

Rain water harvesting

ATME College of Engineering in order to achieve sustainability has implemented the rain water harvesting system in the campus. The system adopted is roof top rain water harvesting. The details of the potential volume of harvesting are as given below table. The campus is equipped with underground sump of capacity approximately 92,000 litres, to store the harvested rain water.

Table: The details of roof top area and the harvesting potential

| Sl. No. | Block | Roof Top Area (m ²) | Average Rainfall per annum in mm | volume of water collected (m ³) |
|---------|------------|------------------------------------|--|--|
| 1 | Civil | 1664.02 | 770 | 1281 |
| 2 | Electrical | 1306.3 | | 1006 |
| 3 | Mechanical | 2264.82 | | 1744 |
| Total | | | | 4031 |



Preliminary RoofTop Rain Water Harvesting Area

The surplus rain water which is in the form of surface run off is redirected to the recharge wells located at various locations. The below is picture of couple of recharge pit.

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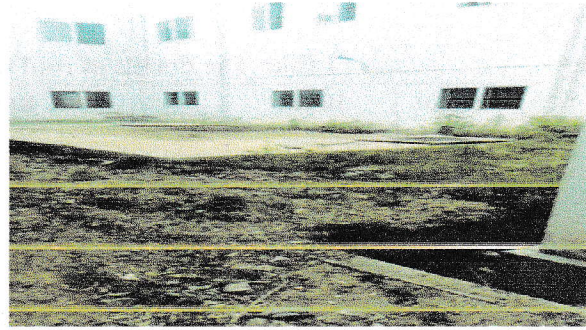
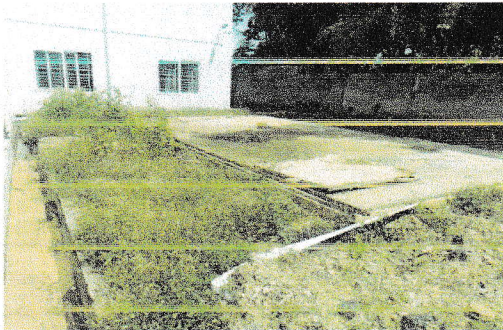
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College of Engineering



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Rain Water Storage Units

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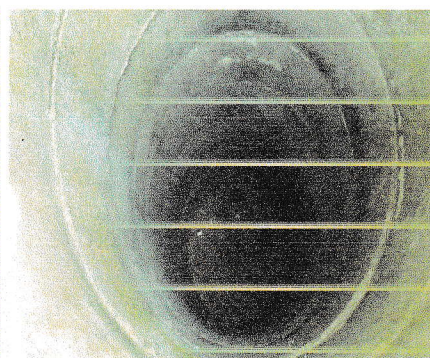
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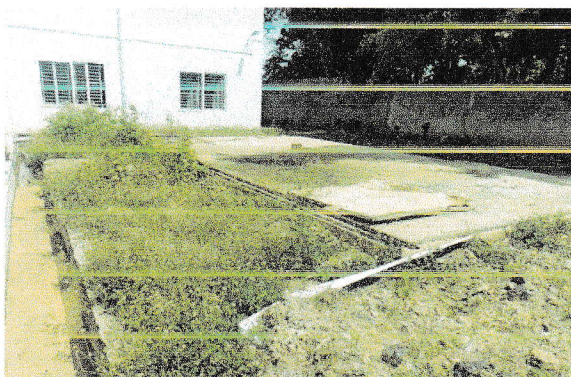
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Borewell /Open well Recharging system.


It is a well-known problem that the underground water table is depleting. In order to increase the water table, we need to recharge our Borewells. ATMECE has shown its' responsibility in this matter and have taken up measures to recharge the borewell and increase the underground water level. During rainy season the rain water is not let to flow out of the campus but is harvested and stored in the recharge wells and let it percolate slowly in to the ground. Following are the photographs of the recharge wells and storage units



Recharge Wells



Rain Water Storage Units


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7.1.4.3 Construction of tanks and bunds

ATMECE green policy mandates the institution to make optimum use all water sources and minimize wastages. In this regard a huge Tank is constructed at ground level to store rainwater from the roof tops and the same is filtered and used for cleaning and gardening purpose. This way the overflow of rainwater out of the campus is minimized and at the same time the water that is drawn from the borewell is minimized. A tank of size of the tank is.....



Waste water treatment Facility

ATMECE with the intention of water conservation and prevention of water wastage has installed a Sewage water treatment plant in the campus. The facility installed is helping the college in its commitment to environment sustainability. The used water in the college campus from the Boys and Girls restrooms, common rooms, Staff rooms, and cafeteria is fed to the STP and treated water is used for mainly watering the vast green campus. The details of the Sewage water treatment is given below.

- Sewage water Treatment Plant (STP) of capacity 16686 litres.
- Raw Sewage Screening, Oil / Grit Removal, Equalization Tank, Fluidized Bio Reactor, Tube Settler, Pre-filtration tank, ACF, PCF, Final Treated holding tank.
- The treated waste water is proposed to be recycled for toilet flushing's and gardening purpose.



Sewage water Treatment plant located in ATME campus



Reuse of Water for Gardening and Green Cover Development

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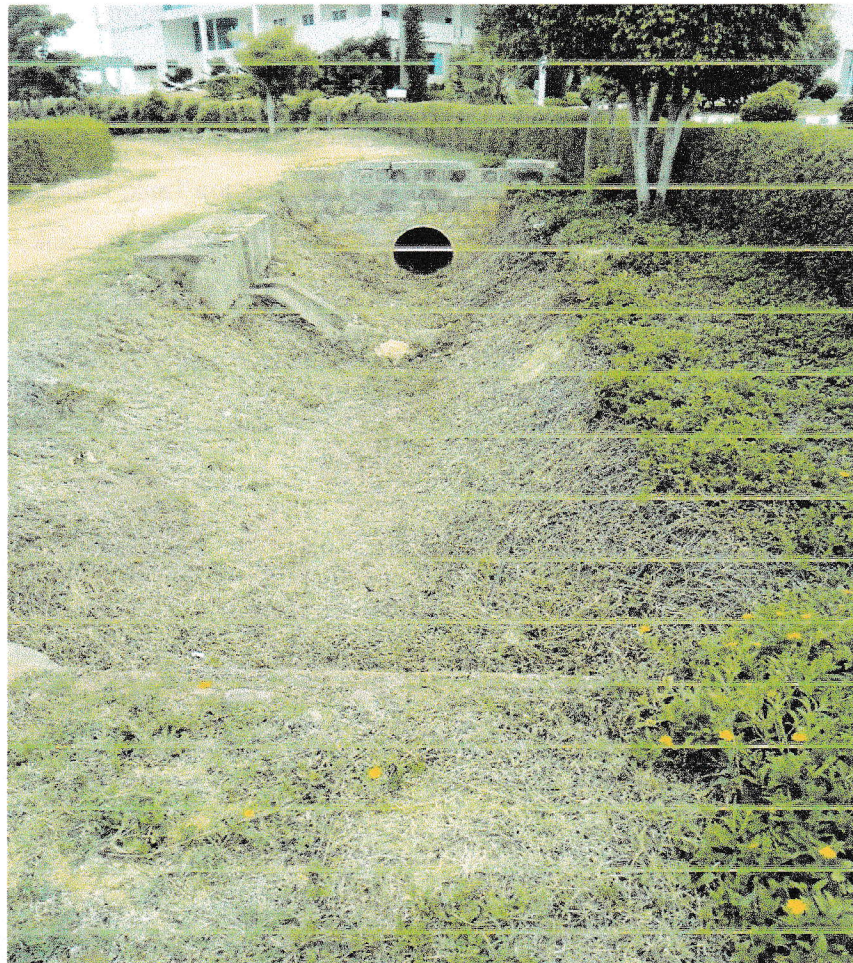
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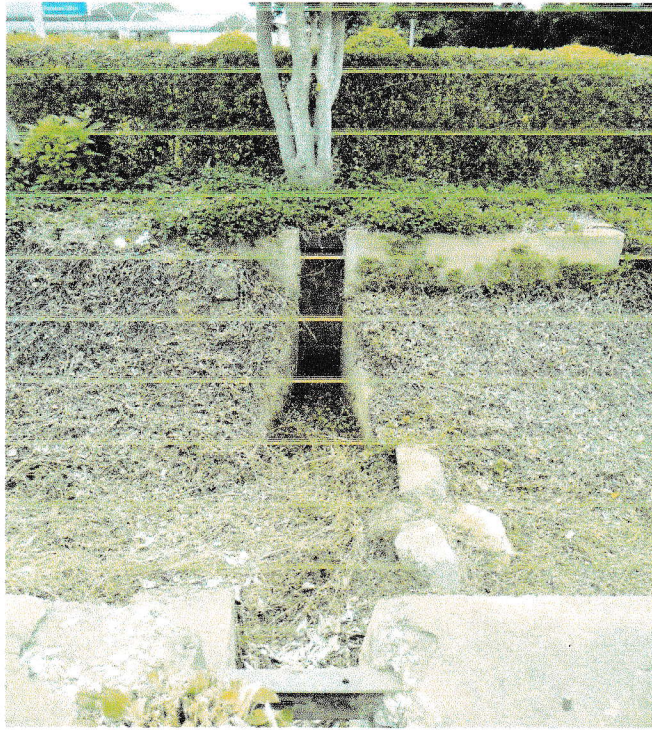
7.1.4.5 Maintenance of water bodies and distribution system in the campus

ATMECE preserves the water bodies which is coming under the campus area. There is a pre-existing natural canal running through the campus to which the water from the admin block and surrounding area are directed. The water flowing in that canal is further directed to recharge pit. Institute maintains the canal in its natural way and uses the water flowing in the canal to recharge the borewell.




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