



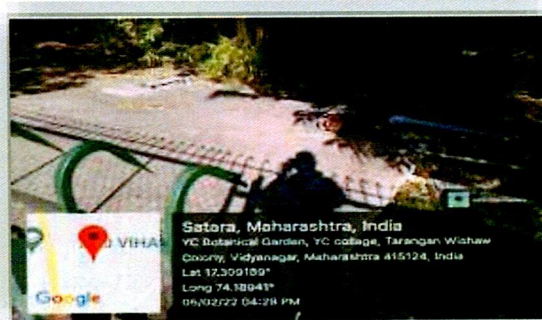
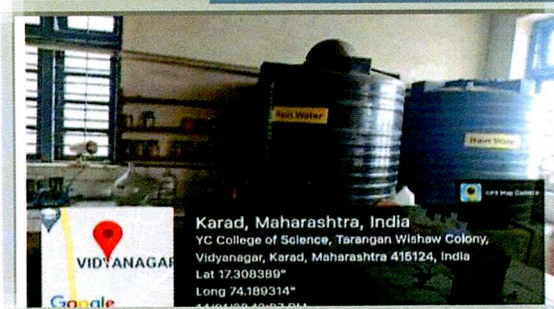
Shri Shivaji Education Society's, Vidyanagar, Karad's
Board for Higher Education, Vidyanagar, Karad's
Yashwantrao Chavan College of Science, Karad,
Dist. Satara (MH), India-415 124



Criterion VII

Institutional Values and Best Practices

Water Conservation Facilities





Institutional Initiatives for Water Conservation

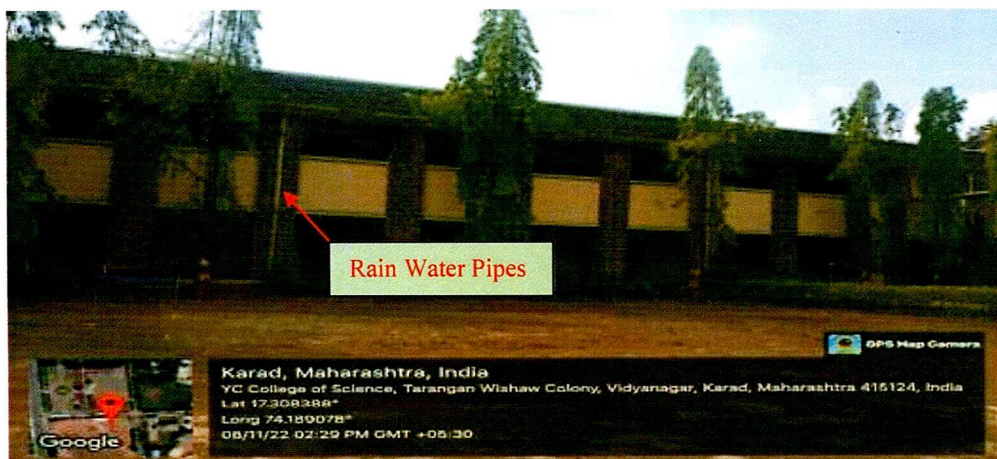
For the water conservation an institute has taken following initiatives,

- Rain water harvesting
- Bore well/open well recharge
- Construction of storage tank
- Waste water recycling
- Maintenance of water bodies and distribution system in campus
- Water level controller

1) Rain Water Harvesting:

The entire campus to the east is walled in to prevent rainwater from flowing from west to east due to the natural slope, even if no 'Check dams' in the traditional sense have been built on the campus. By allowing the blocked water to seep underground, the groundwater table is refilled. Additionally, the open areas in front of the laboratories have been walled in, and the rainwater gathered there is channelized to an open well adjacent at the botanical garden (on the eastern side of the building), from where it is used to irrigate the campus's grounds through drainage pipes.

Rain Water Harvesting



Date: 08/11/2022



Date: 08/11/2022



Date: 08/11/2022

Rain water Harvesting at Department:

In the Department of Chemistry, water harvesting is done directly using water from the roof top overall collection about 2000 L during each season. This substantially satisfies the requirement for distilled water required for numerous Chemistry studies.

Rain Water Harvesting at Department

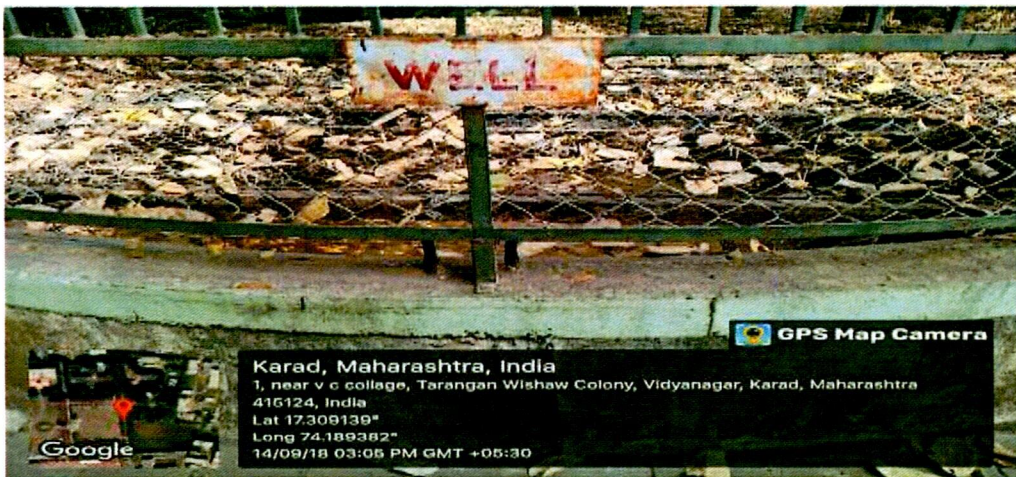


Date: 11/04/2022

2) Bore well/open well recharge

Bore well or open well recharge involves channeling surface water into wells. This method, typically built near the well, helps preserve groundwater supplies. In our institute, the open well is situated near the botanical garden. This open well is automatically recharged during the rainy season due to the rainwater harvested on the institute premises. A special pipeline from the Krishna River recharges well after the rainy season. The open-well water is used for the institute premises with the help of a tank constructed near the botanical garden.

Bore Well/Open Well Recharge



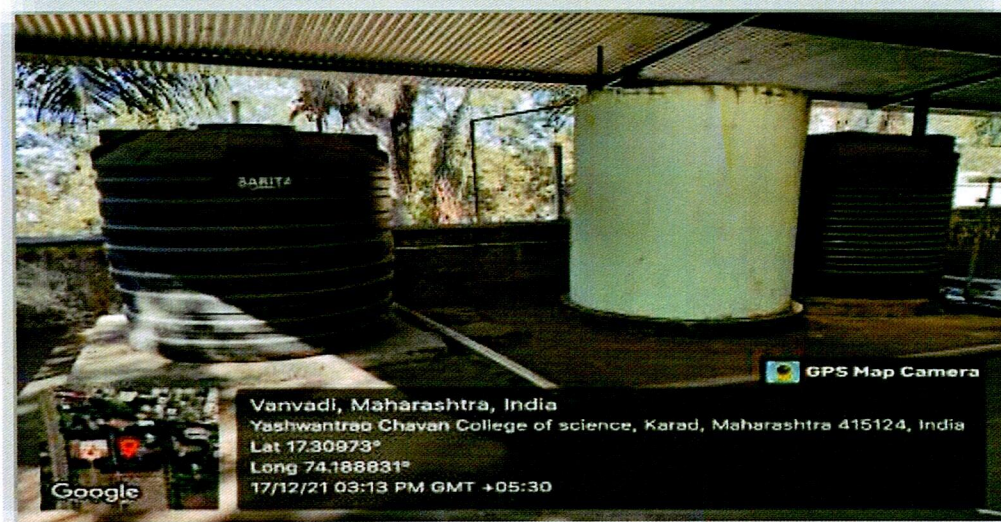
Date: 14/09/2018

On the institute campus, at various places, the bore well is used for water recharge.

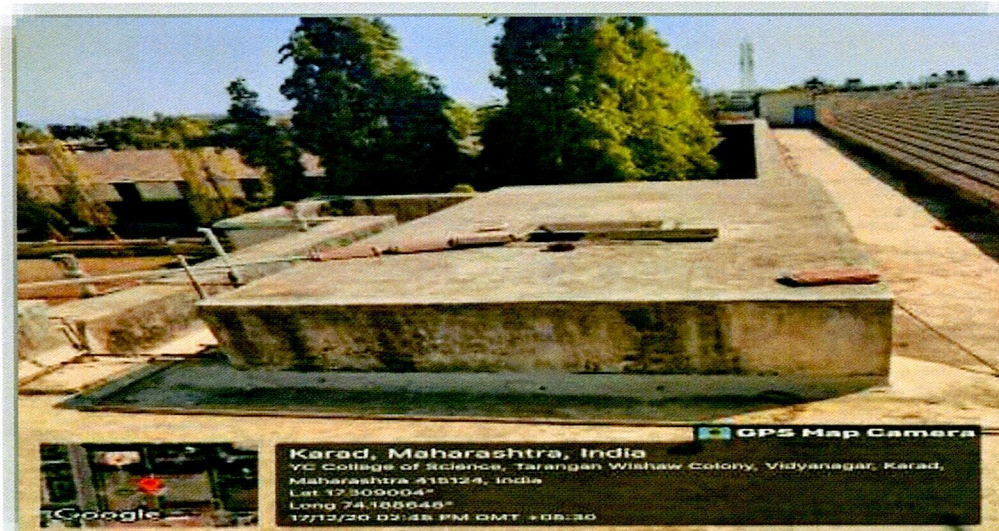
3) Construction of storage tank and bunds

On the premises of the institute, two cement water storage tanks are constructed: one near the botanical garden and the other at the top of the main building. In the NSS camps peoples of the villages to encourage to construct bunds

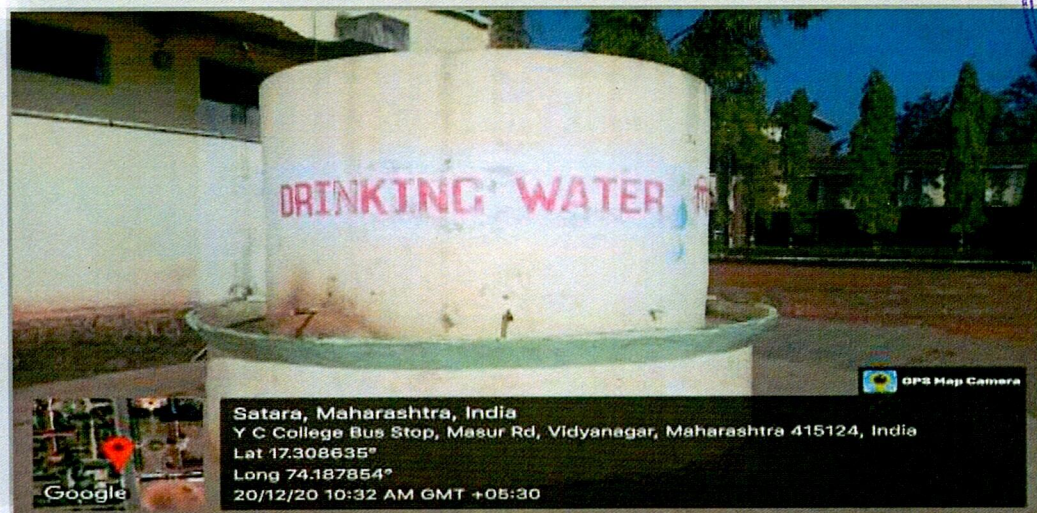
Construction of storage tank and bunds



Date: 17/12/2021



Date: 17/12/2020



Date: 20/12/2020

Vanrai Bhandhara Construction at Banawadi



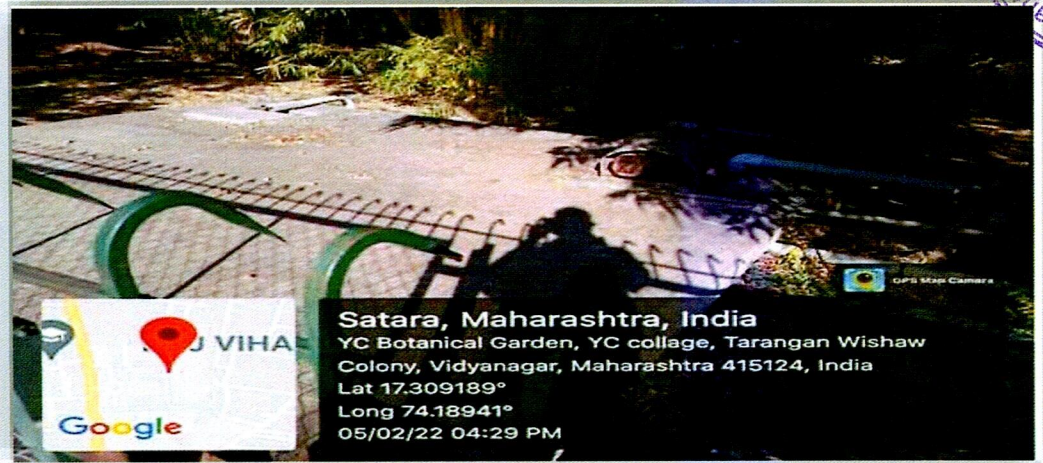
Date: 20/01/2020



Date: 20/01/2020



Ground Water Tank



Date: 05/02/2022

Drinking Water



Date: 20/12/2020



Date: 20/02/2024



Date: 20/12/2020



Date: 20/02/2024



Date: 20/02/2024



4) Waste Water Recycling

The waste water of the institute is collected in a bund constructed in the botanical garden, and the same is used for watering the plants and sugarcane farm. All the waste water is utilized on the institute campus itself. Hence, our institute has no need to install any costly water recycling units.

Waste Water Collection Bund



Date: 24/10/2020

5) Water Distribution Maintenance System

In our institute, two methods are used for water distribution maintenance:

- i) Preventive maintenance
- ii) Corrective maintenance

The institute allotted all the water maintenance-related works (plumbing works) to Shri. Arjun Chavan.



i) Preventive Maintenance

In preventive maintenance, a precaution is taken to prevent water distribution system malfunctions like leakage. In this case, the mechanical parts of the system are checked by the plumber periodically. If problems are observed during preventive maintenance, corrective action should be taken immediately. The complete college campus water distribution system subgroups and allotted days for preventive action are given below

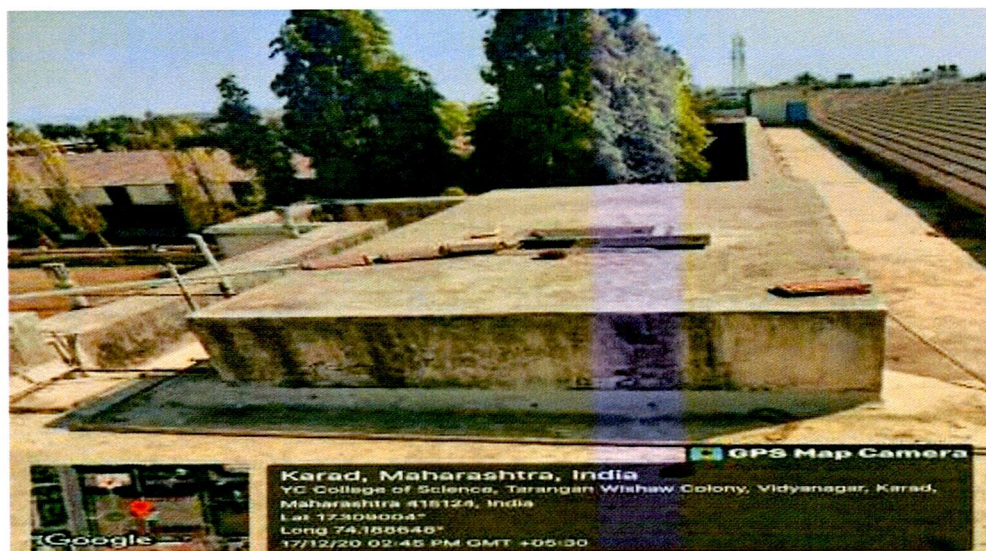
- Main Building and Computer Department: 1st Monday of every month
- Boys hostel: 2nd Monday of every month
- Woman's Hostel: 3rd Monday of every month
- Botanical Garden and all remaining college campuses: 4th Monday of every month

If the national holiday occurs during preventive maintenance plan day, then the next day is used for the same.

ii) Corrective maintenance

In our institute, every student and employee are involved in the water distribution preventive work. If any malfunction, like tap leakage, pipe breakage, etc., occurs, then he or she informs Shri. Arjun Chavan by mobile phone or personally. According to the fault, the necessary action should be taken. Due to the proper execution of the preventive maintenance plan, in our institute, fewer major problems related to the water distribution system occur.

Water Distribution Maintenance System



Date: 17/12/2020

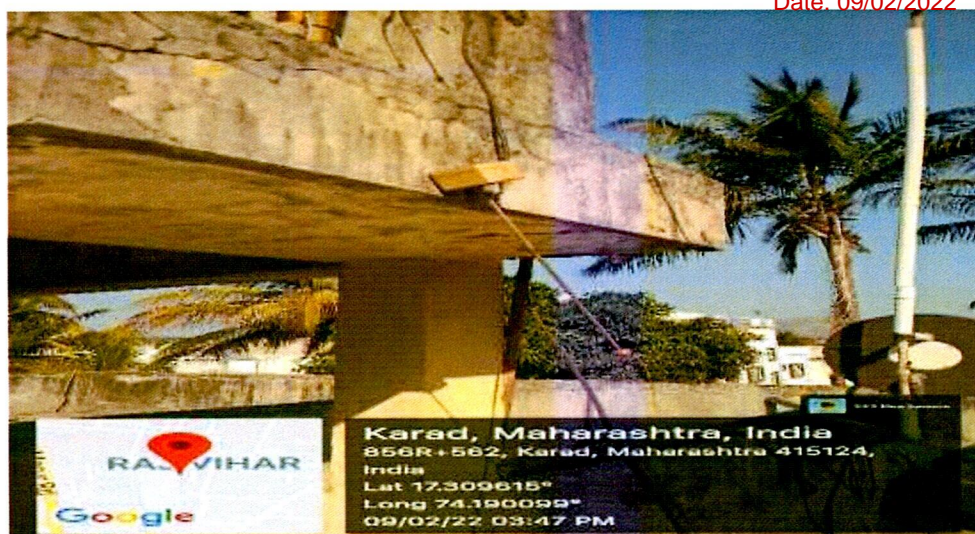
6) Float Sensor Based water level controller

These devices are strategically placed within the campus's water tanks. The water float sensor is one of the system's essential parts of the water level controller. While the float sensors provide real-time information on the water levels within the tanks, the water level controller continuously monitors them. This automatically manages the supply of water, eliminating overflow and waste and enabling effective management of water resources. It lowers power usage in addition to water-saving measures.

Water Level Controller

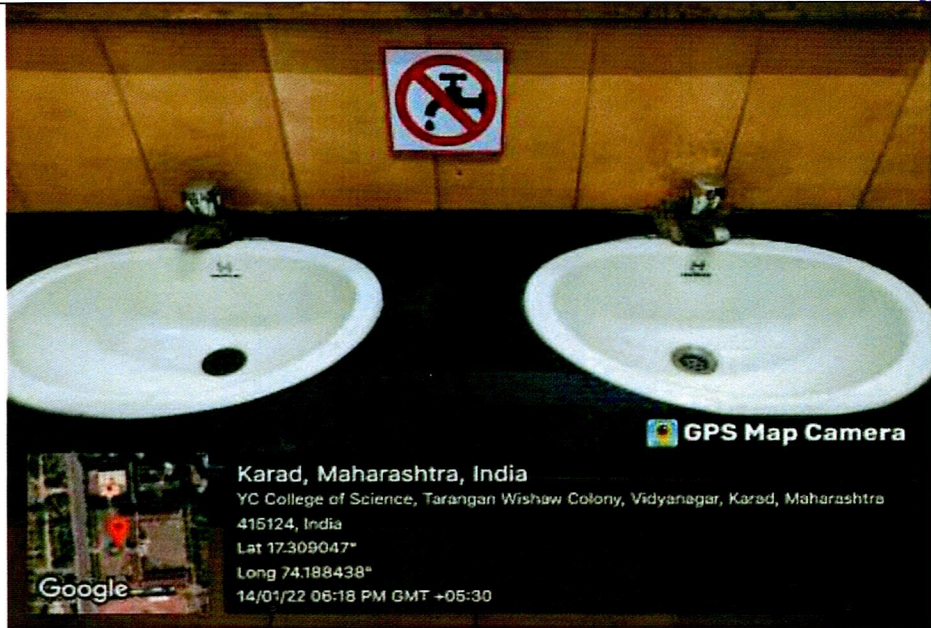


Date: 09/02/2022

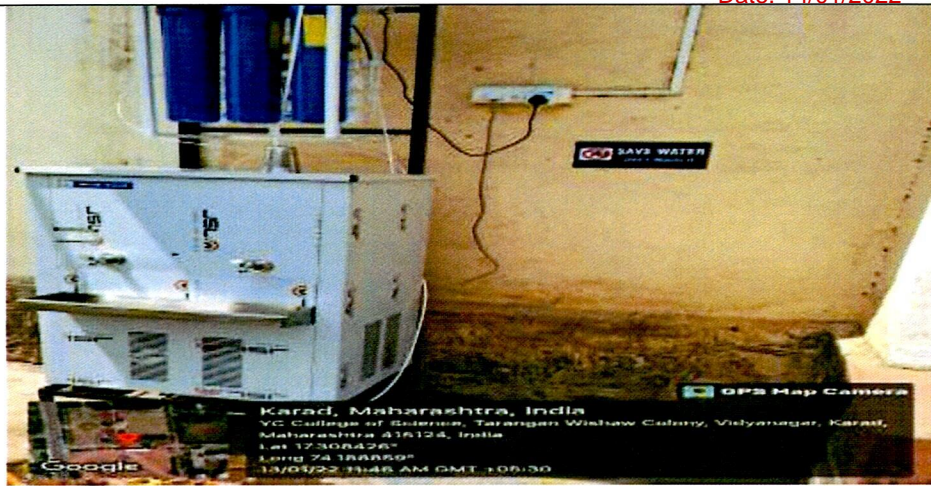


Date: 09/02/2022

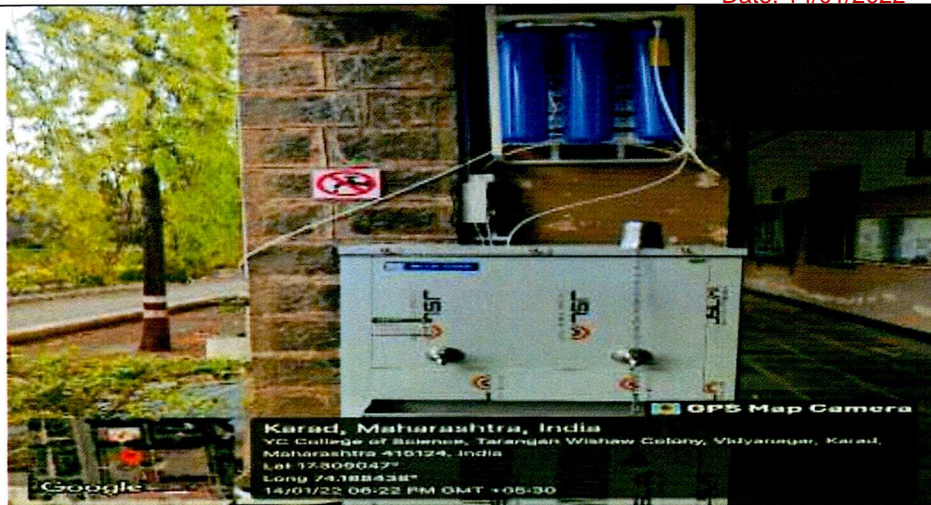
Water Conservation Signboards



Date: 14/01/2022



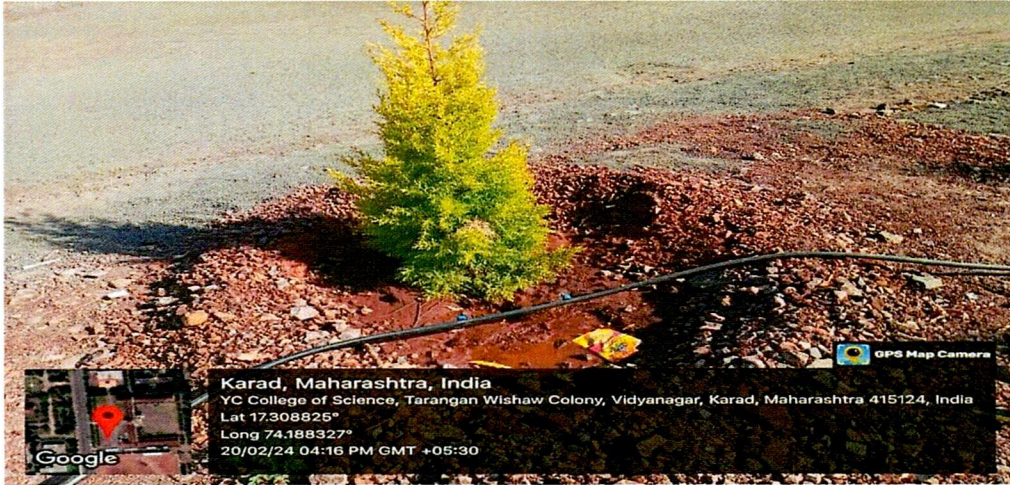
Date: 14/01/2022



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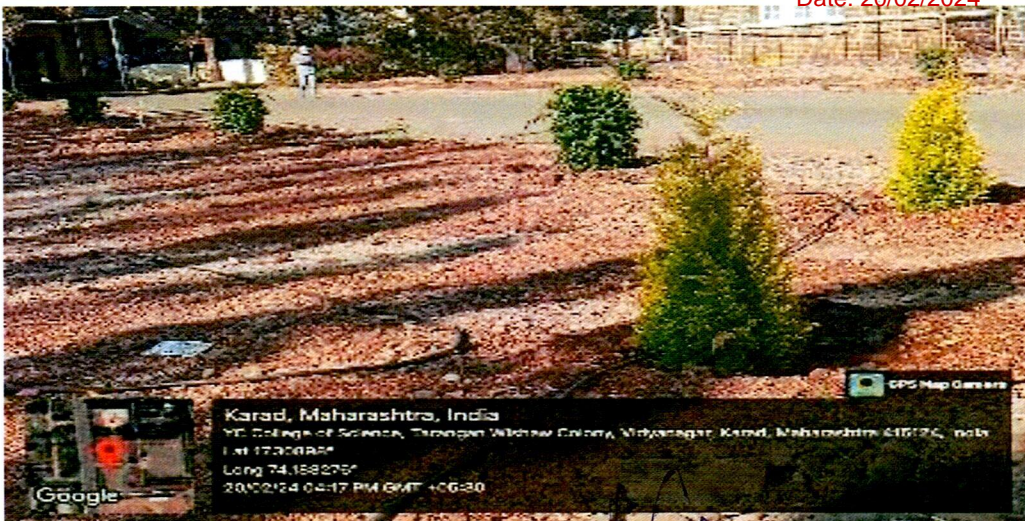
Drip Irrigation for Plants



Date: 20/02/2024



Date: 20/02/2024



Date: 20/02/2024



Co-ordinator,
Internal Quality Assurance Cell (IQAC),
Yashwantrao Chavan College
of Science, Karad



Principal
Yashwantrao Chavan College of Science, Karad
WATER CONSERVATION FACILITIES