

7.1.4 Water conservation facilities available in the Institution:

VPS College of Engineering and Technology Lonavala is located in rural area, there is no Municipal Water supply for the college. The college depends on ground water for all its water needs. Hence, efficient usage of available water and adaptation of water conservation measures are essential. The daily requirement of water in the campus is around 6.5 M³/Day. The following measures are taken for the conservation of water:

1. **Rain water harvesting** : Run off generated in the campus is collected using a Check dam constructed in the campus on a natural drain passing through the campus. The stored water percolates into the ground to recharge ground water. The rain water coming from roof tops and that flowing within the campus are collected in five numbers of percolation pits of 3m x 3m size each, constructed at all feasible points in the campus recharge ground water.

2. **Open well recharge**: An open well located in the campus is recharged by rain water. The well also receives water from the percolation pits.

3. **Maintenance of water distribution systems in the campus**: The ground water is pumped into storage tanks located at different places in the campus. There are nine numbers of overhead storage tanks and one Elevated Service Reservoir in the campus. The water is distributed through well laid pipe network. Drinking water after treating in RO plant is supplied through a separate set of distribution pipes and water for all other purpose is supplied through another set of distribution pipes. Entire distribution system is well supervised by the maintenance department to ensure that there are no leakages and wastages of precious water through joints, valves etc. Waste usage of water is reduced using low pressure flushes. All the stakeholders of the college are well educated to use water economically and efficiently.

1. Rain water harvesting

St.Francis Block

The capacity of the tank is 5000 litres and the motor capacity is 5Hp Submersible motor. The number of square pits is 7 and round pits is 12. The rain water utilized by the total area of land is 30 cent during summer season.




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2. Bore well /Open well recharge

Sacred Heart Block

The open well capacity is 850 ft. The motor capacity is 5Hp Submersible motor.

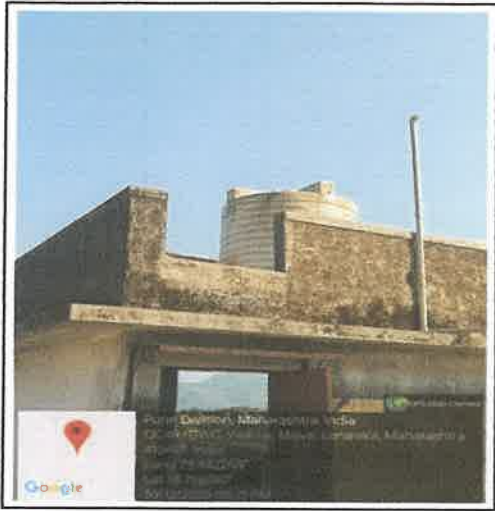


Sacred Heart Block

- Total no of tanks :4
- Tank 1 Capacity – 10000 litres
- Tank 2 Capacity – 2000 litres
- Motor Capacity – 5Hp Submersible motor




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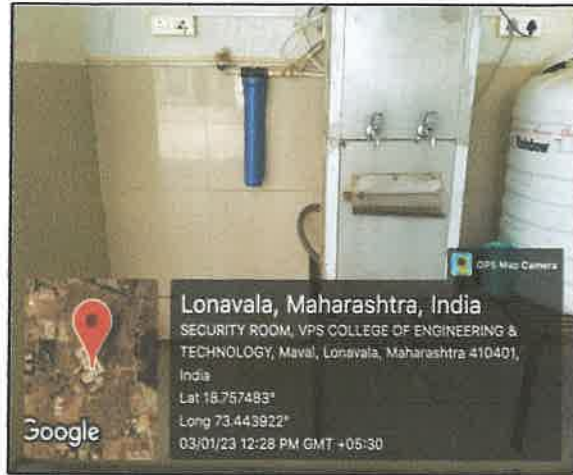
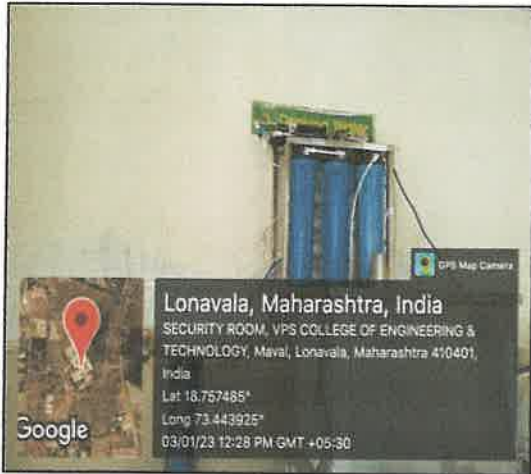


● **Rain water harvesting at boys hostel**




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● **Waste water recycling**



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