



## KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)


ERODE – 638 107

### 7.1.4 WATER CONSERVATION FACILITIES

The following are the geotagged photographs for Water conservation facilities available at the institution:

S.No	Particulars of Water Conservation Facilities	Geotagged Photos Pg. No.
1	Rain Water Harvesting	2-8
2	Borewell /Open well recharge	9-12
3	Construction of Tanks	13-14
4	Waste water recycling	15-16
5	Maintenance of water bodies and distribution system	17-29



  
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### 1. RAIN WATER HARVESTING

The rainwater that flows off in the college areas is collected and stored to recharge the groundwater level. Harvested water is used primarily for the purpose of recharging ground water to overcome the loss of groundwater. It helps us to reduce the floods on roads and mitigate water stagnation inside campus. The storage of rainwater is a traditional technique and the campus has installed nine ground water recharging pits to recharge storm water/rainwater.



Rainwater Harvesting pit at Girls Hostel front side



  
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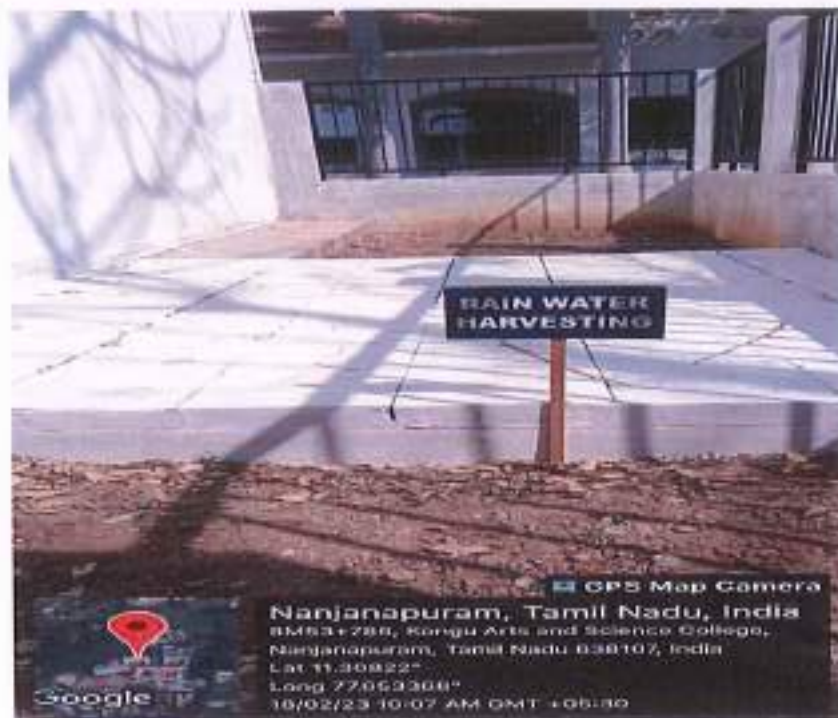
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Rainwater Harvesting pit at Main Building back side



Rainwater Harvesting pit at PG block front side



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Rainwater Harvesting pit at Fitness Centre front side



Rainwater Harvesting pit at Library block west side



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Rainwater Harvesting pit at Biochemistry Lab front side



Rainwater Harvesting pit at Stitching Lab back side



  
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Rainwater Harvesting pit at near open well



Rainwater Harvesting pit at Staff Quarters



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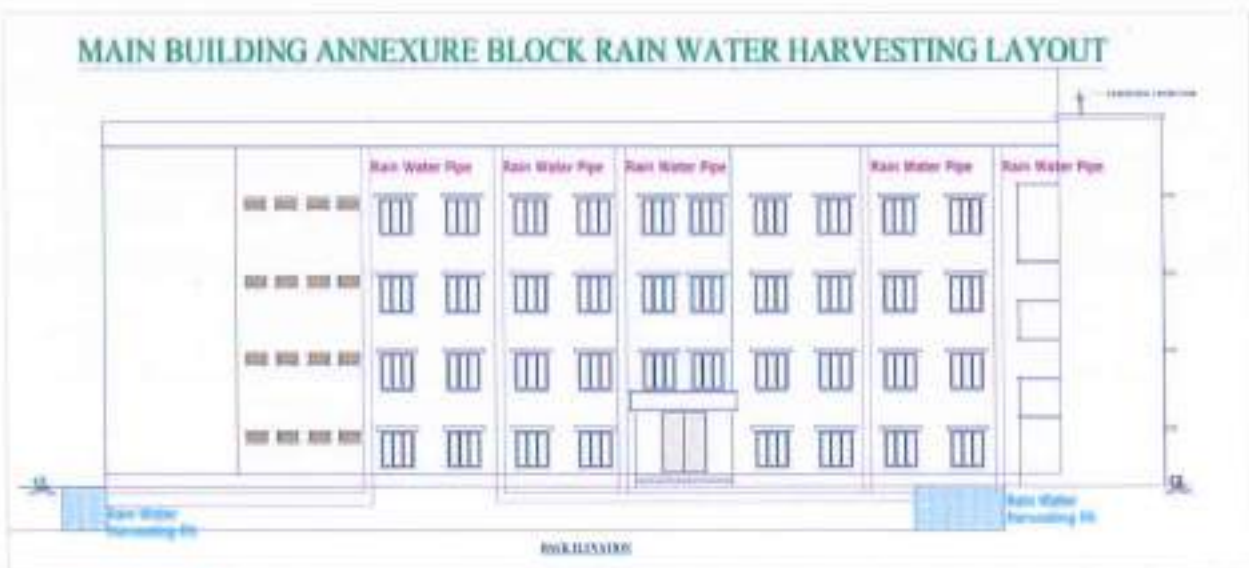



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## RAINWATER HARVESTING LAYOUT



  
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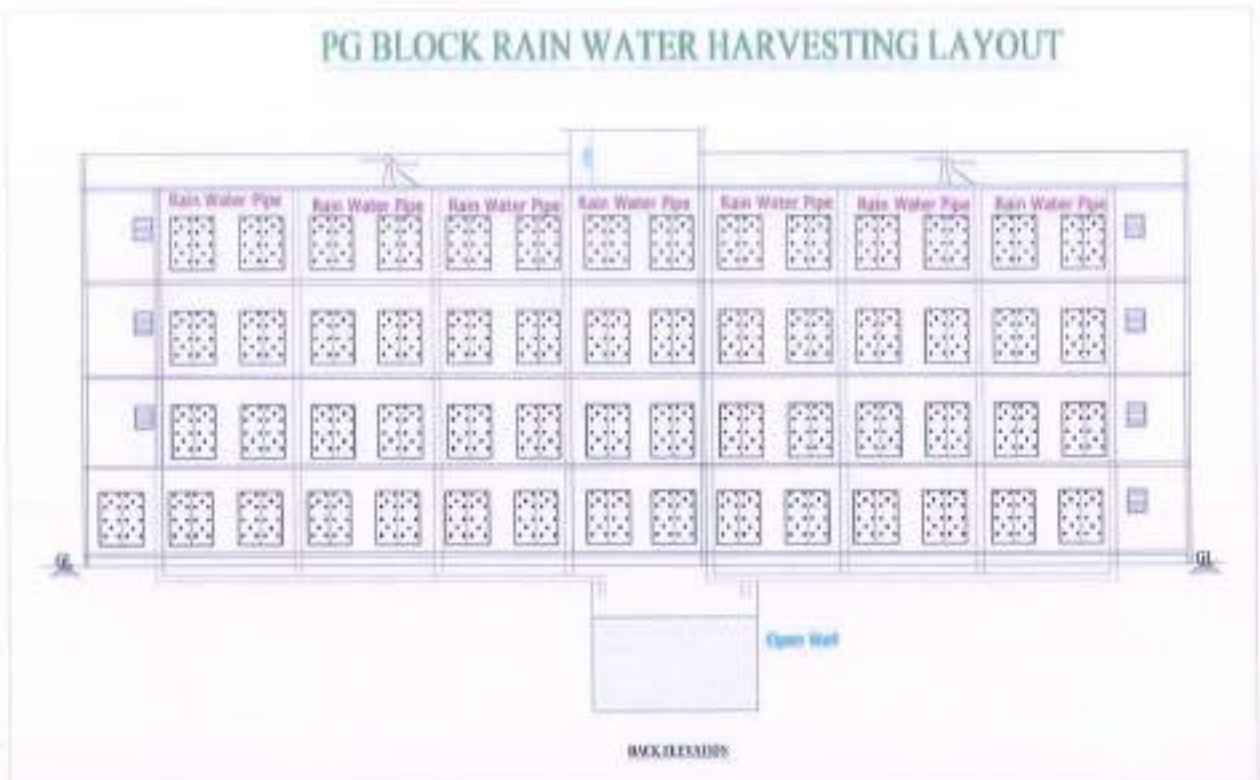


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## PG BLOCK RAIN WATER HARVESTING LAYOUT



## LIBRARY BLOCK RAIN WATER HARVESTING LAYOUT



*(Signature)*

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### 2. BOREWELL / OPEN WELL RECHARGE

The Institution has one Open well and six Bore Wells located at different locations with different depths as per the sub soil water position in the Campus. Bore wells are constructed inside the college premises for easy recharge. The stored rain water is effectively utilized to revive the bore wells. The Open Well receives water from the Rain Water Harvesting Plants with a well protected wall. The bore wells are properly maintained and kept in good condition in the campus. The openwell and borewell available in the college provide sufficient amount of water to support water necessities to cover all blocks of the college including hostel. The details of Borewell are listed below:

#### Borewell Depth

S.No	Location	Depth (in ft.)
1	Principal quarters	400
2	Physical Education Fitness Centre	851
3	STP Plant	1017
4	Boys hostel north side	690
5	Open Auditorium	700
6	Library block west side	1054



  
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Borewell near the Principal Quarters



Borewell near the Physical Education Fitness Centre



  
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Borewell at STP Plant



Borewell at Boys Hostel north side



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Borewell near at the Open Auditorium



Borewell at Library Block west side



  
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Openwell near at the BCA block



  
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### 3.CONSTRUCTION OF TANKS

As a part of Water conservation facilities that are available in the Institution, we built two numbers of ground tanks. We have a separate tank system for drinking as well as bore water for the convenient usage. Water from the bore well, open well and other water bodies are collected through the pipes and stored in the tank and distributed to the required areas. The tanks are cleaned regularly as per the Government norms. RO Water collected from Kongu Engineering College through transport is sent to the separate water tanks after which the drinking water is distributed throughout the campus at different water points. The details of overall collection tanks which are listed below:

S. No.	Location	Capacity (in liters)
1	Near Staff quarters vehicle parking	46710
2	Main Block	46710



  
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Overall Collection tank near the staff quarters vehicle parking



Overall Collection tank at main block



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### 4. WASTE WATER RECYCLING

The campus wastewater discharged from septic tank, hostels, canteen and washing area are recycled through Sewage Treatment Plant installed inside the campus with a capacity of 350KLD . The waste water after treatment is utilized effectively for gardening purpose. This drastically reduces the usage of fresh water.



GPS Map Camera  
Nanjanapuram, Tamil Nadu, India  
0M53+788, Kongu Arts and Science College,  
Nanjanapuram, Tamil Nadu 638107, India  
Lat 11.30022°  
Long 77.603088°  
17/02/23 11:35 AM GMT +05:30

Sewage treatment unit at Boys hostel back side



  
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Sewage treatment process at Boys hostel back side



Usage of recycled water for Gardening



  
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### 5. MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM

- The bore well water is pumped in to storage tank located at different places in the campus. The water is distributed through pipe network.
- Each building has a separate overhead tank that takes care of the water requirements of the institution
- Drinking water from RO plant are supplied through a separate set of distribution pipes.
- Water coolers are provided in college and hostel for safe drinking water.
- Press type of taps is fixed in the college canteen, bathroom to prevent the wastage of water.
- Wastage of water is reduced using low pressure flushes.
- STP plant helps in recycling liquid waste.
- Periodical monitoring of pipe line connection and plumbing works are done to avoid the leakage of water.
- All the stakeholders of the college are well educated to use water economically and efficiently

Table showing the location and capacity of water tanks within the campus

S. No.	Location	Ordinary Water (in Litres)		Mineral Water (in Litres)	
1	Main Block	38673			
		38673		1000	
		15853	93169	1000	2000
2	PG Block	33629	33629	2000	2000
3	Library Block	12938		1000	
		12938	25876	1000	2000
4	BCA Block	NIL	NIL	1000	1000
5	Science Block	25182	25182	1000	1000
6	Boys Hostel	16456		3000	
		17350	33806	1500	4500
7	Girls Hostel	30800			
		19062		2000	
		35192		2000	
		30800	115854		4000
8	Staff Quarters	10001			
		10001	20002	2000	2000
9	Guest House	21922	21922	1000	1000
10	Principal Quarters	5687	5687		
11	Under Ground Sump	46710	46710		
	<b>TOTAL</b>	4,21,837	4,21,837	19,500	19,500



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Overhead Ordinary Water Tank on the terrace of main block



Overhead Mineral Water Tank on the terrace of main block



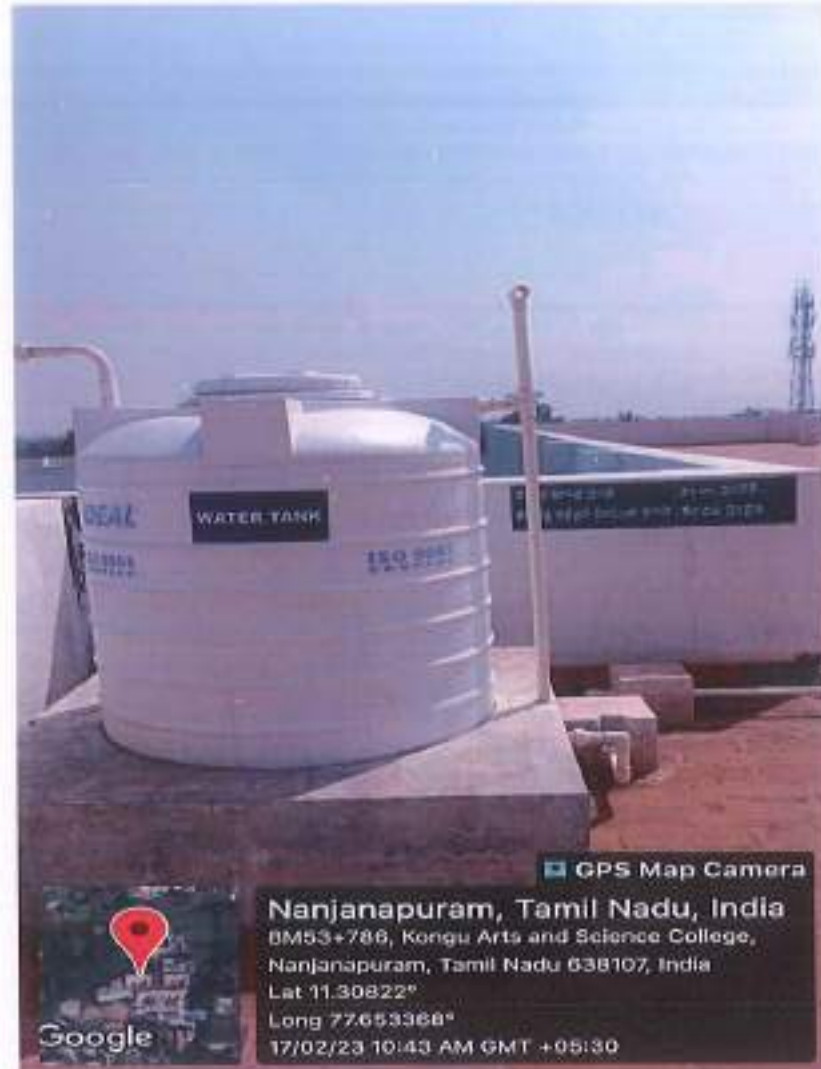
  
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Overhead Mineral Water Tank on the terrace of main block



  
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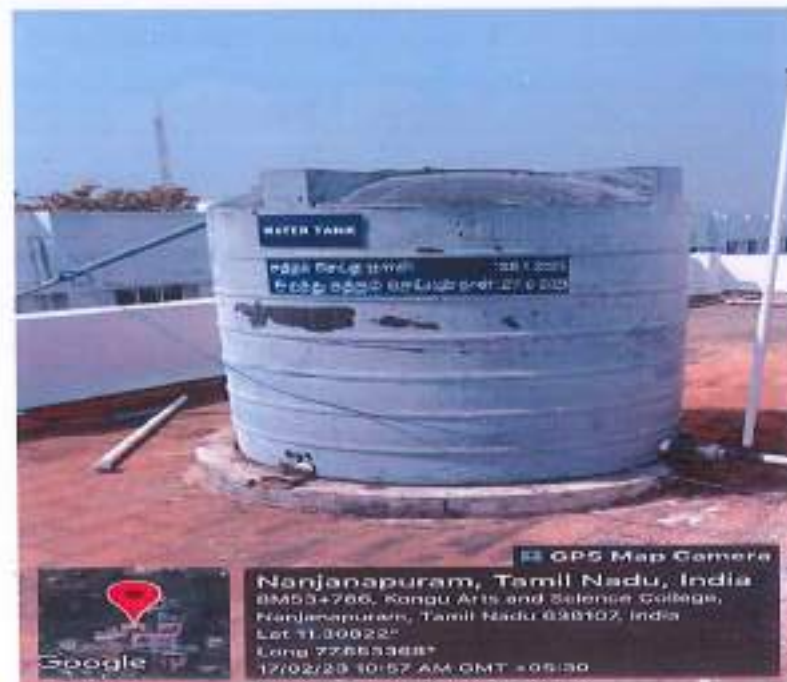
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Overhead Ordinary Water Tank on the terrace of PG block



Overhead Mineral Water Tank on the terrace of PG block



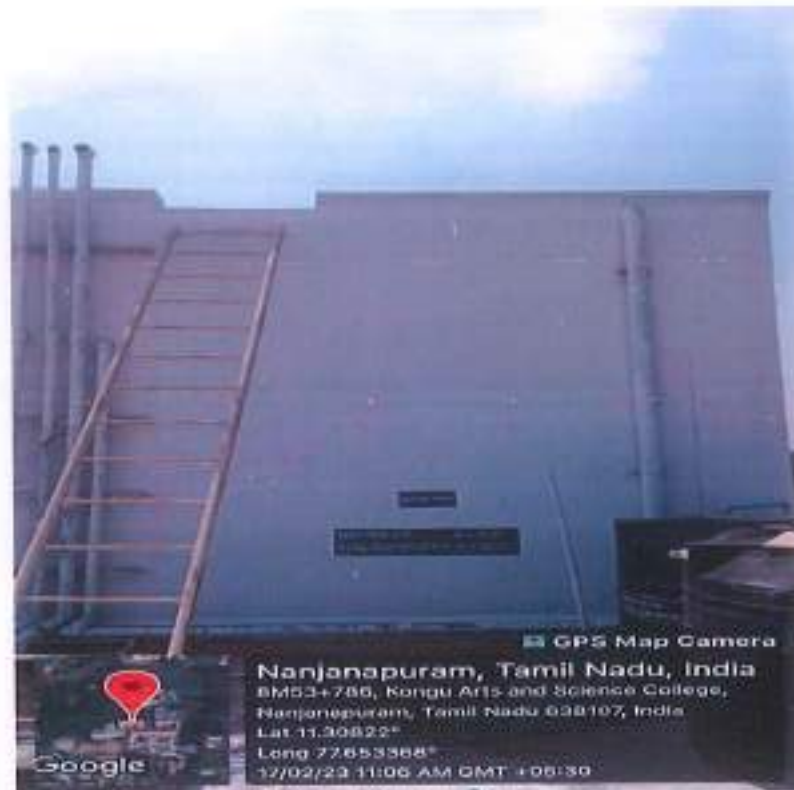
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Overhead Ordinary Water Tank on the terrace of library block



Overhead Mineral Water Tank on the terrace of library block



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Overhead Mineral Water Tank on the terrace of BCA block



Overhead Ordinary Water Tank on the terrace of science block



  
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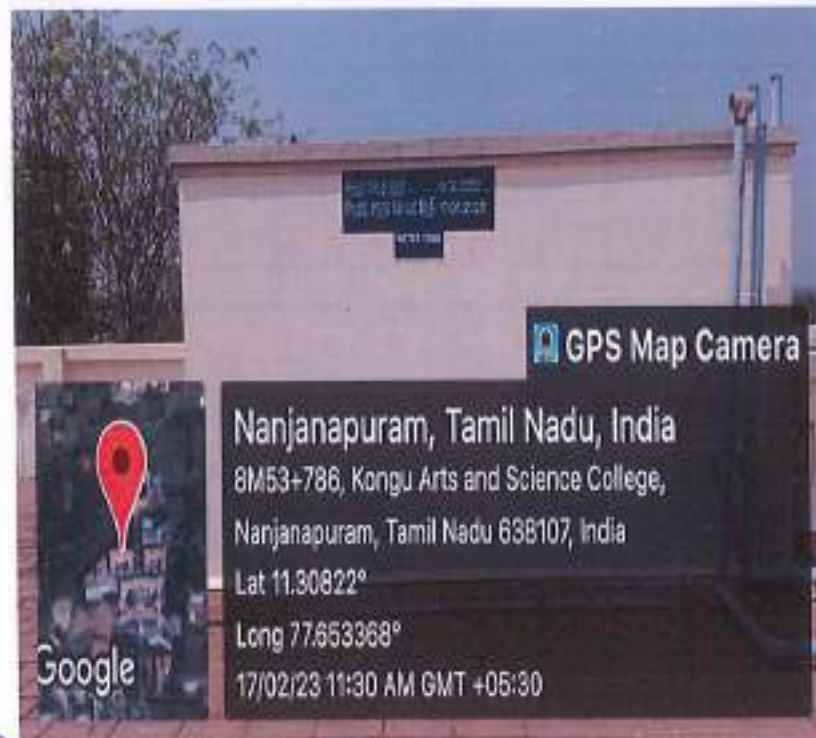
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Overhead Mineral Water Tank on the terrace of science block



Overhead Ordinary Water Tank on the terrace of boys hostel



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Overhead Mineral Water Tank on the terrace of boys hostel



Overhead Ordinary Water Tank on the terrace of Girls hostel



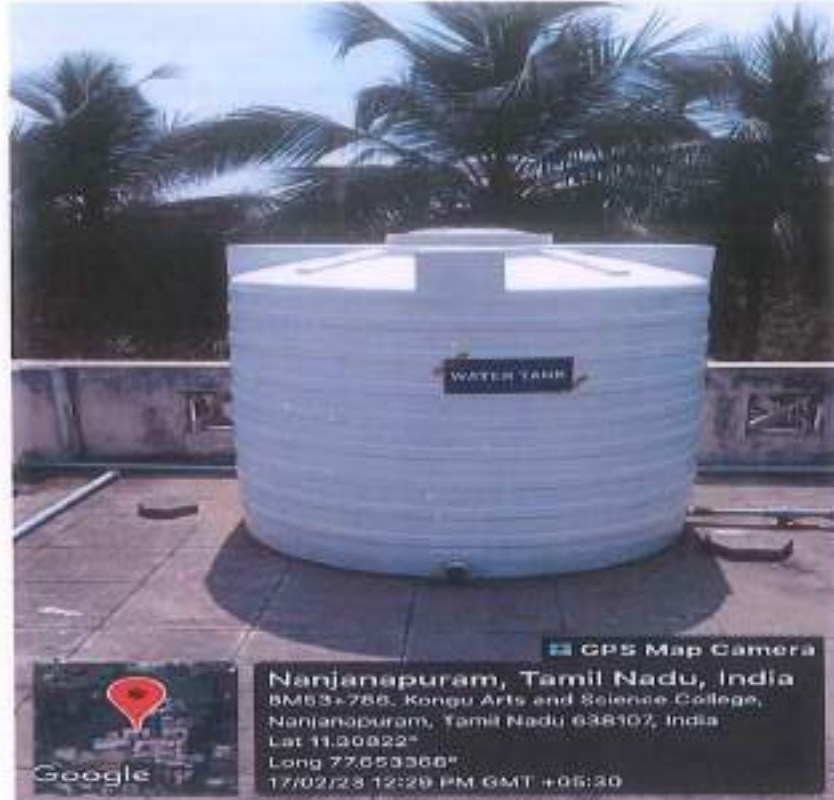
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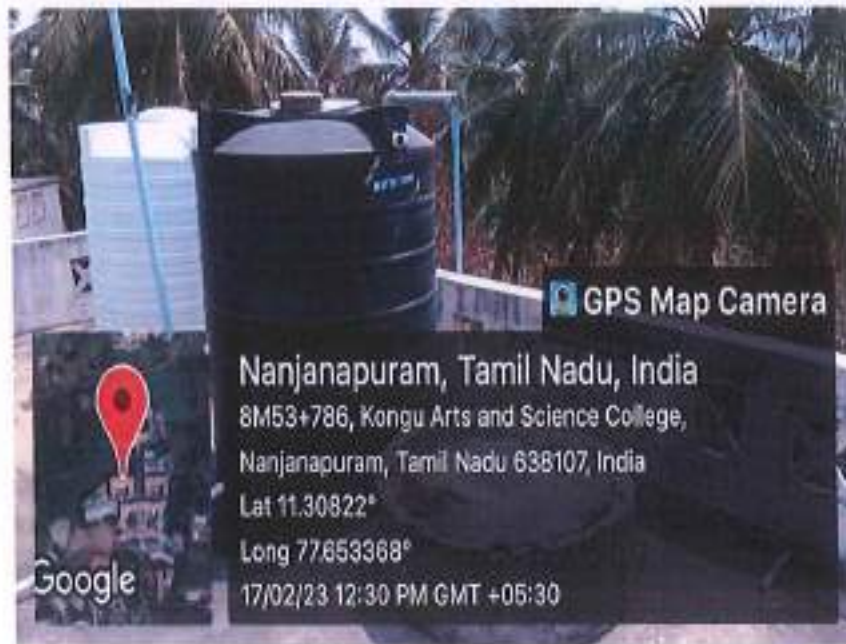
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Overhead Mineral Water Tank on the terrace of Girls hostel



Overhead Mineral Water Tank on the terrace of Girls hostel



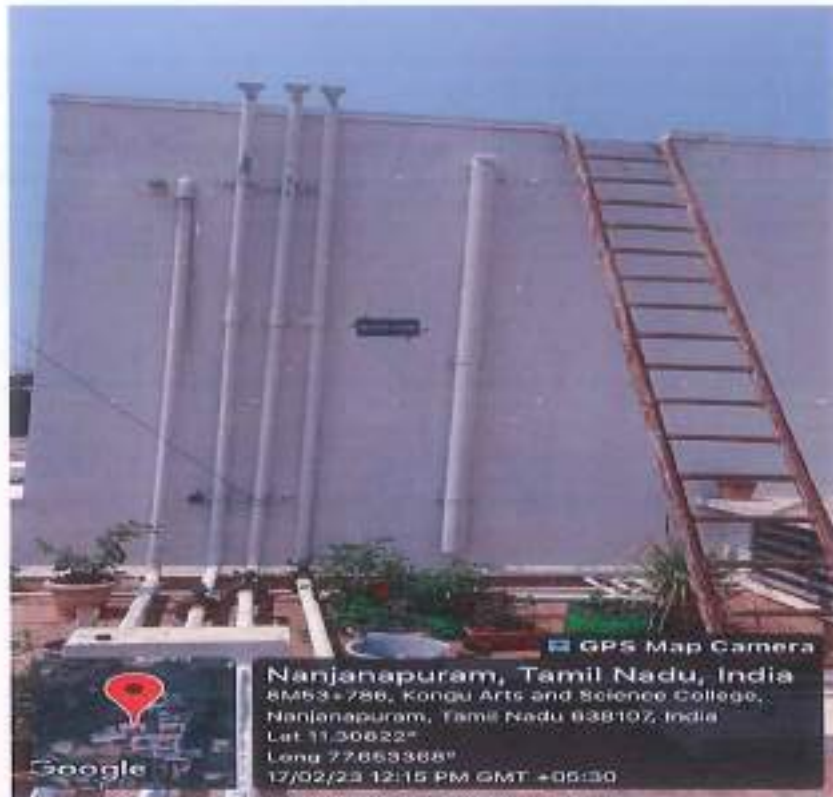
  
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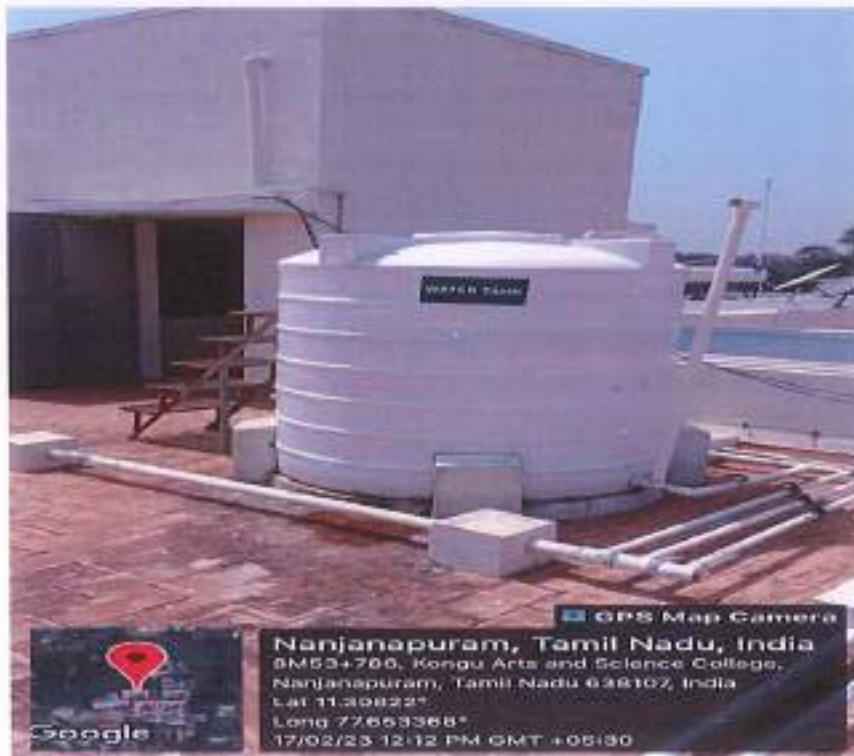
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Overhead Ordinary Water Tank on the terrace of staff quarters



Overhead Mineral Water Tank on the terrace of staff quarters



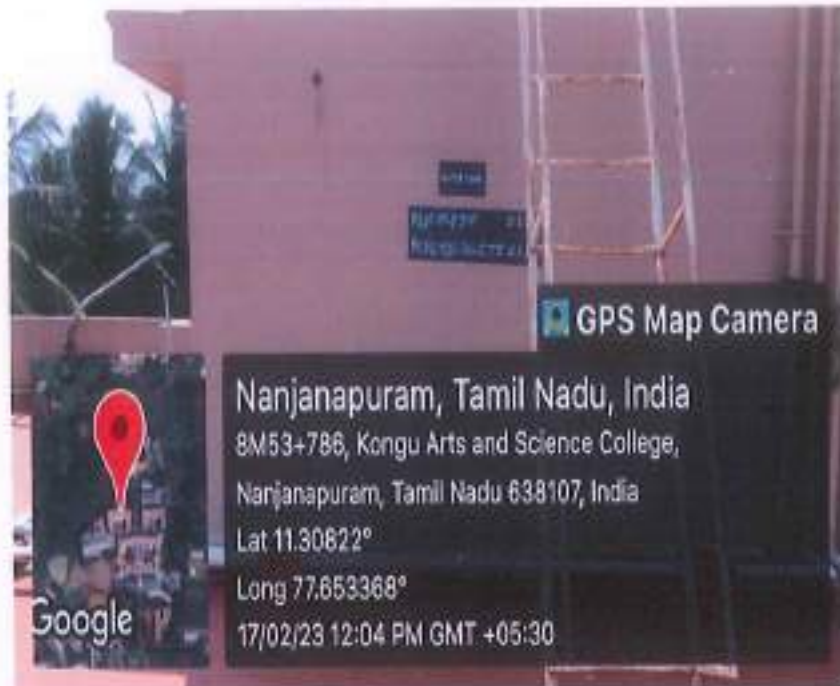
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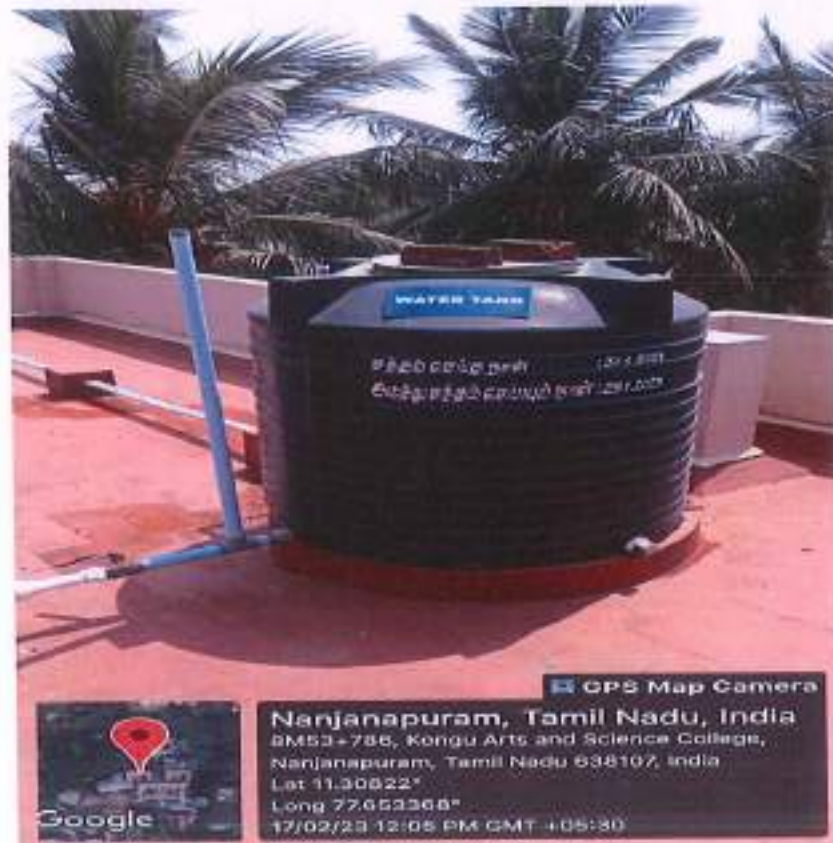
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Overhead Ordinary Water Tank on the terrace of guest house



Overhead Mineral Water Tank on the terrace of guest house



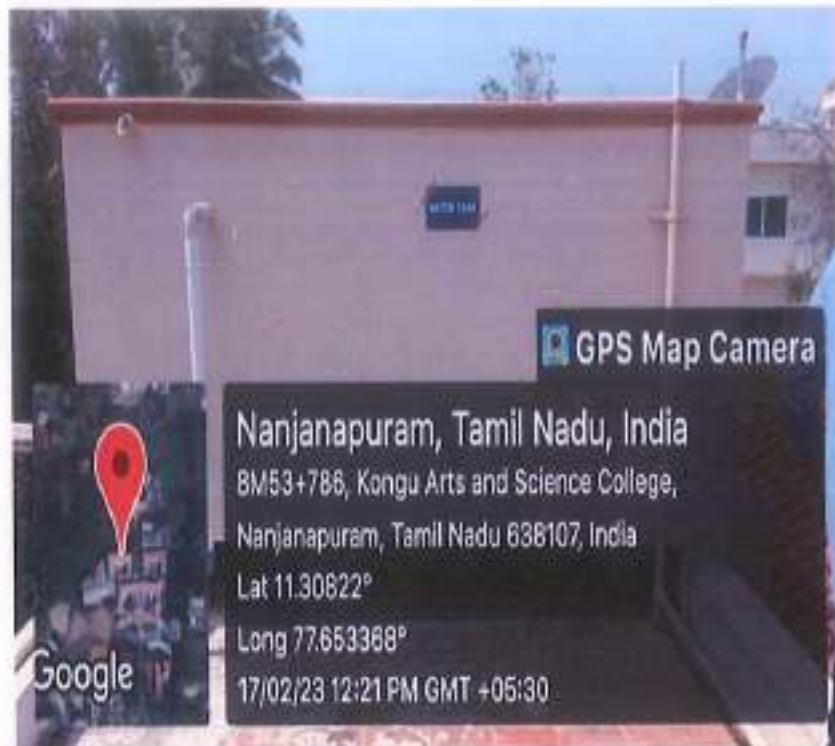
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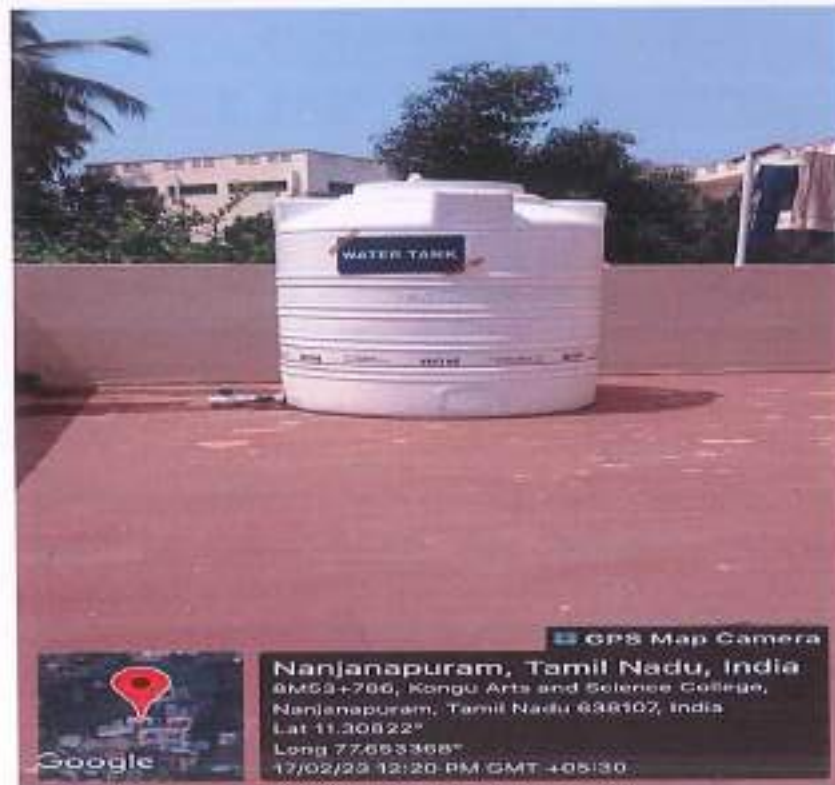
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Overhead Ordinary Water Tank on the terrace of principal quarters



Overhead Mineral Water Tank on the terrace of principal quarters



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RO Water Transport System



RO Water facilities



  
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