



CRITERION: 7.1.4

Water conservation Facilities Available in the Institution

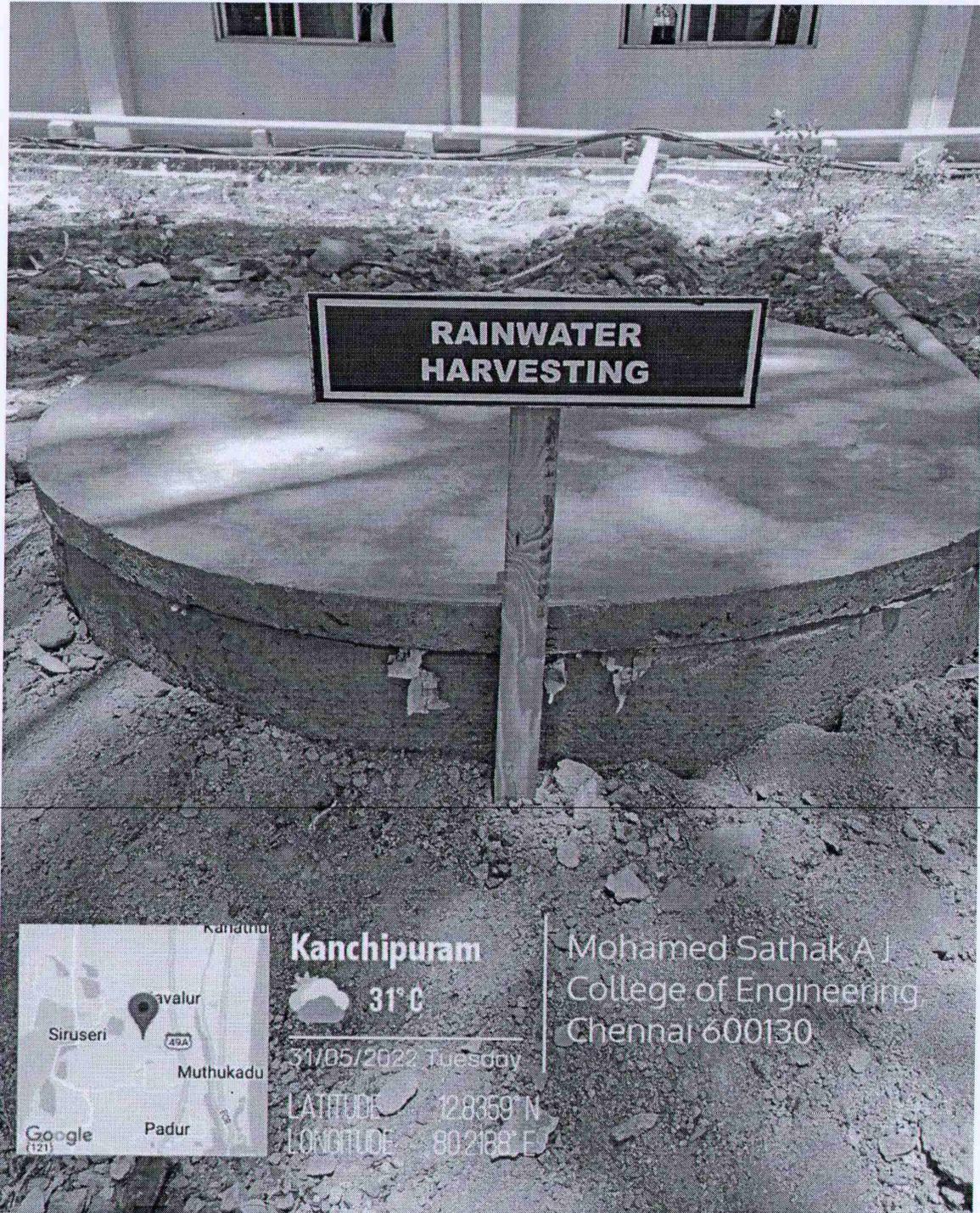
S.No	Department
1	Rain Water Harvesting
2	Borewell/Open Well Recharge
3	Construction of Tanks and Bunds
4	Waste Water Recycling
5	Maintenance of Water Bodies and Distribution System in the Campus

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

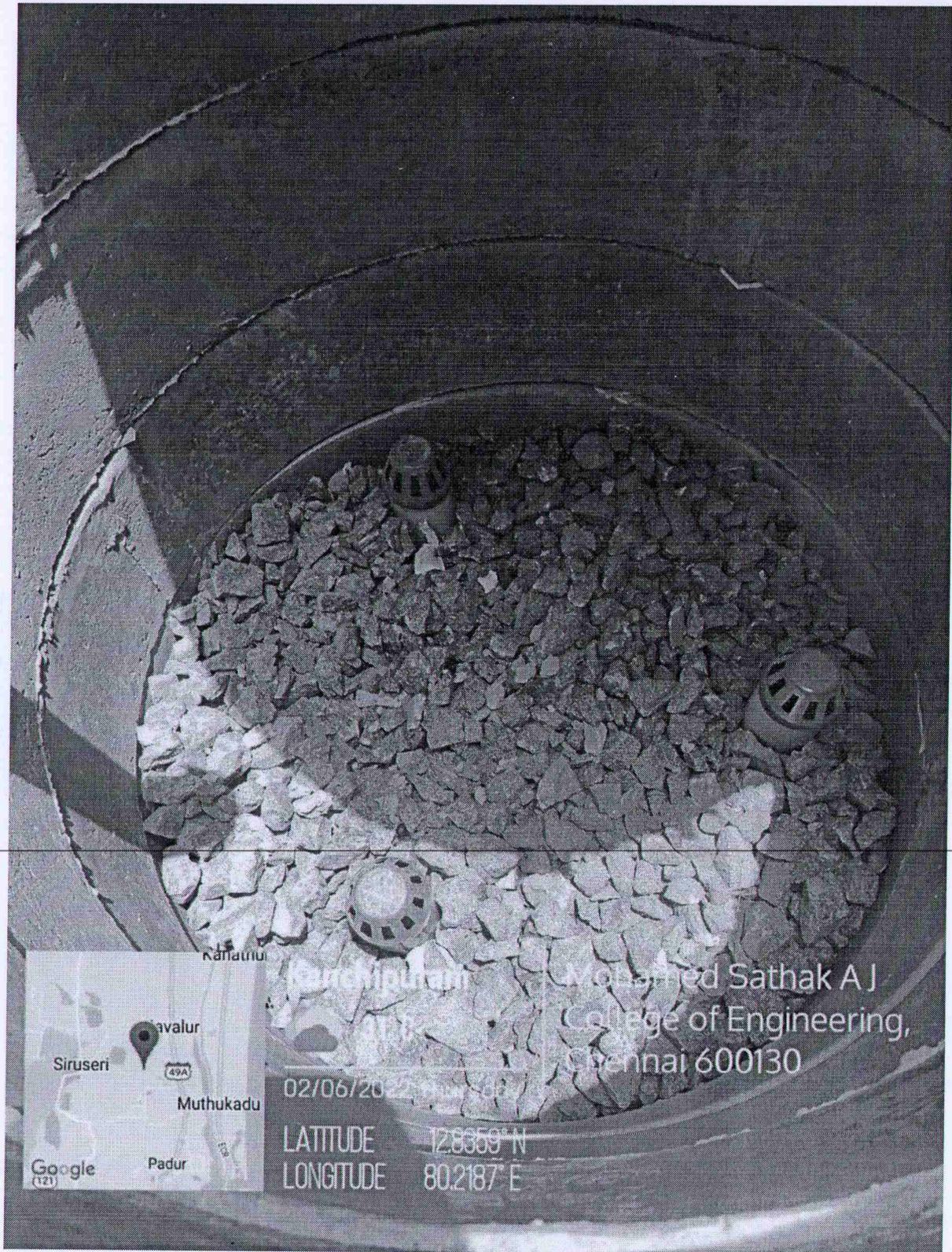
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Chennai - 603103.



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Kanchipuram
Mohamed Sathak A.J.
College of Engineering,
Chennai 600130
02/06/2022
LATITUDE 12.8359° N
LONGITUDE 80.2187° E

Rain Water Harvesting at Left Side Wing of the Main Building

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 **GPS Map Camera**

Siruseri, Tamil Nadu, India
Mohamed Sathak Campus Rd, Siruseri, Tamil Nadu 603103, India
Lat 12.835954°
Long 80.21889°
15/02/24 09:51 AM GMT +05:30

Google

Rain Water Harvesting at Left Side Wing of the Main Building

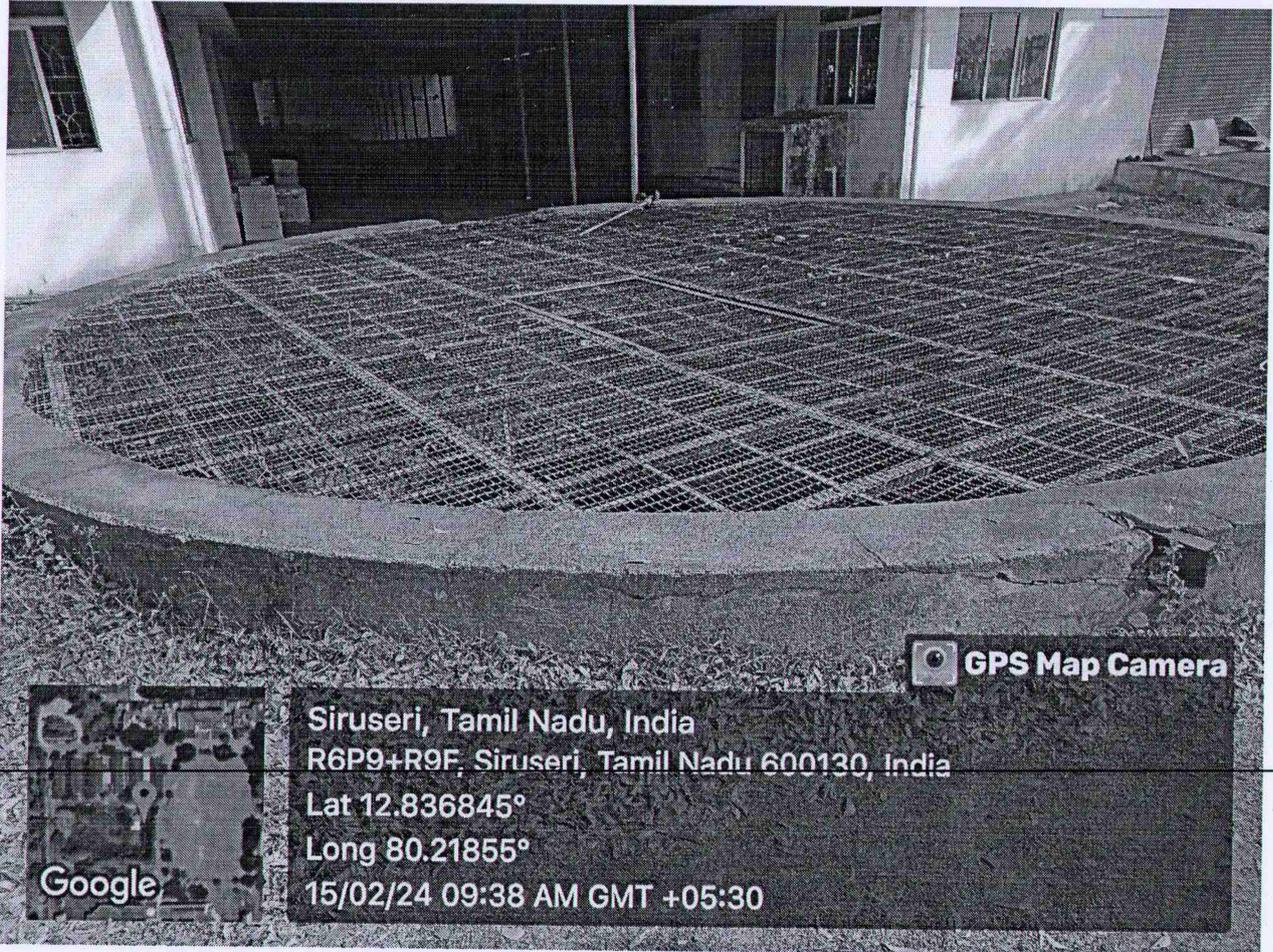
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2. Borewell/Open Well Recharge

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 is 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.



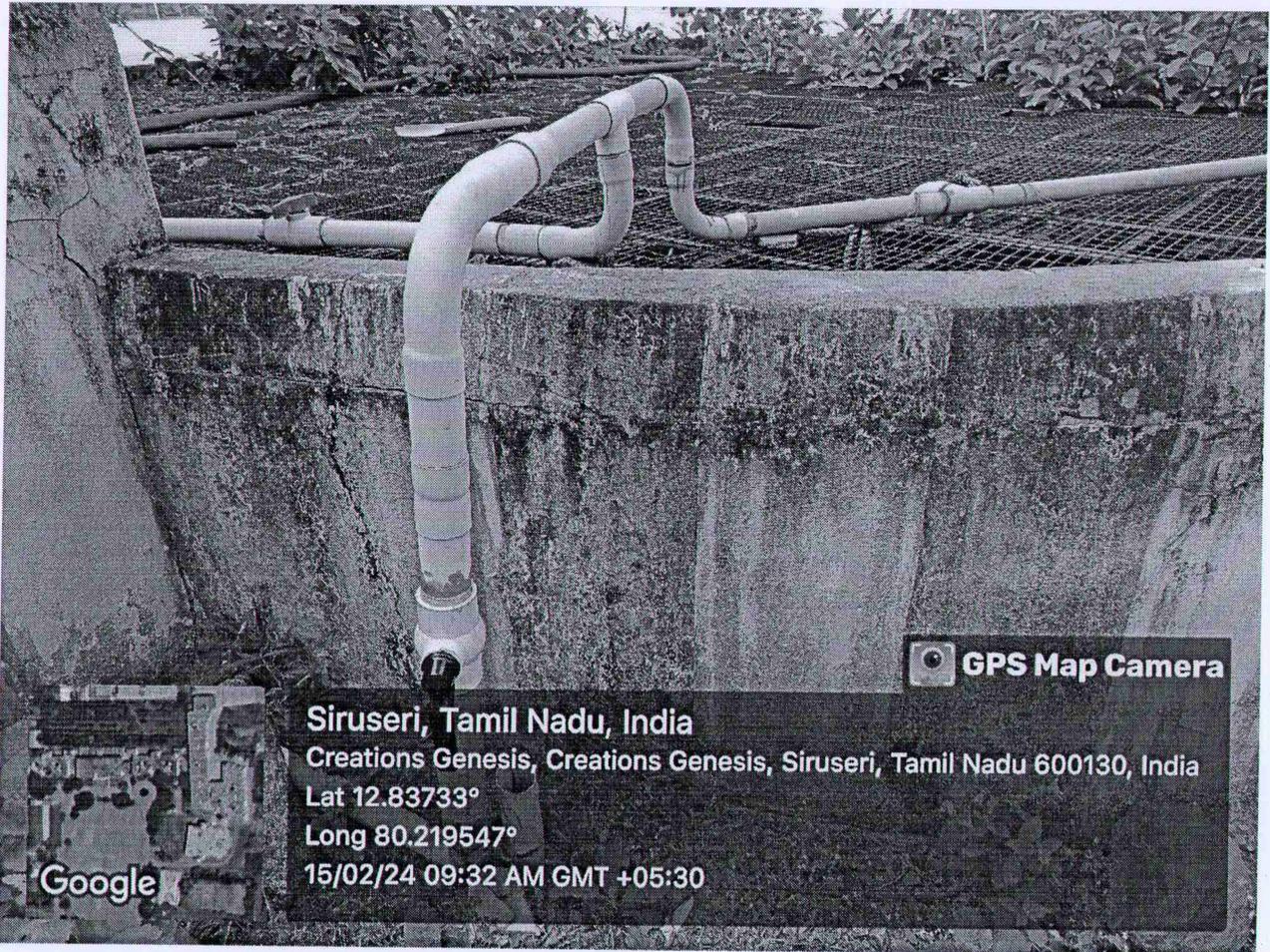
Open Well Recharge System near Workshop

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Siruseri, Tamil Nadu, India

Creations Genesis, Creations Genesis, Siruseri, Tamil Nadu 600130, India

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Open Well Recharge Pits near Boys Hostel

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Bore Well near Workshop

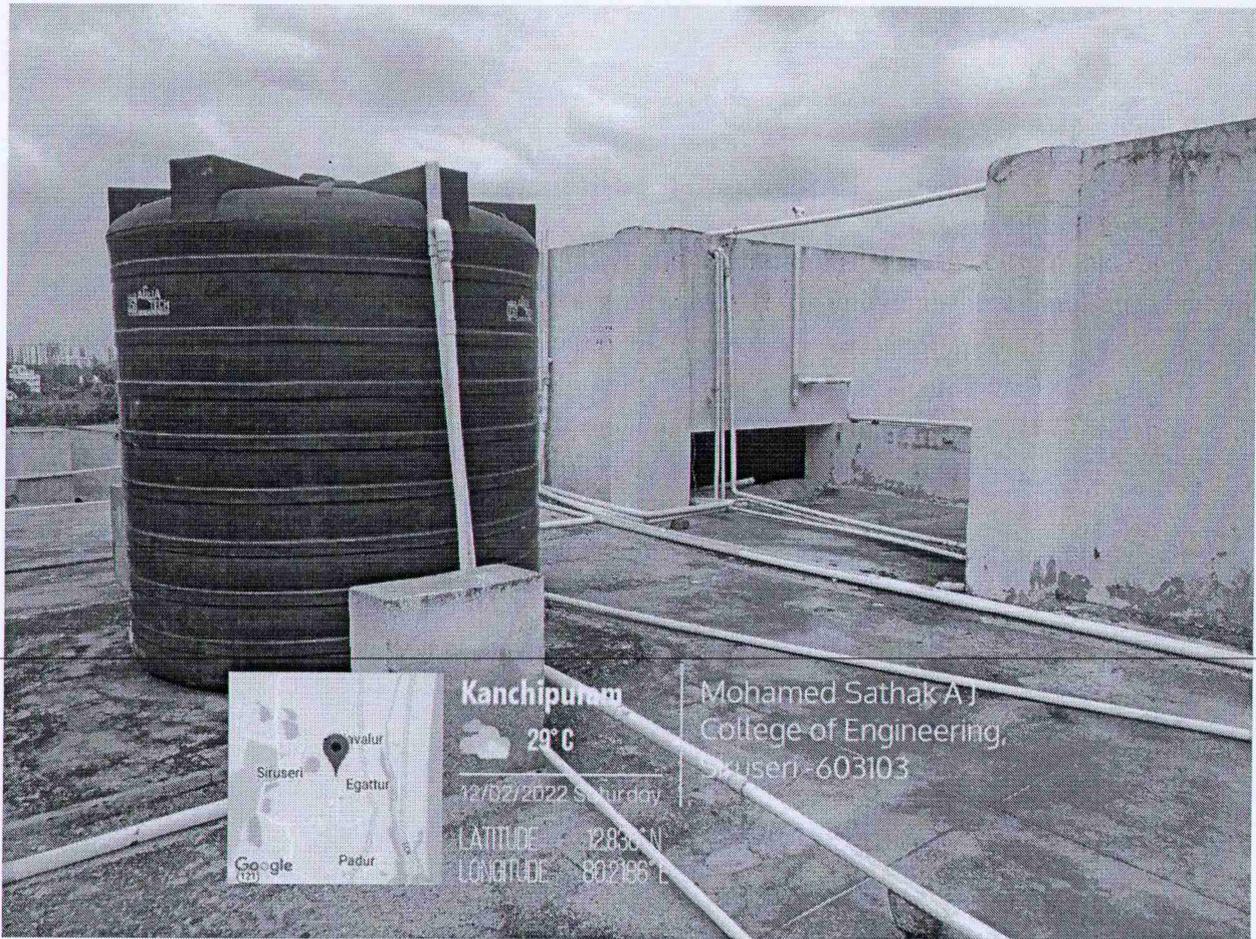
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Chennai - 603103.



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.



Water Tank on Centre Main Building

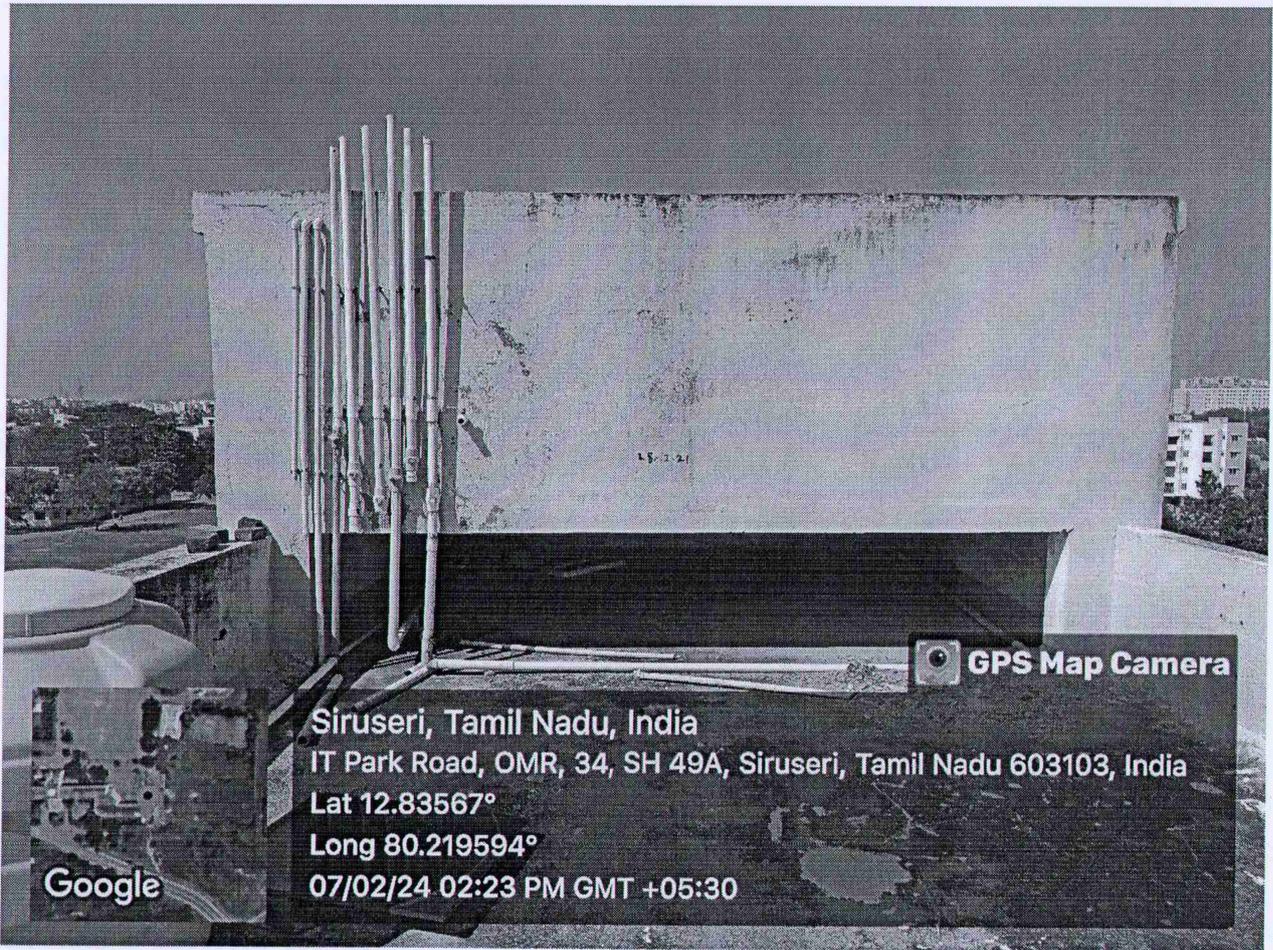
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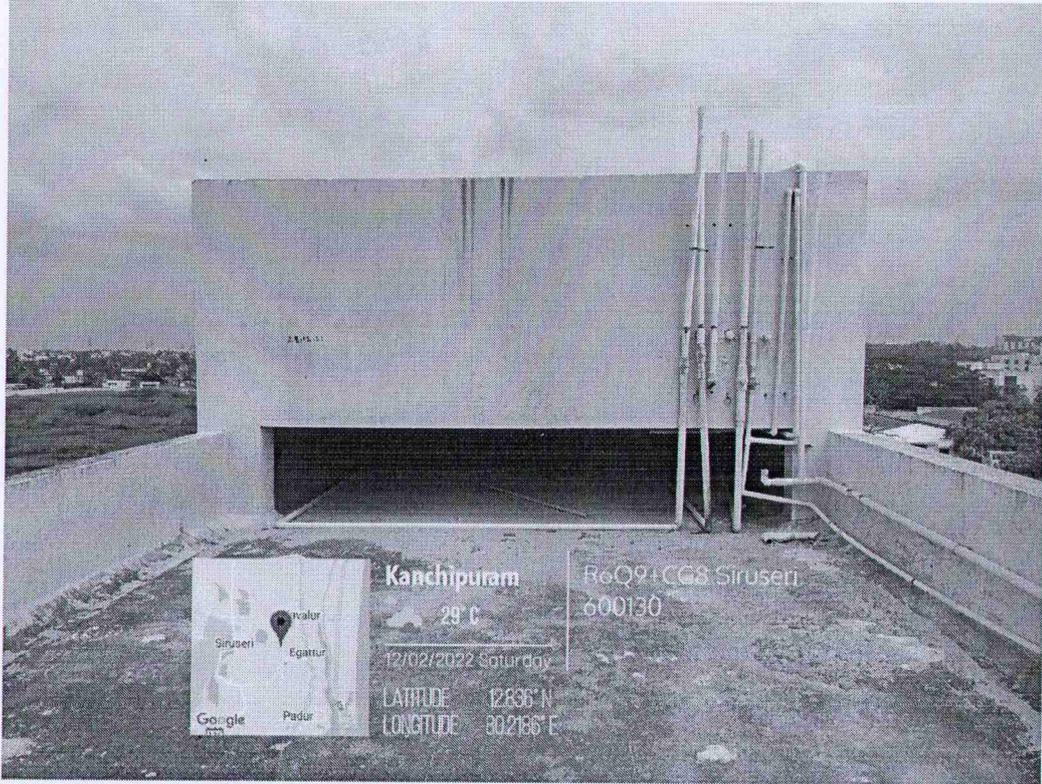
Water Tank on Right Wing of Main Building

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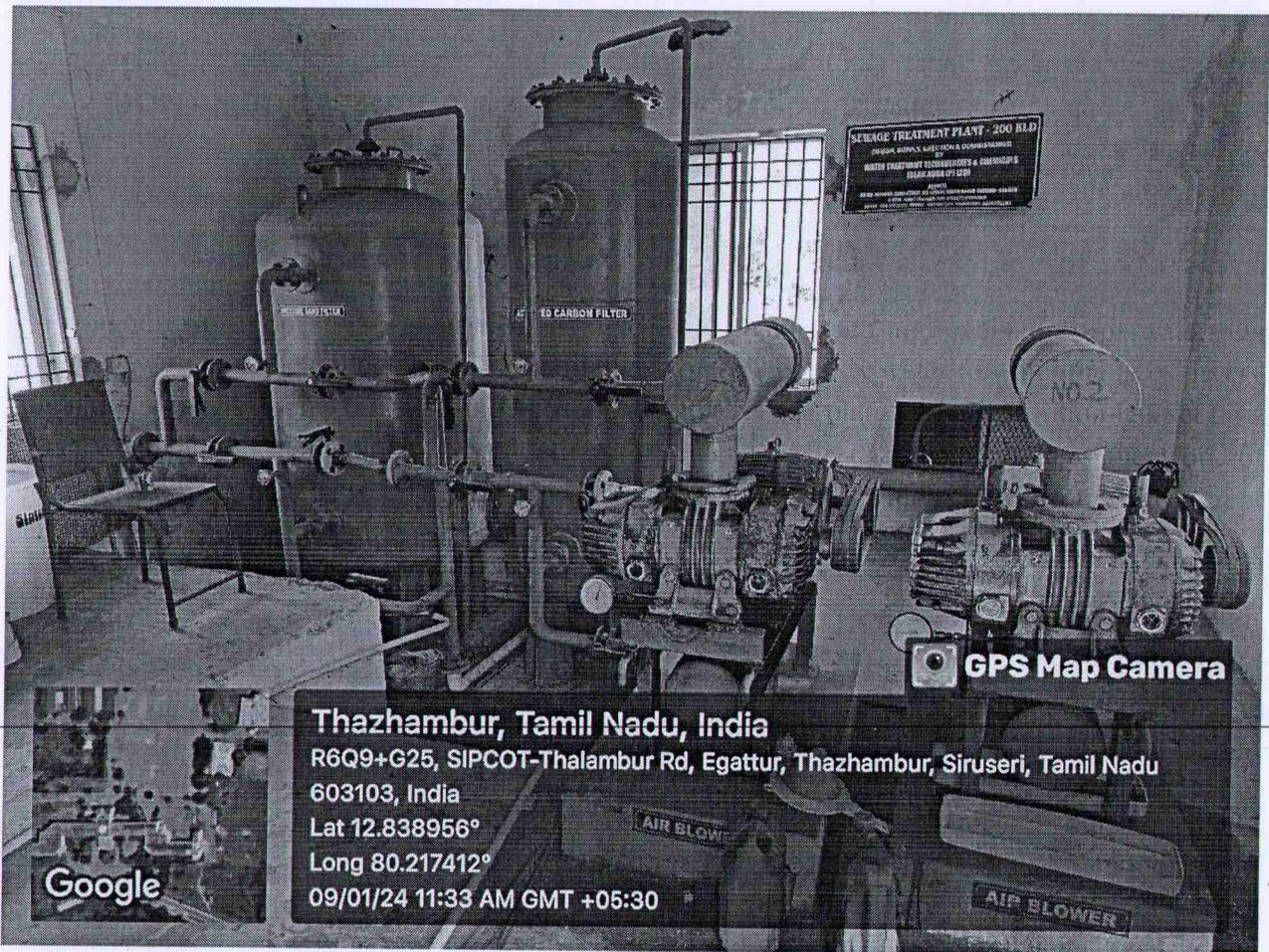
Water Tank on Left Wing of Main Building

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Chennai - 603103.



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 liters 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 liters of water recycle every day which comes from the different building and used for the garden.



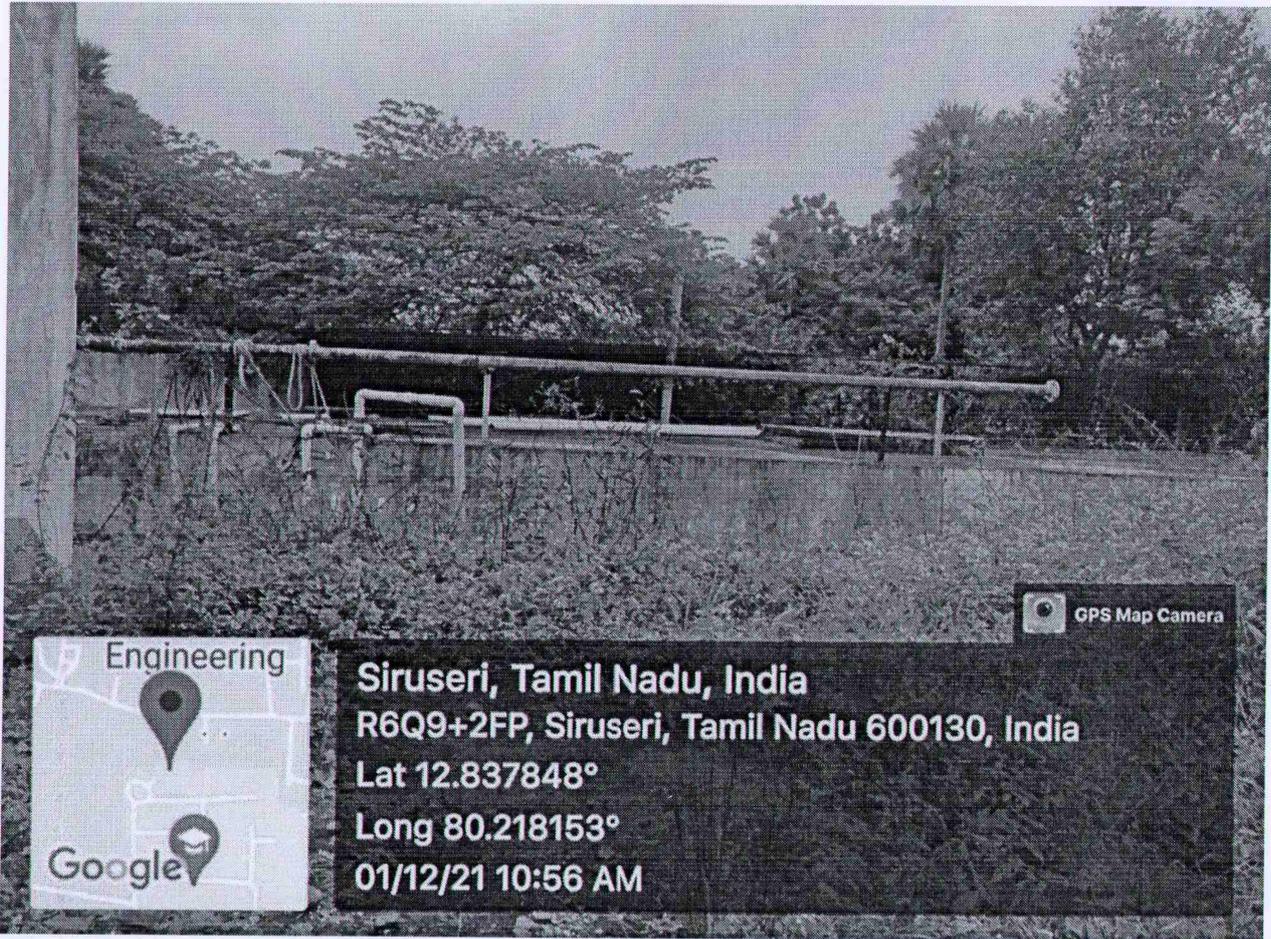
Sewage Treatment Plant Inside

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Sewage Treatment Plant beside Hostel III

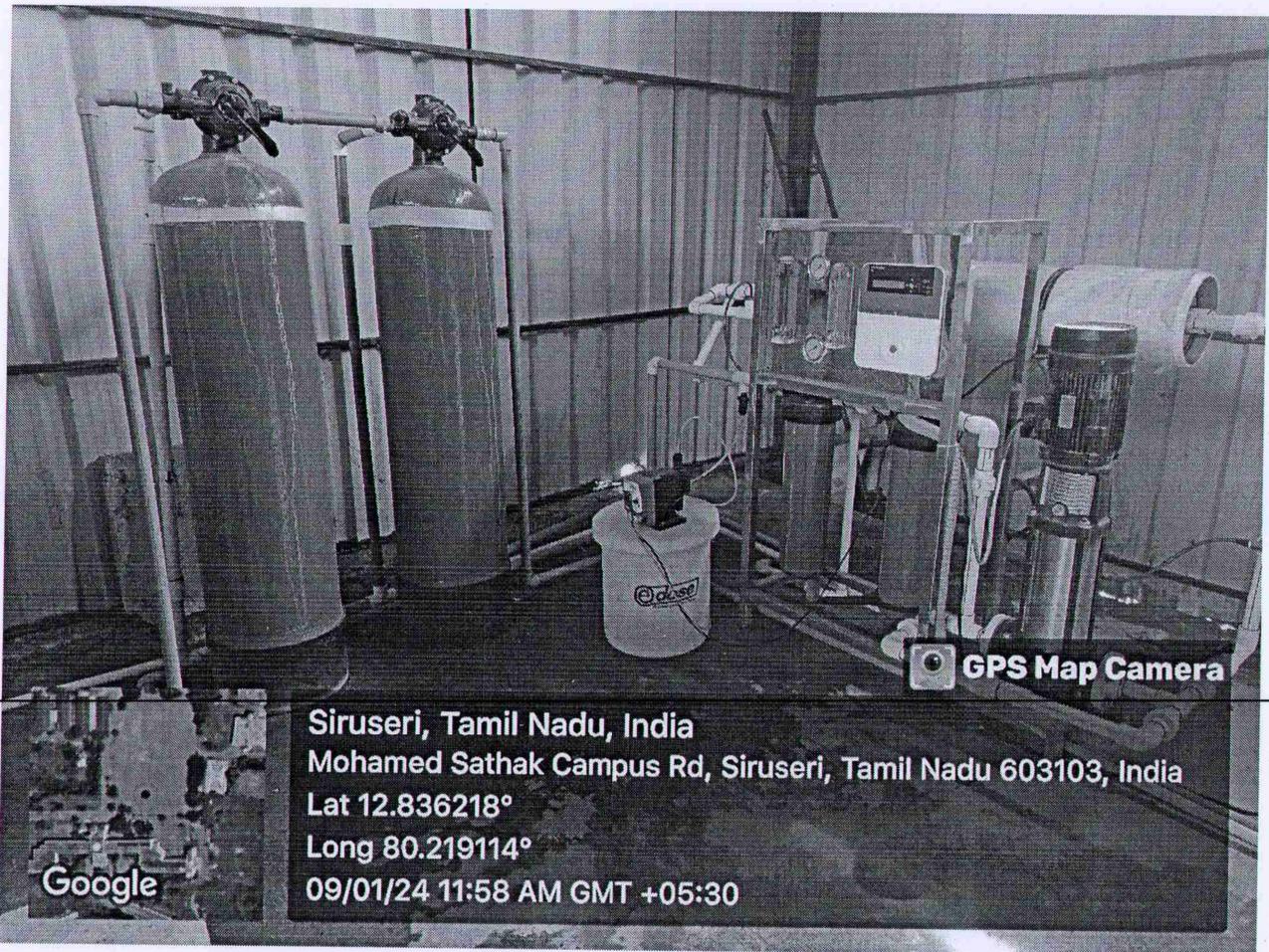
PRINCIPAL
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Chennai - 603103.



5. Maintenance of Water Bodies and Distribution System in Campus

1. RO Plant in our Collège

For our Institution RO Water supply to Main Campus 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

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Chennai - 603103.

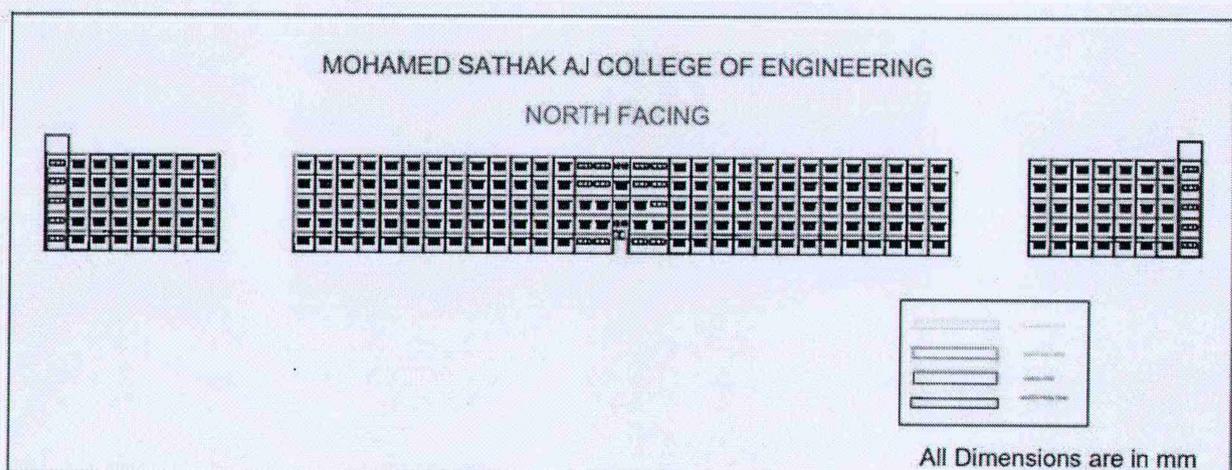
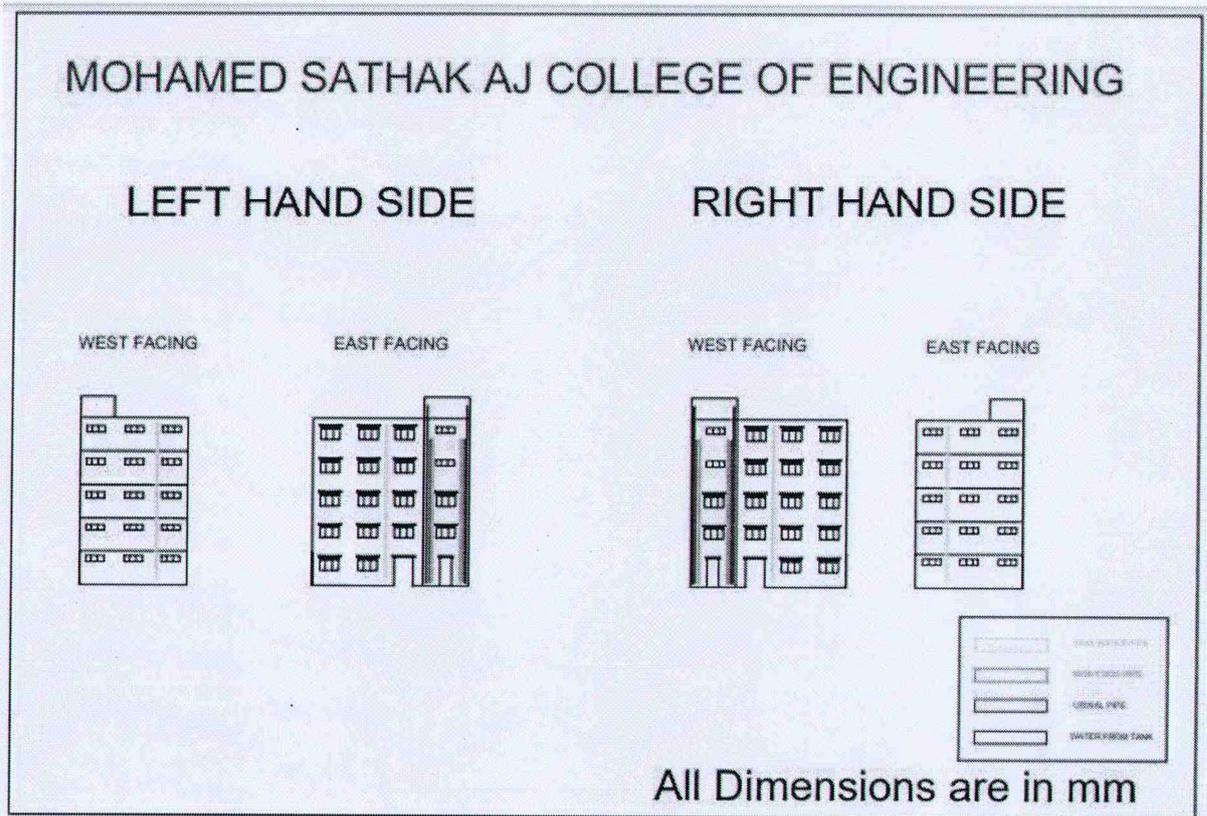


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2. Distribution of Water Pipeline in Main Campus



Pictorial Representation of Water Distribution System

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MOHAMED SATHAK AJ COLLEGE OF ENGINEERING

LEFT HAND SIDE

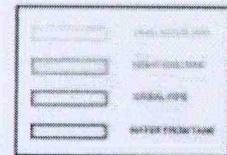
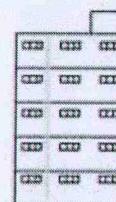
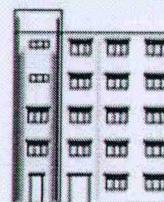
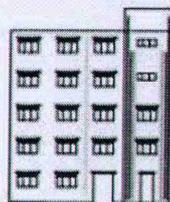
RIGHT HAND SIDE

WEST FACING

EAST FACING

WEST FACING

EAST FACING



All Dimensions are in mm

Pictorial Representation of Water Distribution System

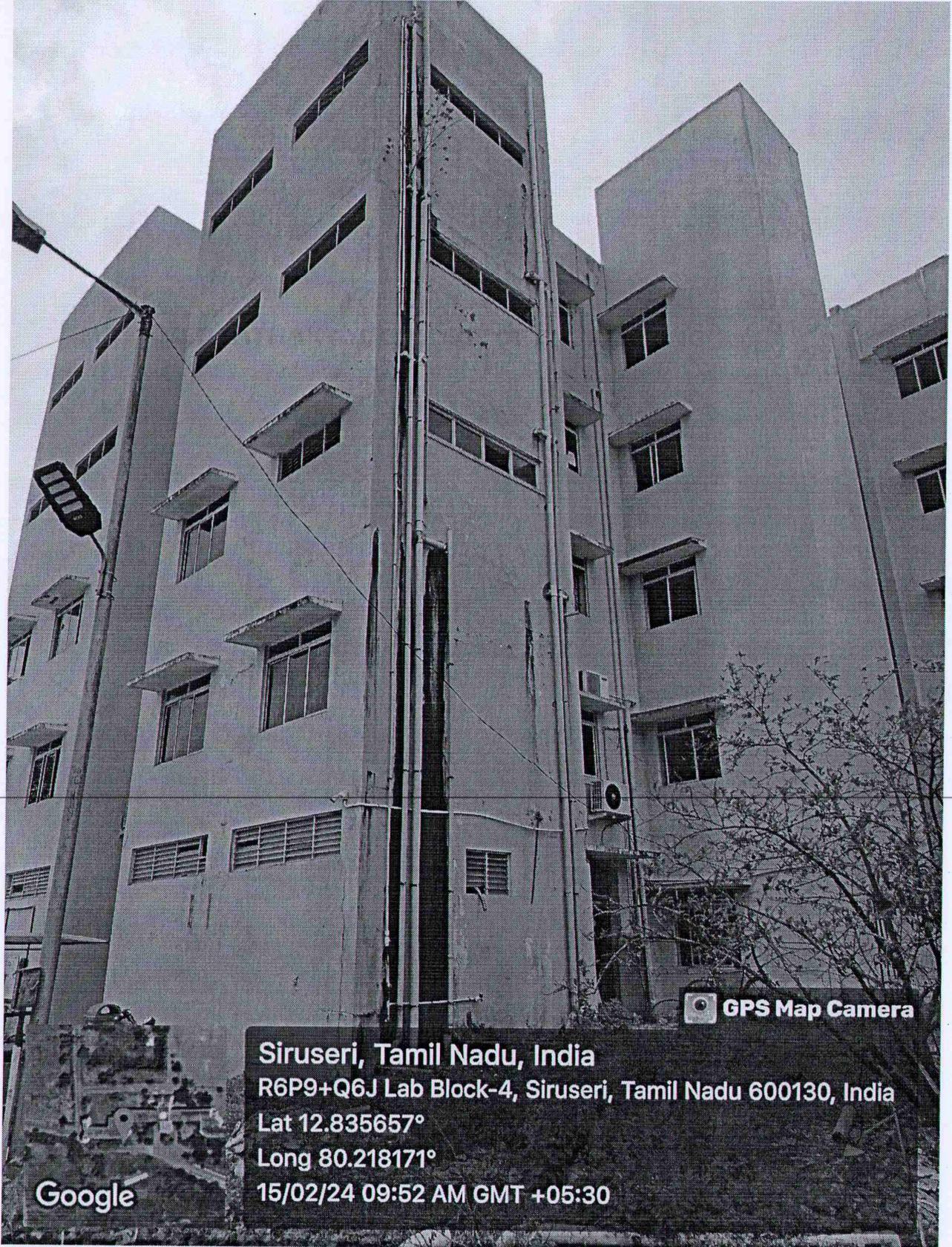
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GPS Map Camera

Siruseri, Tamil Nadu, India
R6P9+Q6J Lab Block-4, Siruseri, Tamil Nadu 600130, India
Lat 12.835657°
Long 80.218171°
15/02/24 09:52 AM GMT +05:30

Google

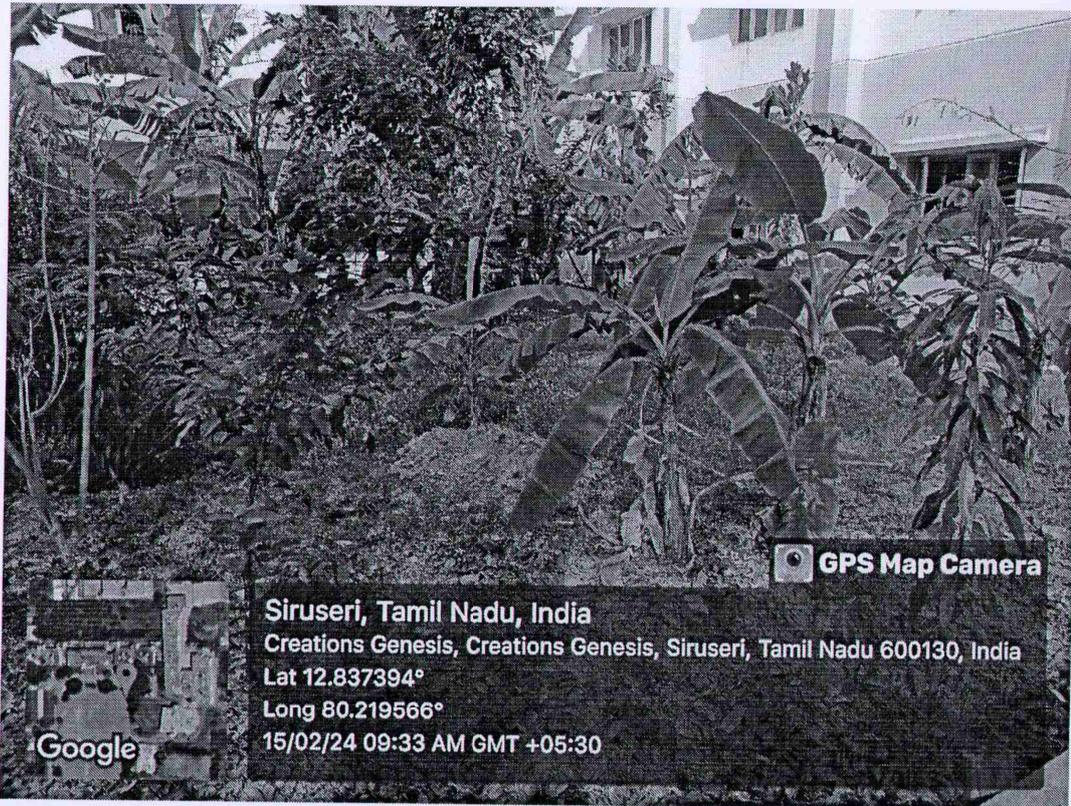
Water Pipeline of Left wing in Main Building

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Creations Genesis, Creations Genesis, Siruseri, Tamil Nadu 600130, India

Lat 12.837394°

Long 80.219566°

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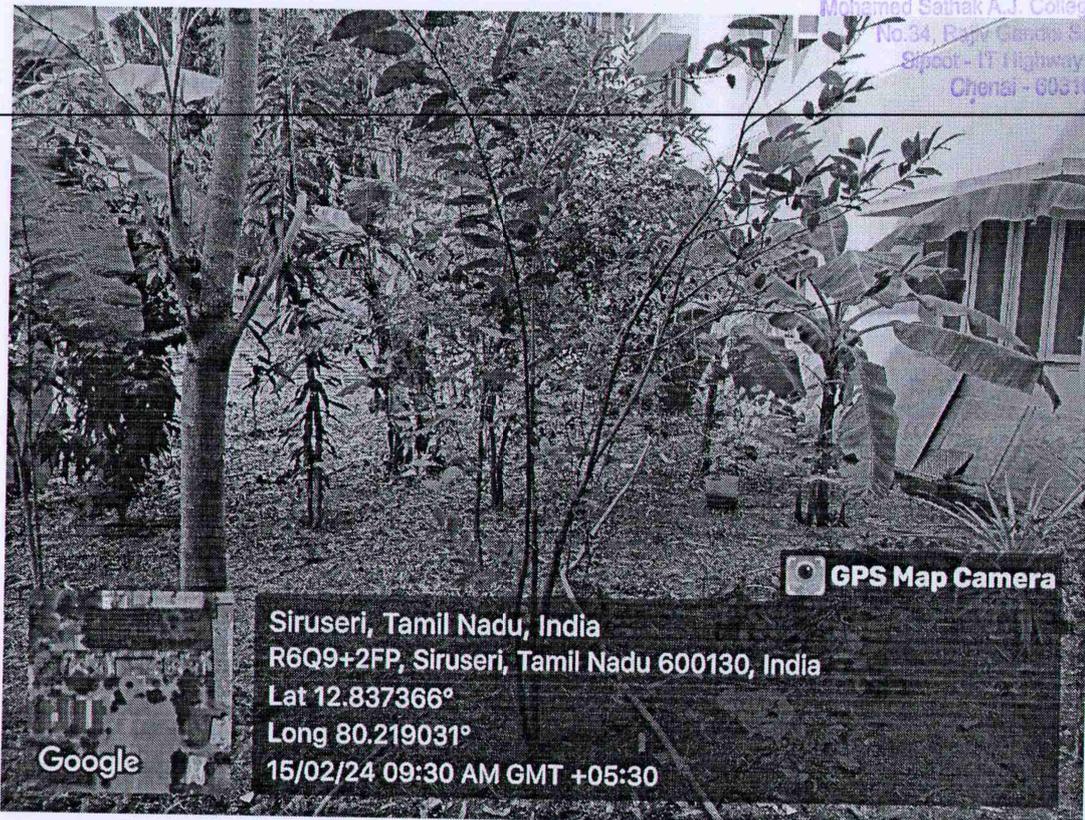
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GPS Map Camera

Photo of Waste Water to Garden

Mohamed Sathak A.J.
PRINCIPAL

Mohamed Sathak A.J. College of Engineering
No.34, Pappan Chinnai Salai (OMR)
Sipoot - IT Highway Egattur,
Chennai - 605103.



Siruseri, Tamil Nadu, India

R6Q9+2FP, Siruseri, Tamil Nadu 600130, India

Lat 12.837366°

Long 80.219031°

15/02/24 09:30 AM GMT +05:30

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Photo of Waste Water to Garden



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Zamin Pallavaram, Chennai - 600 043, Tamil Nadu.



TEST REPORT

ULR No:TC100512400000251F

LRI No: AEL24010266A

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 Code	FD24010147
Sample Name	Drinking Water	Sample Received on	23.01.2024
Sample Description by Customer	RO Water	Sample Conditions at Receipt	Fit for Analysis
Sample Quantity & Packing	1 Ltr X 3 No's	Test Commenced on	23.01.2024
Sampled by	Laboratory Authorized Sampler	Test Completed on	24.01.2024
Testing performed at	Permanent Facility	Information Provided by Customer	-

DETAILS OF SAMPLING

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

TEST RESULTS - CHEMICAL DISCIPLINE

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirements as per IS 10500:2012	
					Acceptable Limit	Permissible limit in the absence of Alternate Source
1	pH value@25°C	IS 3025 (Part-11):2022	--	6.62	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):1988	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):1998	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

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Dhasarathan.B

PRINCIPAL Dhasarathan.B
TM Chemical
Authorized Signatory

Mohamed Sathak A.J. College of Engineering
Sipcot - IT Highway Egattur,

E-mail : info@asianenvirolabs.com

Tel: 91-44-2266 0411, 2266 0511



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Zamin Pallavaram, Chennai - 600 043, Tamil Nadu.



TEST REPORT

ULR No: TC100512400000251F

LRI No: AEL24010266A

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	Shall not be detectable in any 100ml sample
2	Escherichia Coli	IS 15185:2016	CFU/100ml	< 1	

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

Asha.A

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E-mail : info@asianenvirolabs.com

Tel.: 91-44-2266 0411, 2266 0511