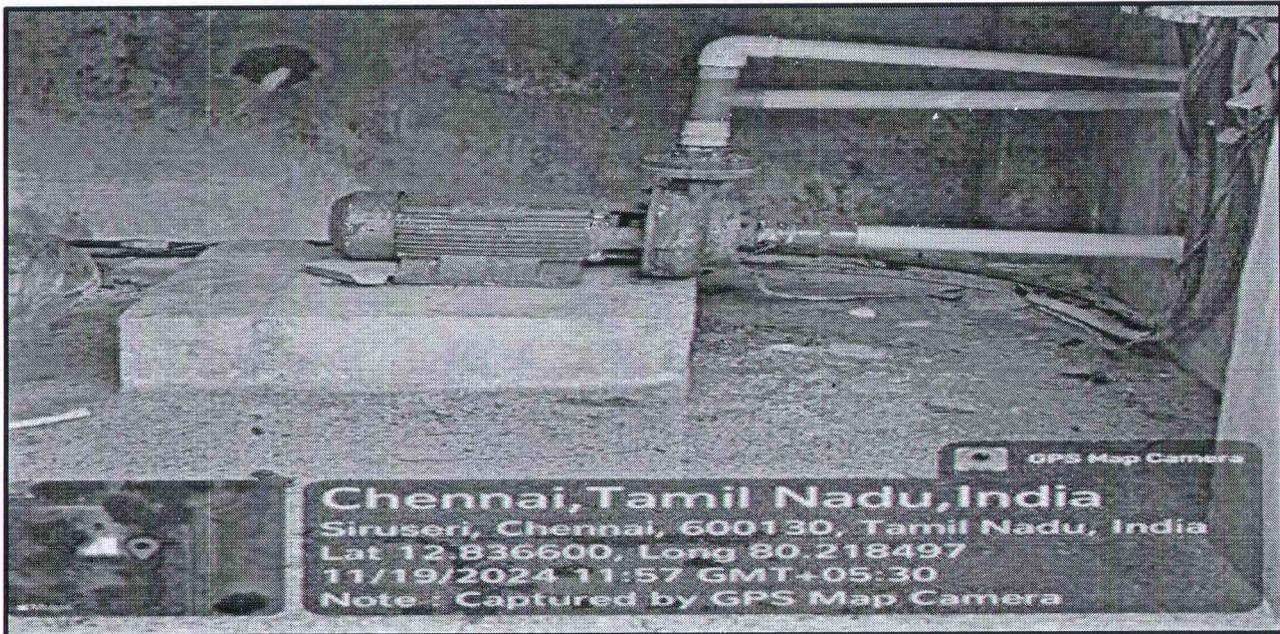
Open Well Recharge near Workshop

1081



Open Well Recharge Pits near Boys Hostel

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No. 36, Pully, Chennai - 600130 (O.M.R.)
Special - IT Highway Location
Chennai - 600130

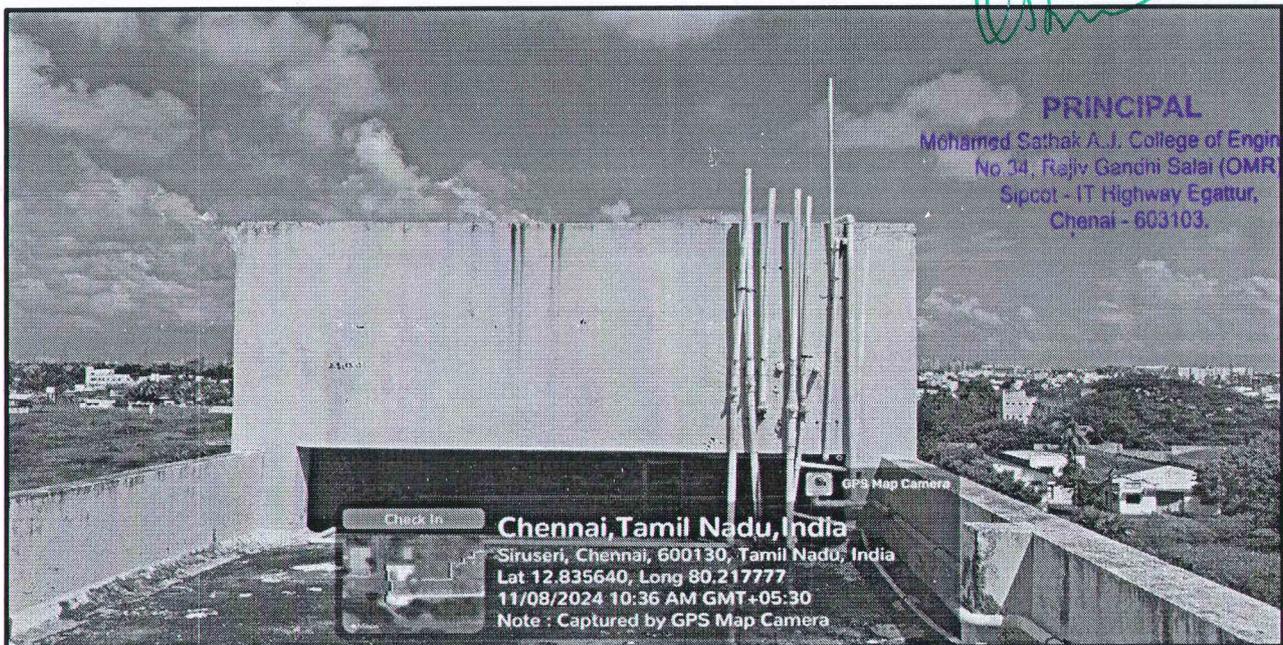


Borewell near Workshop

3. Construction of Tanks and Bunds

The Institution has built over head tanks in all the building. The capacity of the tank varies for each building. The Institution has 18 overhead tanks, few sump and sintex tank in which the Sump tank in Hostel 1 & 2 has the high capacity of 35,000 liters of water. Remaining tanks has the capacity of 22,000 & 5000 liters. Consumption of water changes according to the needs of the People in all these buildings. The Open well is the main source for the total supply of water. Overall capacity of college water tank is 3, 38,500 liters

Mohamed Sathak A.J.



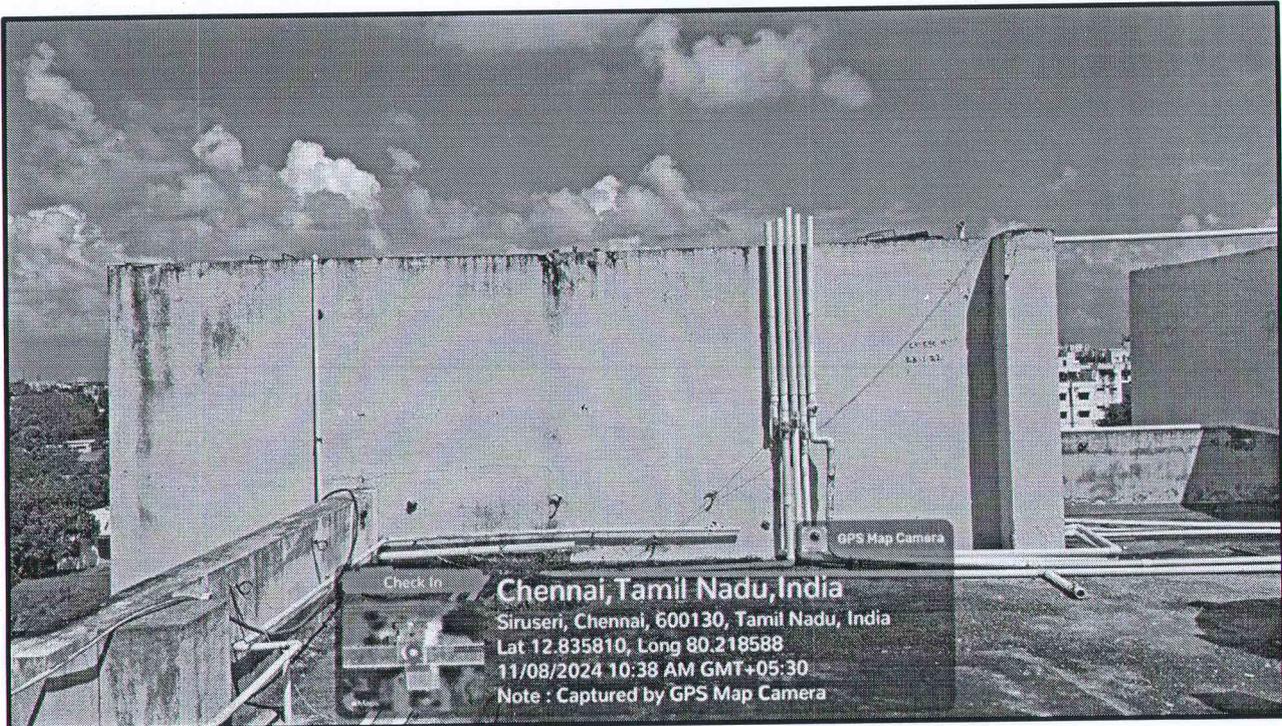
PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
SIPCOT - IT Highway Egattur,
Chennai - 603103.

Water Tank at Left Wing of Main Building



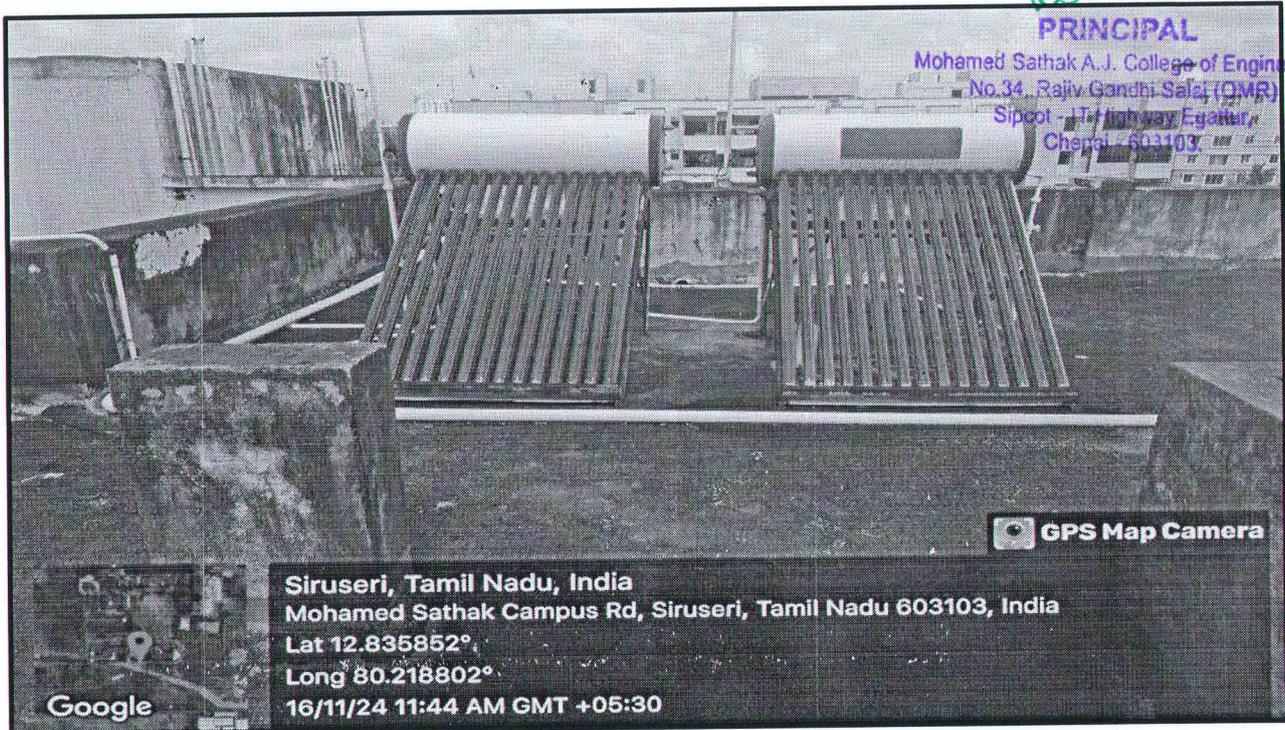
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



Water Tank at Right Wing of Main Building

[Handwritten signature]



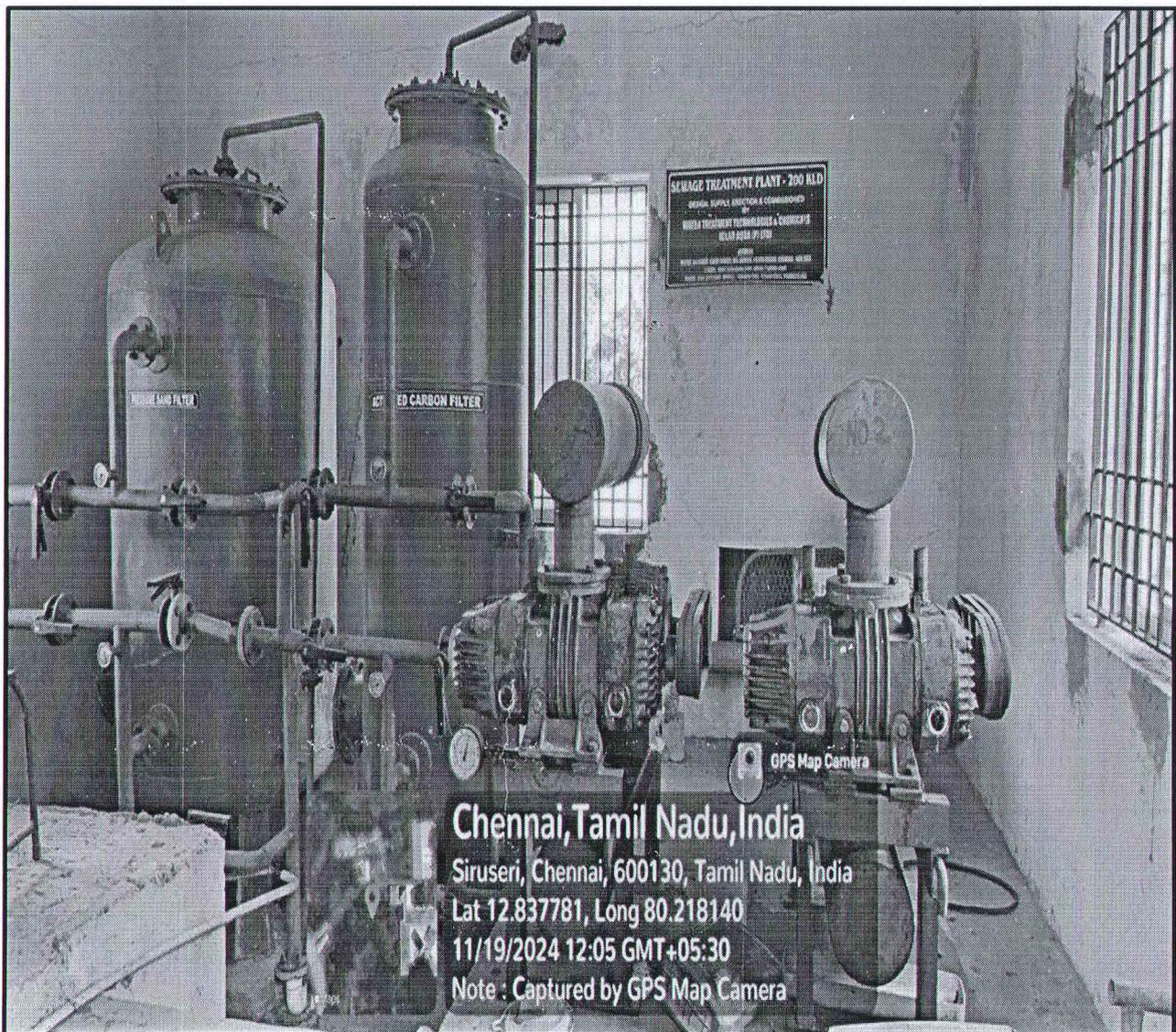
PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Sala, (OMR)
Sipcot - IT Highway, Egmore,
Chennai - 600103.

Water Tank at Right Wing of Boys Hostel



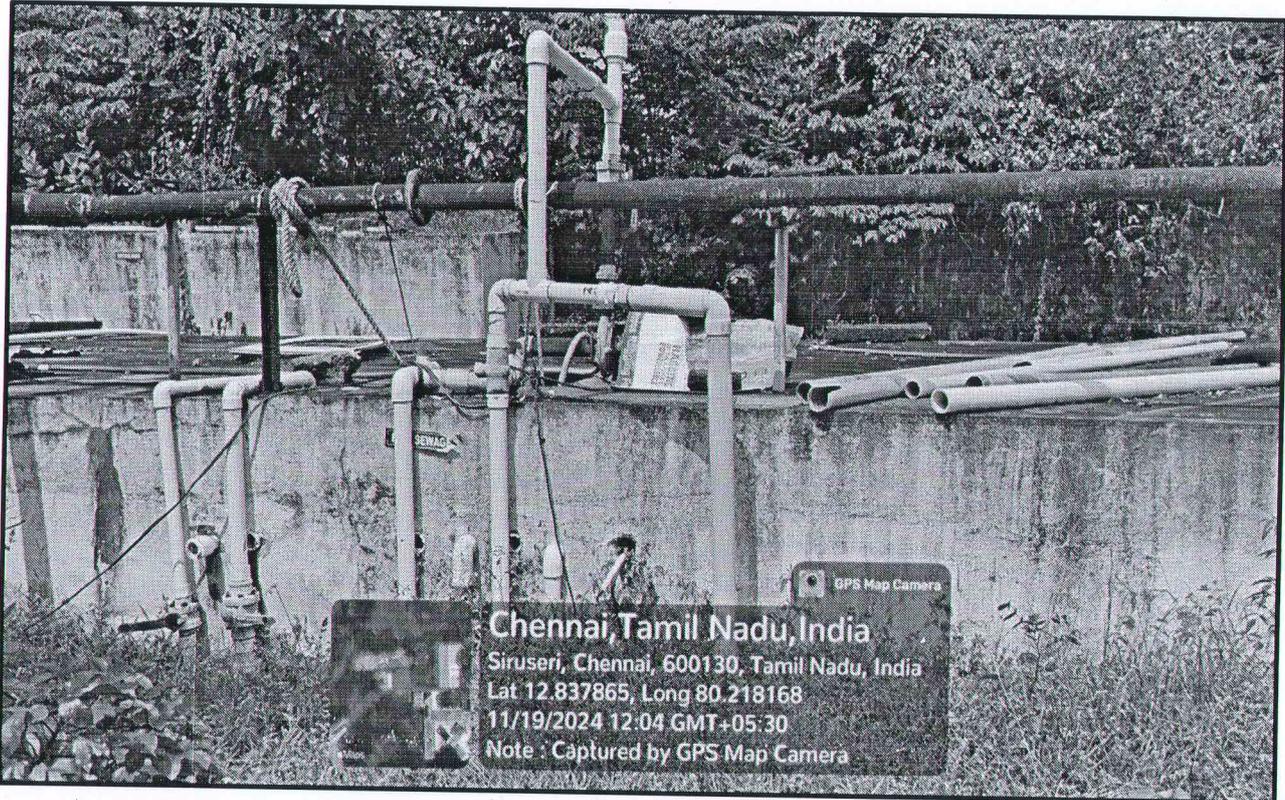
4. Waste Water Recycling

The institution always stresses on the need of saving each and every drop of water. On condition with this, the college has taken initiatives to use the waste water to water the trees. Every day, college needs approximately 10,000 litres of water for the plants. The institution has set up a plant which has the capacity of 25,000 liters of water. The recycling plant does the work of recycling. Approximately 10,000 litres of water recycle every day which comes from the different building and used for the garden.

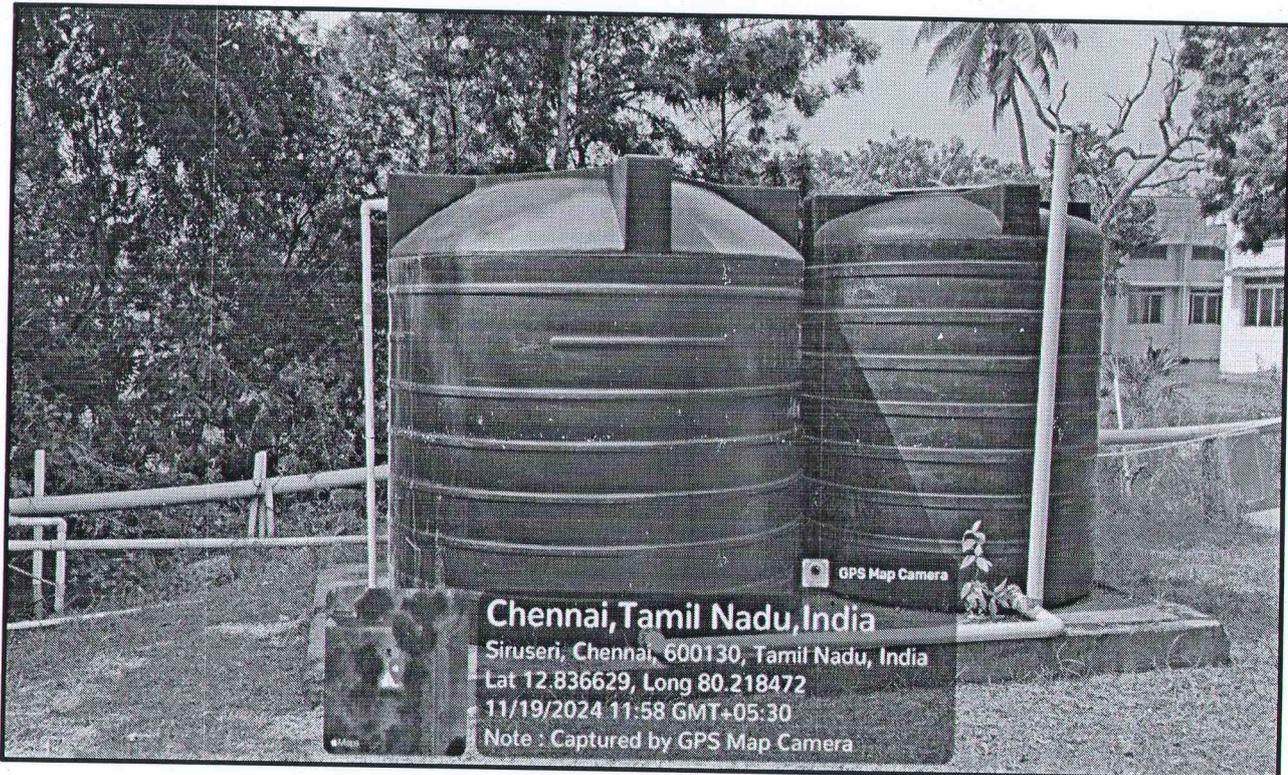


Sewage Water Recycling - Inside the Plant

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.



Sewage Treatment Plant Beside Hostel III



Waste Water Storage Tank (Sintex) near Workshop



5. Maintenance of Water Bodies and Distribution System in Campus

RO Plant at MSAJCE

In our Institution RO water supply to main building, Boys hostel 1&2 and hostel mess is provided from the RO plant near workshop and boys' hostel. Nearly 15,000 liters of water is used regularly.

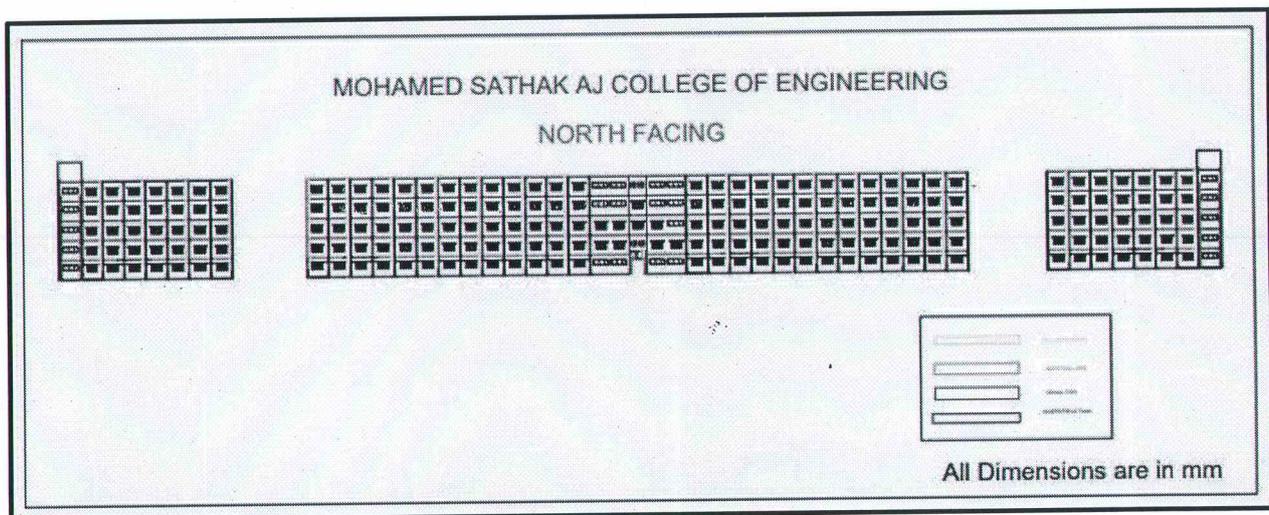
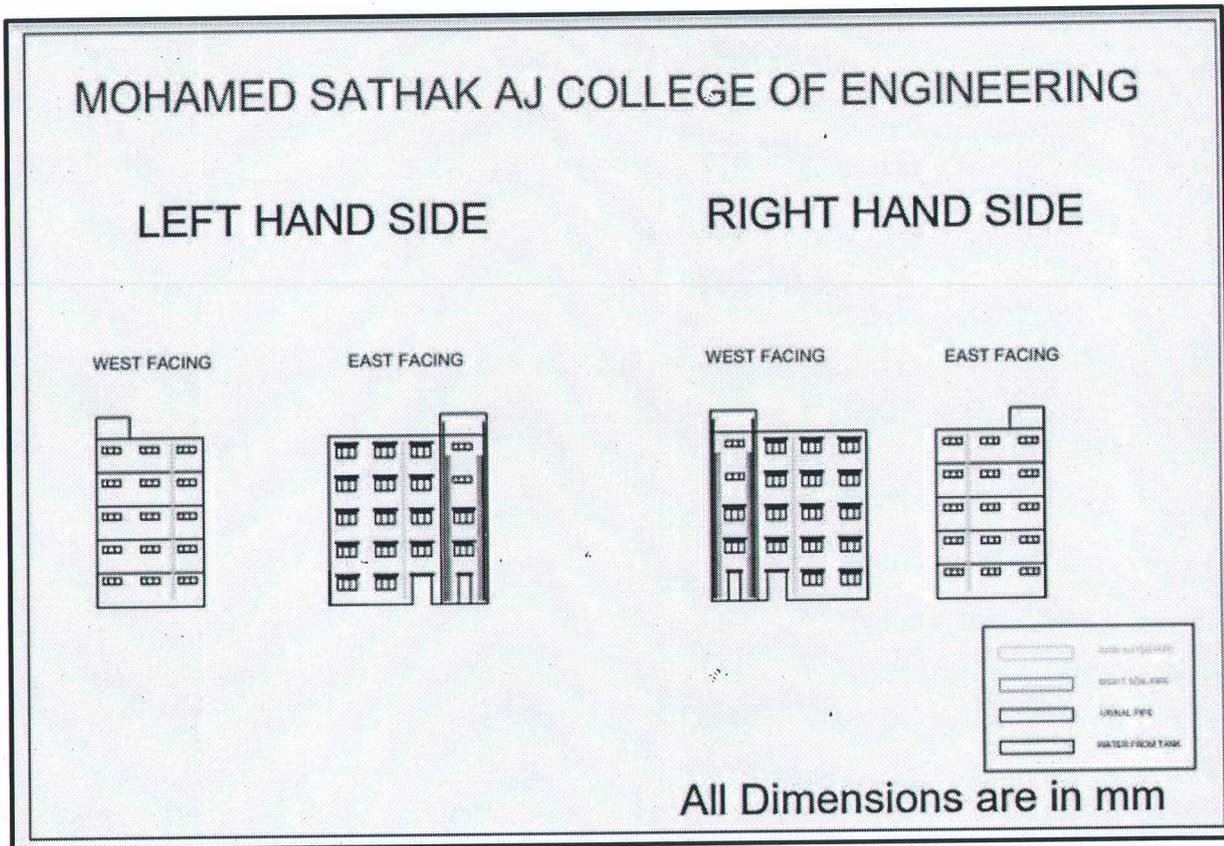


RO Plant near Workshop


PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.



Distribution of Water Pipeline in Main Campus



PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.

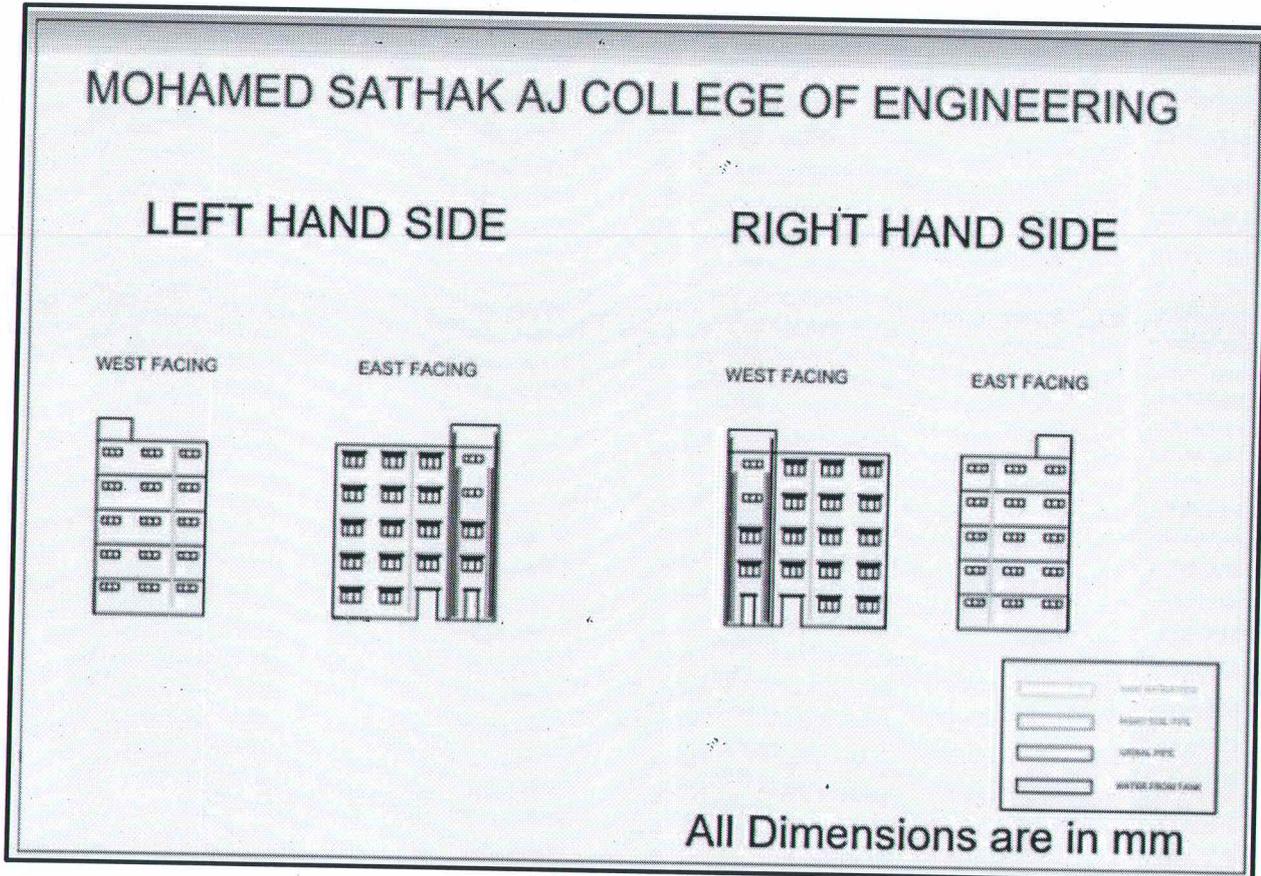


MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



Pictorial Representation of Water Distribution System



PRINCIPAL

Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.

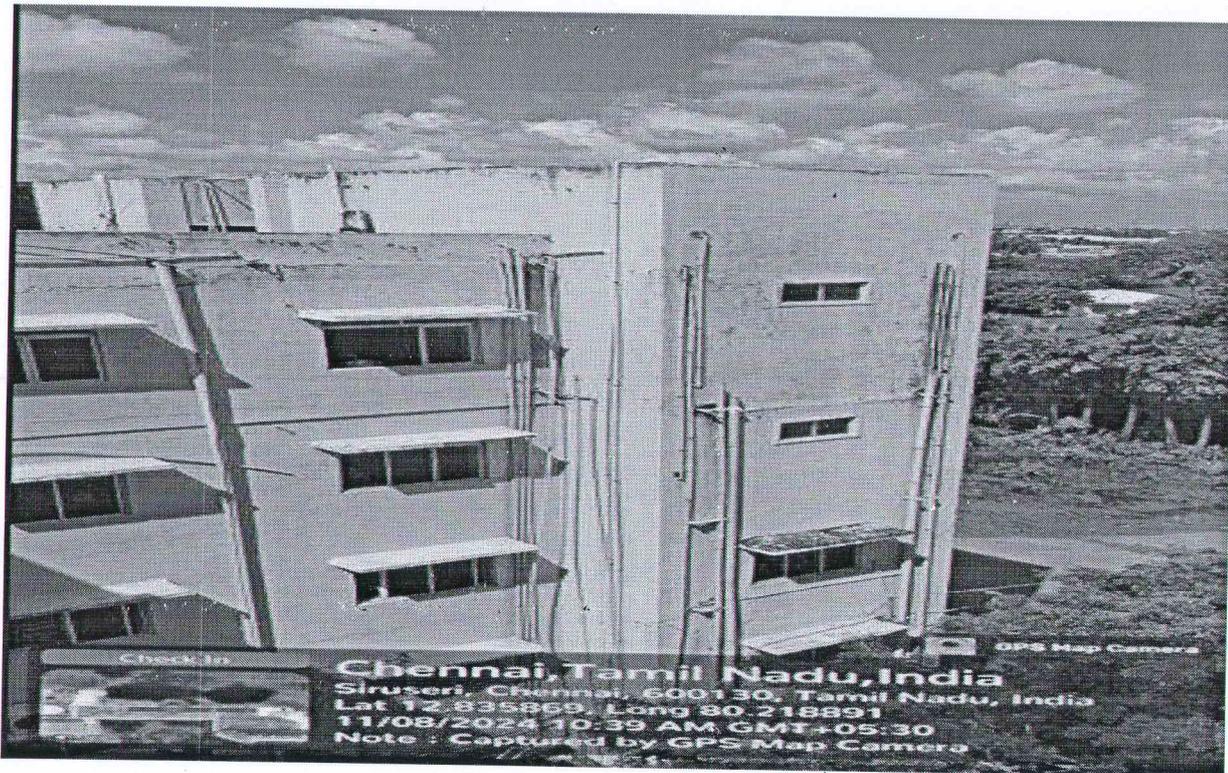


MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



Chennai, Tamil Nadu, India
Siruseri, Chennai, 600130, Tamil Nadu, India
Lat 12.836062, Long 80.218494
11/06/2024 11:40 AM GMT+05:30
Note : Captured by GPS Map Camera



Chennai, Tamil Nadu, India
Siruseri, Chennai, 600130, Tamil Nadu, India
Lat 12.835869, Long 80.218891
11/08/2024 10:39 AM GMT+05:30
Note : Captured by GPS Map Camera

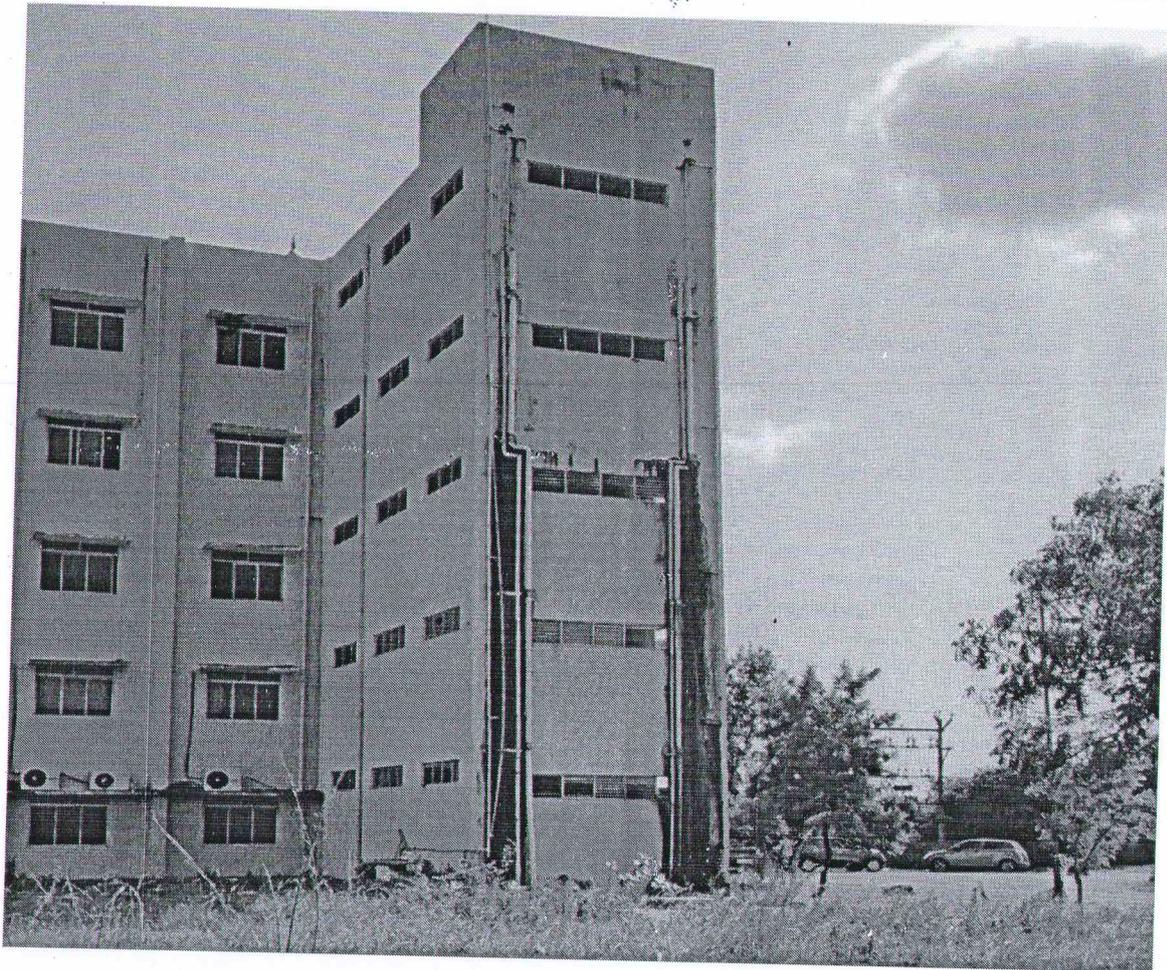
Water Pipelines at Main Building


PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.



MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



Water Pipelines at Main Building

Handwritten signature in green ink

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.



MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



RO Water Test Report



ASIAN ENVIRO LABS PVT LTD

#.1, 200 Feet Pallavaram to Thorapakkam Radial Road,
Zariin Pallavaram, Chennai - 600 043, Tamil Nadu.



TEST REPORT

LRI No: AEL24010266A ULR No: TC1005124003000251F
Report Date: 25.01.2024 Page 1 of 2

CUSTOMER DETAILS
Customer Name & Address: M/s Mohamed Sathak AJ College of Engineering
34, Rajiv Gandhi Road, IT Highway
Egattur - 603 103.
Customer Reference: Test Request dated: 23.01.2024

SAMPLE DETAILS
Product Category: Water
Sample Name: Drinking Water
Sample Code: FE24010147
Sample Description by Customer: RO Water
Sample Received on: 23.01.2024
Sample Quantity & Packing: 1 Ltr X 3 No's
Sample Conditions at Receipt: Fit for Analysis
Sampled by: Laboratory Authorized Sampler
Test Commenced on: 23.01.2024
Testing performed at: Permanent Facility
Test Completed on: 24.01.2024
Information Provided by Customer: --

DETAILS OF SAMPLING
Sample Source: RO Collection Tank
Sampling Procedure: AEL/QAD/SOP/006
Date of Sampling: 23.01.2024
Sample Temperature: 28°C

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirements as per IS 10586:2012	
					Acceptable Limit	Permissible limit in the absence of Alternate Source
1	pH value@25°C	IS 3025 (Part-11):2022	--	6.82	6.5 to 8.5	No Relaxation
2	Electrical Conductivity@25°C	IS 3025 (Part-14):2013	µS/cm	104	--	--
3	Colour	IS 3025 (Part-4):2021	Hazen	< 1	Max 5	Max 15
4	Odour	IS 3025 (Part-5):2018	--	Agreeable	Agreeable	Agreeable
5	Turbidity	IS 3025 (Part-10):2023	NTU	< 1	Max 1	Max 5
6	Total Dissolved Solids@180°C	IS 3025 (Part-16):2023	mg/L	56	Max 500	Max 2000
7	Total Hardness as CaCO ₃	IS 3025 (Part-21):2009	mg/L	12	Max 200	Max 600
8	Calcium as Ca	IS 3025 (Part-40):1991	mg/L	2.42	Max 75	Max 200
9	Magnesium as Mg	IS 3025 (Part-46):1994	mg/L	1.46	Max 30	Max 100
10	Chloride as Cl	IS 3025 (Part-32):1998	mg/L	30.8	Max 250	Max 1000
11	Total Alkalinity as CaCO ₃	IS 3025 (Part-23):2023	mg/L	19.0	Max 200	Max 600
12	Phenolphthalein Alkalinity	IS 3025 (Part-23):2023	mg/L	NIL	--	--
13	Carbonate Hardness as CaCO ₃	IS 3025 (Part-21):2009	mg/L	12.0	--	--
14	Non-Carbonate Hardness as CaCO ₃	IS 3025 (Part-21):2009	mg/L	NIL	--	--
15	Iron as Fe	IS 3025 (Part-53) (1.10 Phenanthroline Method):2003	mg/L	< 0.05	Max 1.0	No Relaxation
16	Sulphate as SO ₄	IS 3025 (Part-24) Sec 1:2022	mg/L	3.10	Max 200	Max 400
17	Nitrate as NO ₃	IS 3025 (Part-34):1988	mg/L	< 2	Max 45	No Relaxation
18	Silica as SiO ₂	IS 3025 (Part-35):1988	mg/L	--	--	--

Asha A
Asha A
TM - Biological
Authorized Signatory
The results are related to the sample tested and this report shall not be reproduced except in full without the written approval of the laboratory.
AEL/QAD/FRM/100/01-00

Principals
Principals
Mohamed Sathak A.J.
TM Chemical
Authorized Signatory
The results are related to the sample tested and this report shall not be reproduced except in full without the written approval of the laboratory.
Sipcot - IT Highway Egattur.

www.asianenvirolabs.com E-mail: #0@asianenvirolabs.com Tel: 91-44-2268 0411, 2268 0511

RO Water Test Report

Principals

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.



MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



AE ASIAN ENVIRO LABS PVT LTD
1, 200 Feet Palavaram to Thirupakkam Radial Road,
Zamin Palavaram, Chennai - 600 043, Tamil Nadu.



TEST REPORT

LRI No: AEL24010266A ULR No: TC1005124000000251F
Report Date 25/01/2024 Page 2 of 2

TEST RESULTS - BIOLOGICAL DISCIPLINE					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirements as per IS 10500:2012
1	Coliform	IS 15185:2016	CFU/100ml	< 1	
2	Escherichia Coli	IS 15185:2016	CFU/100ml	< 1	Shall not be detectable in any 100ml sample

Note: < 1 CFU/100ml is considered as not detected.

Remarks: The above water sample complies with Acceptable Limits of Drinking Water Specification as per IS 10500:2012 with respect to above parameters tested.

End of Report

PRINCIPAL

Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.

Dhasarathan B

TM Chemical

Authorized Signatory

The results are related to the sample tested and this report shall not be reproduced except in full without the written approval of the laboratory.

Asha.A
TM - Biological
Authorized Signatory



The results are related to the sample tested and this report shall not be reproduced except in full without the written approval of the laboratory.

AEL/QAD-FRM/100/01-23

www.asianenvirolabs.com

E-mail: info@asianenvirolabs.com

Tel: (T)-44-2266 0411, 2266 0511

RO Water Test Report

PRINCIPAL

Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.