

7.1.4 Water conservation facilities available in the Institution:

Our college adopts the initiatives of AICTE through 'Jal Sakti Abhiyan' by implementing the following steps.

1. Rain Water Harvesting(RWH):

Rain water inside college premises is collected in water harvesting pond and sumps.

- **Storage Capacity of Sumps**

Rainwater storage facilities with 2,34,000 litres capacity in sumps are available in Boys Hostel, Girls Hostel, Stores and site office and Indoor stadium.

- **Storage Capacity of Rain water Harvesting Ponds**

Open wells for rain water harvesting is available with a overall capacity of 6,28,382 litres near Power house, Boys mess, Boys hostel and Girls hostel.

2. Waste Water Management:

Two sewage treatment plants with capacity of each 65,000 litres per day (totally 1,30,000litres/day), treat sewage water collected from bathrooms and kitchen campus, passed through grid, bar screen and degreasing chamber and through bio-reactor (aeration tank), where sewage is digested by aerobic bacteria. The treated water is collected in a collecting tank, pumped through sand and actuated carbon filter. The filtered water is collected in a sump from where water is pumped to the entire college gardens through overhead tank.

3. Bore wells:

31 numbers of bore wells function inside campus to support water requirements.

7.1.4 Water conservation facilities available in the Institution:

- **Storage Capacity of Sumps**

Table 7.1.4.1 – Storage of Rainwater in Sumps

S.No	Location of sump	Capacity in Litres
1	Boys Hostel	63000
2	Girls Hostel	90000
3	Stores and site office	36000
4	Indoor stadium	45000
Total capacity		2,34,000 litres



Fig. 7.1.4.1- Rainwater sumps at Site Office



Fig. 7.1.4.2- Rainwater sumps near stores

• **Storage Capacity of Rain water Harvesting Ponds**

Table 7.1.4.2 – Storage of Rainwater in Ponds

S.No	Location of Ponds	Specifications		Capacity in Litres
		Diameter in Feet	Depth in feet	
1	Power house	45'	9'	4,05,384
2	Boys mess	12'	7'9"	24,823
3	Boys hostel	16'	7'9"	44,130
4	Girls hostel	27'	9'6"	1,54,045
Total capacity				6,28,382 litres



Fig7.1.4.3- Open well near power house



Fig. 7.1.4.4- Rain water pond harvesting sump at girls hostel



Fig. 7.1.4.5 – Layout of Waste water treatment process (STP) in College



Fig. 7.1.4.6 – STP – Sewage collection tank

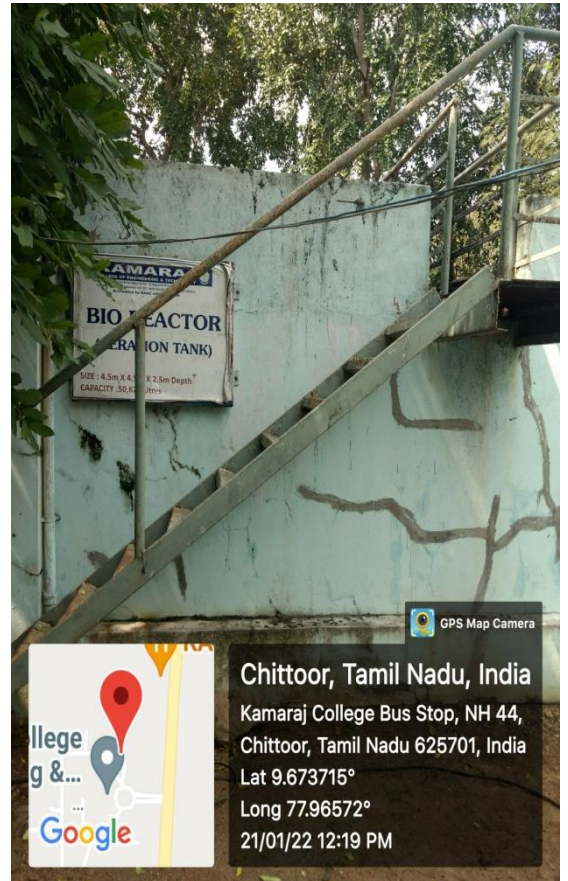


Fig. 7.1.4.7 – STP – Aeration tank



Fig. 7.1.4.8 – STP – Treated water collection tank



Fig. 7.1.4.9 – STP – Activated Carbon and Sand filters



Fig. 7.1.4.10 – STP – Sludge Settling Tank



Fig. 7.1.4.11- Overhead water tank distributing recycled water to gardens



Fig. 7.1.4.12- Drinking water distribution pipe line behind E-block

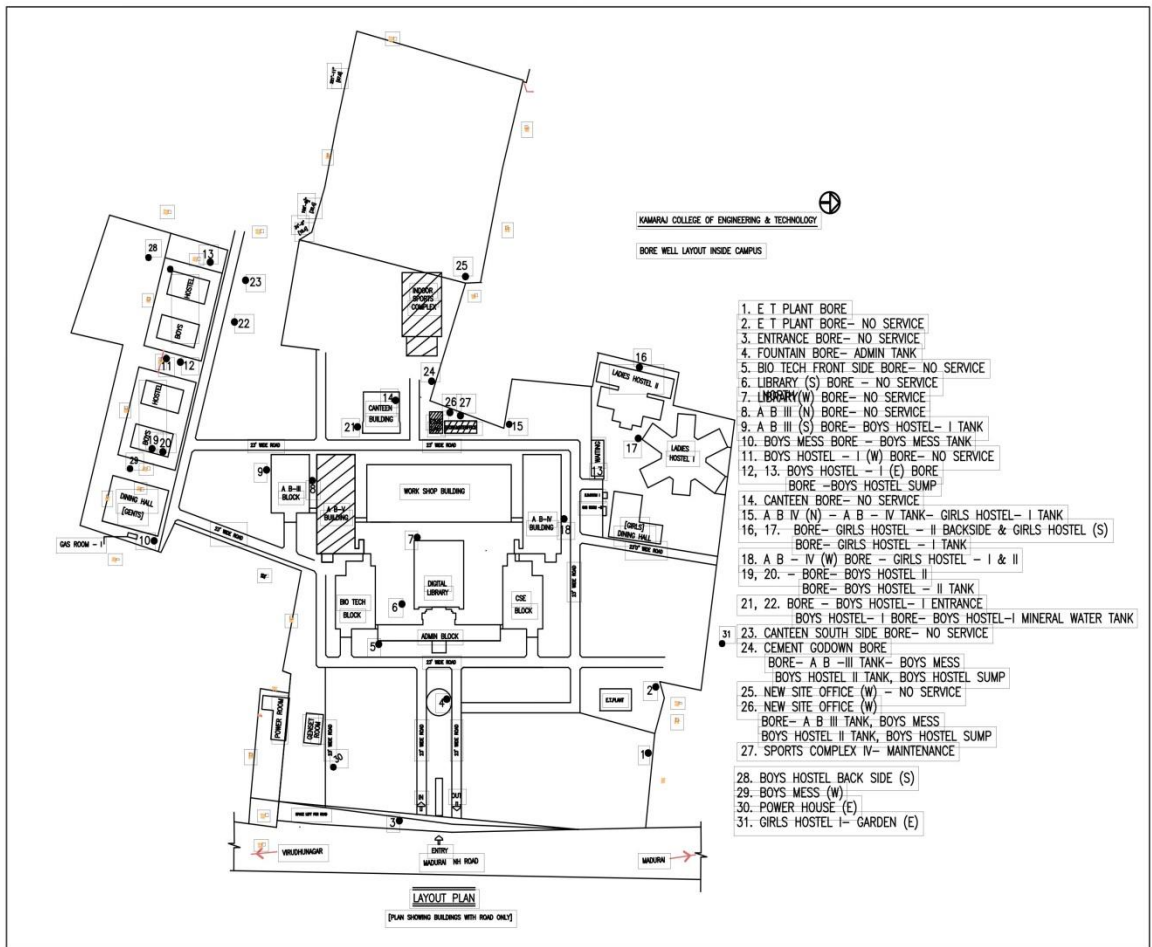


Fig. 7.1.4.13- Borewell layout inside campus.