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<b>Criteria 7</b>	Institutional Values and Best Practices
<b>Key Indicator - 7.1</b>	Institutional Values and Social Responsibilities
	Environmental Consciousness and Sustainability
<b>7.1.4</b>	Water conservation facilities available in the Institution: <ol style="list-style-type: none"><li>1. Rainwater harvesting</li><li>2. Borewell /Open well recharge</li><li>3. Construction of tanks and bunds</li><li>4. Wastewater recycling</li><li>5. Maintenance of water bodies and distribution system in the campus</li></ol>



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#### 7.1.4 Water Conservation Facilities Available in the Institution:

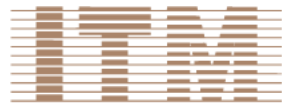
S.no	Water Conservation Facilities	Hyperlink
1	Rainwater harvesting	<a href="#">View</a>
2	Borewell /Open well recharge	<a href="#">View</a>
3	Construction of tanks and bunds	<a href="#">View</a>
4	Waste water recycling	<a href="#">View</a>
5	Maintenance of water bodies and distribution system in the campus	<a href="#">View</a>

## **1.CONSTRUCTION OF RAINWATER HARVESTING :**

Rainwater harvesting pits were developed in the campus as per the following details:

### **Location of Rain Water Harvesting at ITM University, Gwalior (Turari Campus)**

1. Near Canal Section Behind Amul.
2. Near Canal Section Behind Bazaar
3. At New Bus Parking.
4. Near Leonardo Da Vinci Block
5. Near Tapti Hostel
6. Near Tapti Hostel canal
7. Behind Naad Amphitheatre
8. Near Girls Hostel



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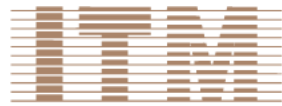
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## Rain Water Harvesting Pits

Rainwater harvesting pits are subsurface structures designed to collect and store rainwater for later use. Excavated in the ground and lined with impermeable materials, these pits capture rainwater runoff from roofs or surfaces and store it underground. The stored rainwater can then be used for various purposes such as irrigation, groundwater recharge, and non-potable household uses. Rainwater harvesting pits help conserve water, reduce flooding, and promote sustainable water management in urban and rural areas.



### RWH-1 at Canal Section behind Amul



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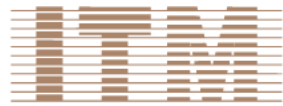
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### RWH-2 at Canal Section behind Bazaar



### RWH-3 at New Bus Parking



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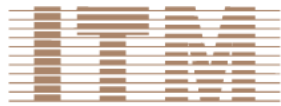
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**RWH-4 Near Leonardo Da Vinci Block**



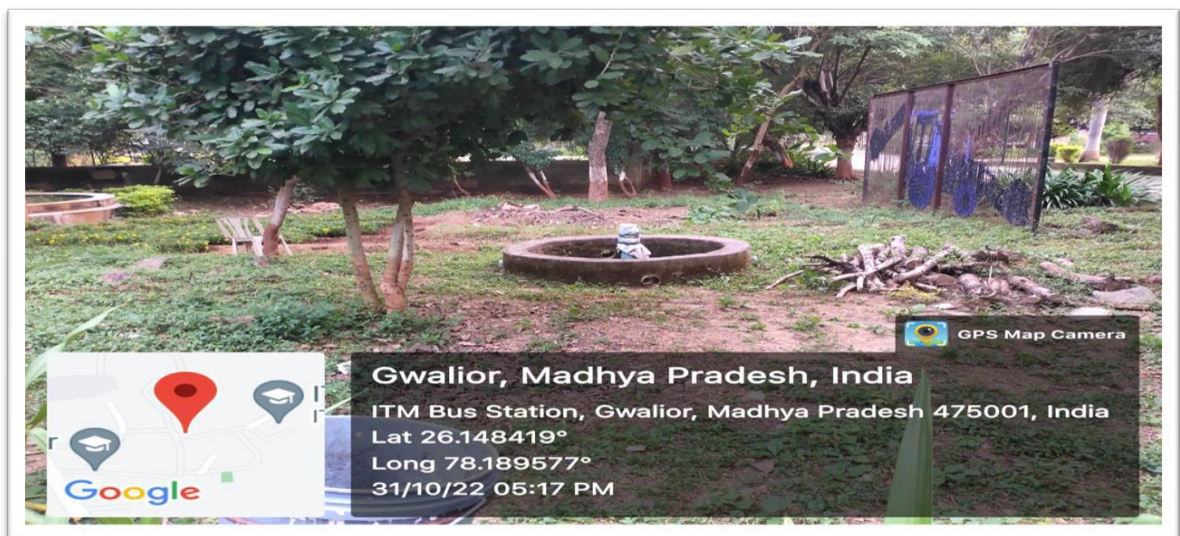
**RWH-5 Near Tapti Hostel**



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**RWH-6 Near Tapti Hostel Canal**



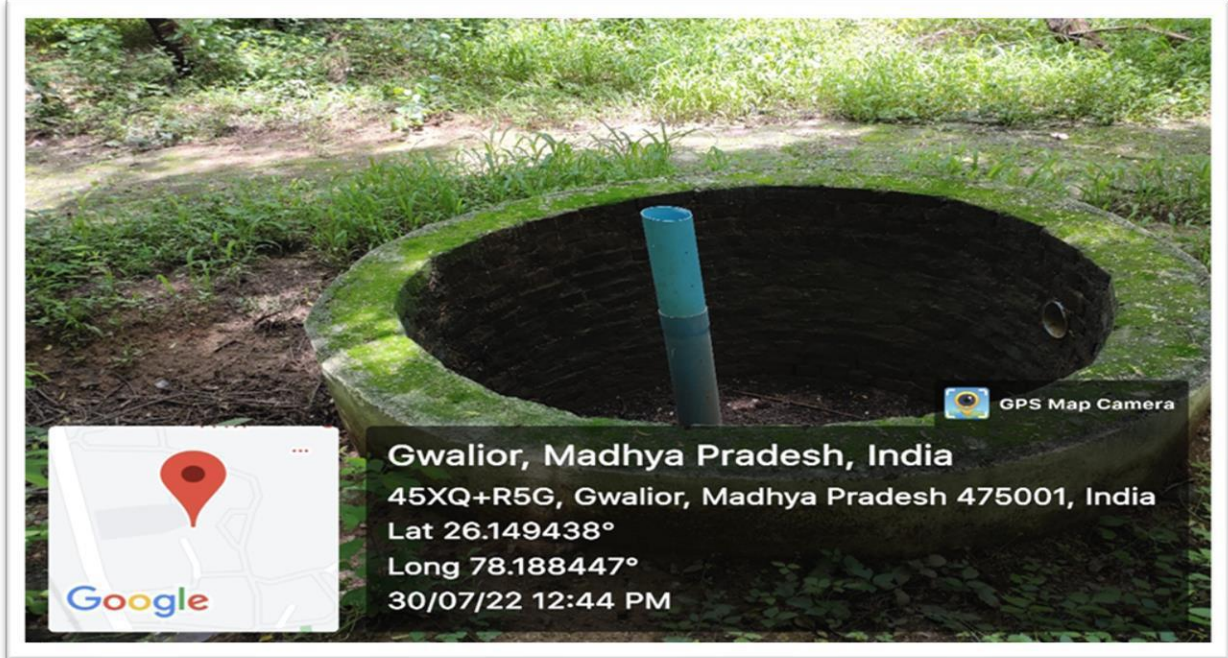
**RWH-7 Behind NAAD Amphitheatre**



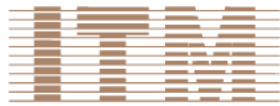
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### **RWH-8 Infront of School of Agriculture**



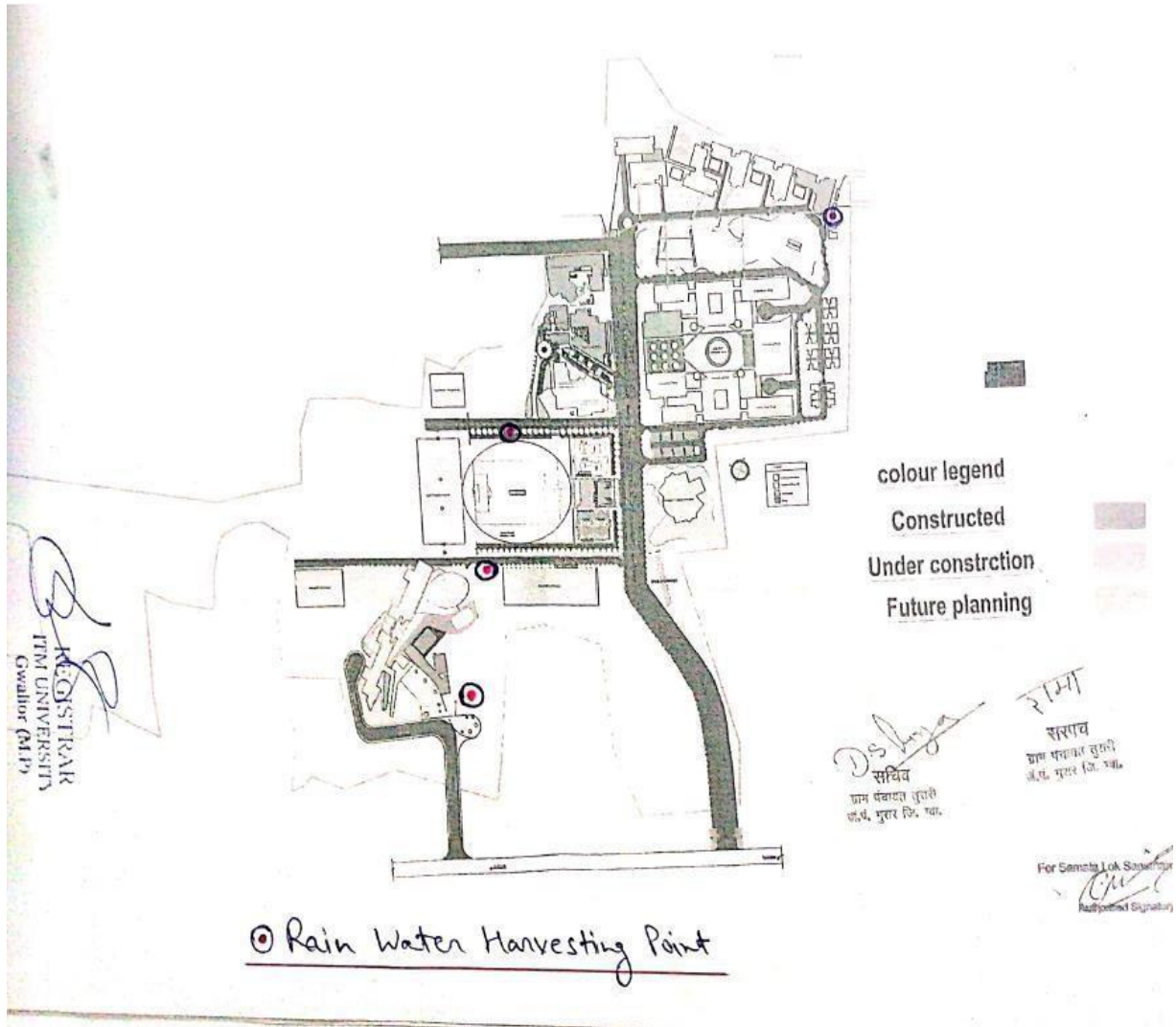


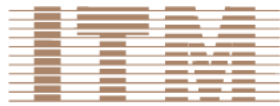


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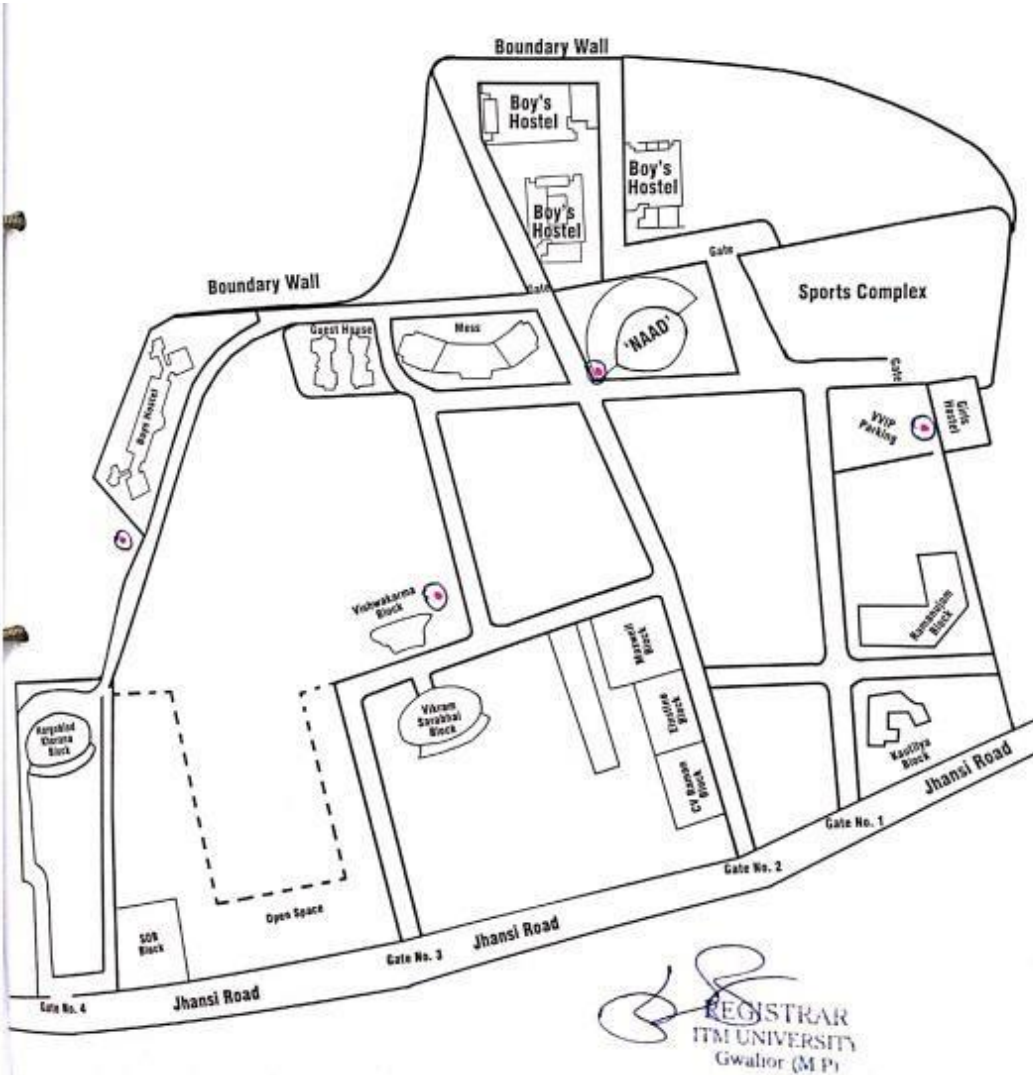
## Rain Water Harvesting Location Layout



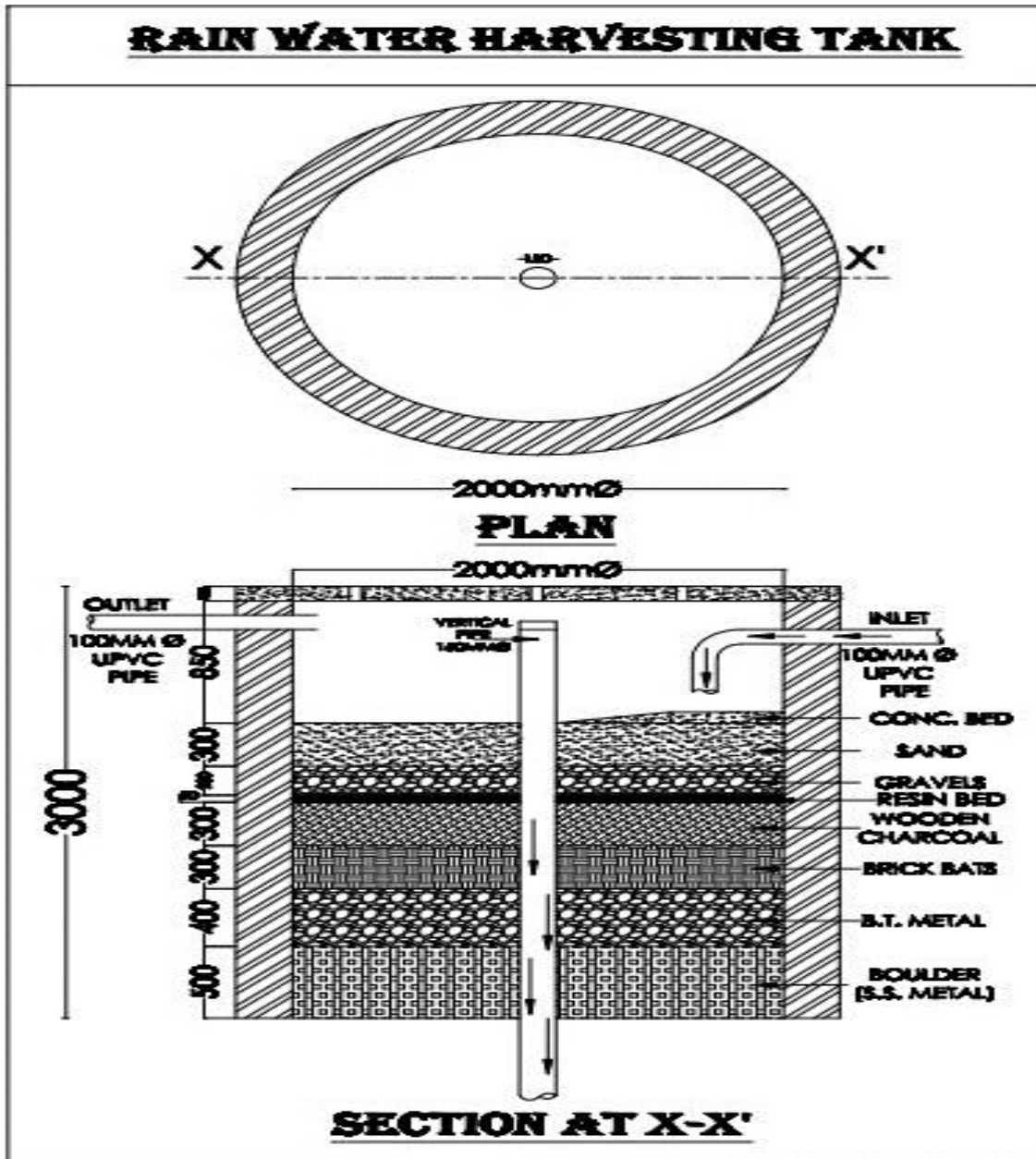


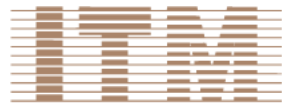
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## Rain Water Harvesting Plan & Section





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## **2. BOREWELL**

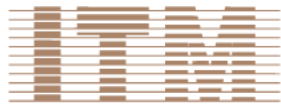
At various places in the campus, the borewells are there which are the major source of water supply throughout the campus. The water is fetched and stored in the underground tanks and is then lifted to the overhead tanks of every building and supplied.

Location of borewell

- 1.Near LDV block
- 2.Near New bus parking
- 3.Near Transport office
- 4.Outside main gate
5. Near Tapti Hostel Road
- 6.Outside Tapti hostel
- 7.Near old hostel
- 8.Inside LDV block
- 9.Infront of Ramanujan Block

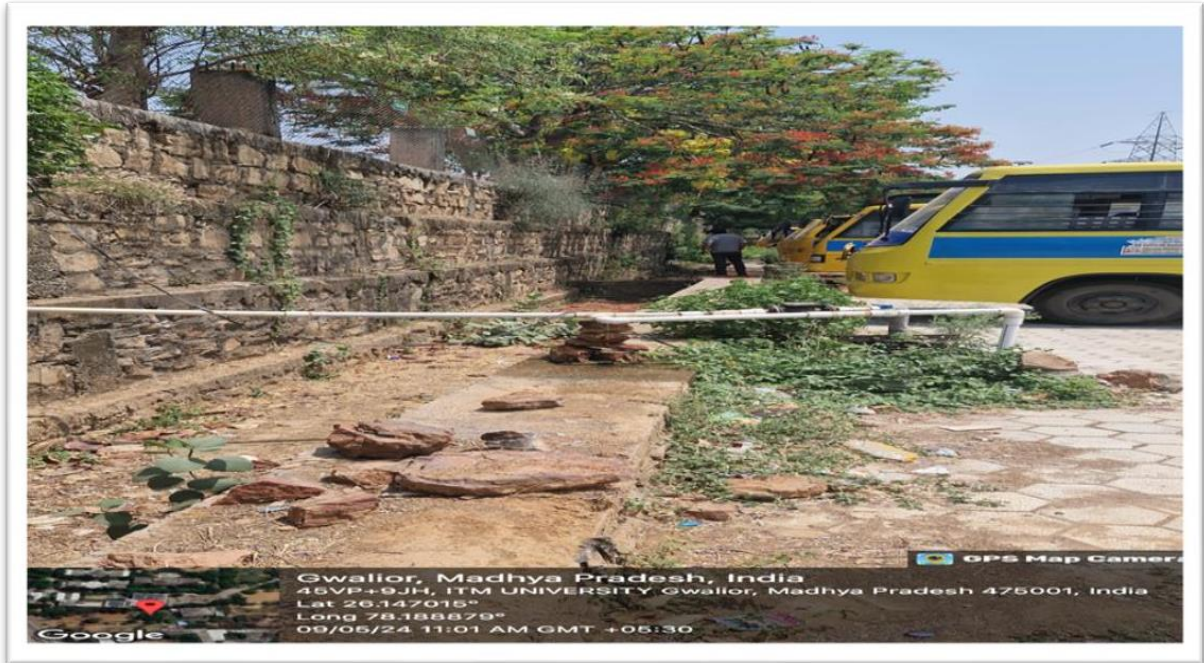


### **BW1.Near LDV Block**

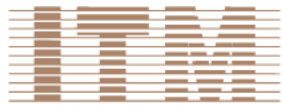


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**BW2.Near New Bus Parking**



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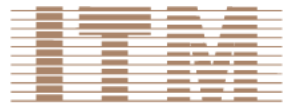
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**BW3.Near Transport Office**

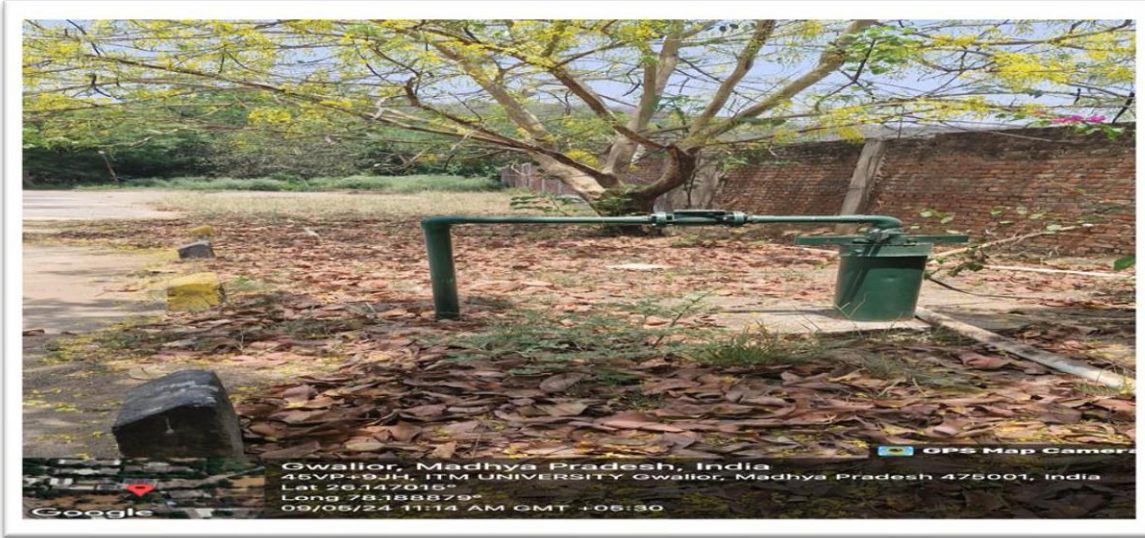


**BW4.Outside Main Gate**

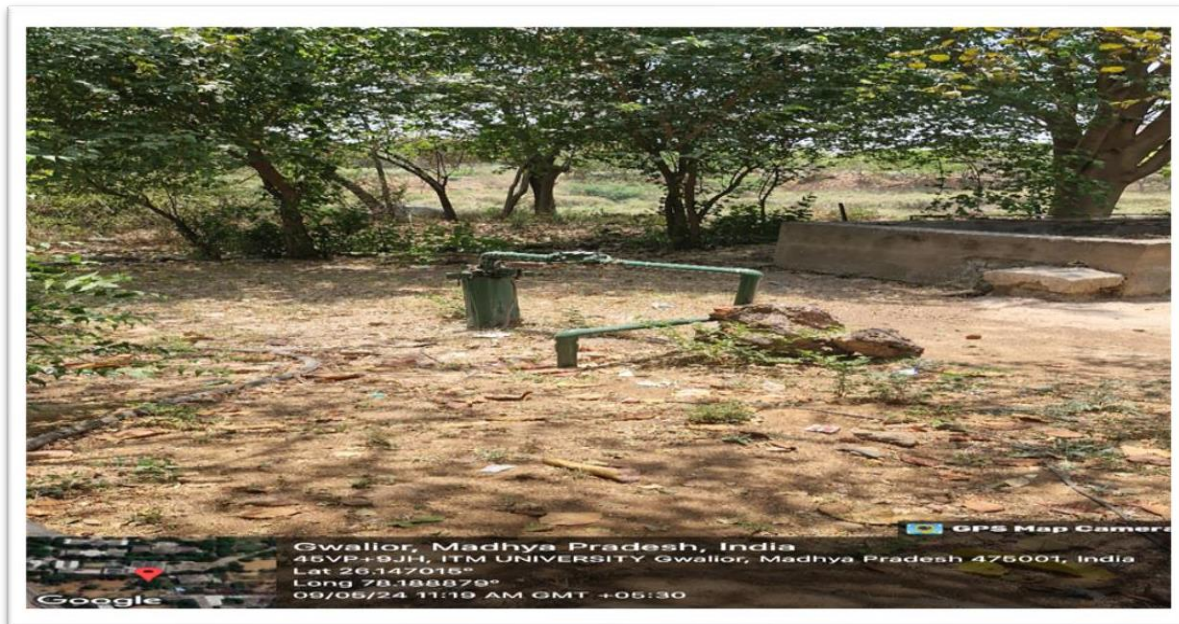


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**BW5.Near Tapti Hostel Road**

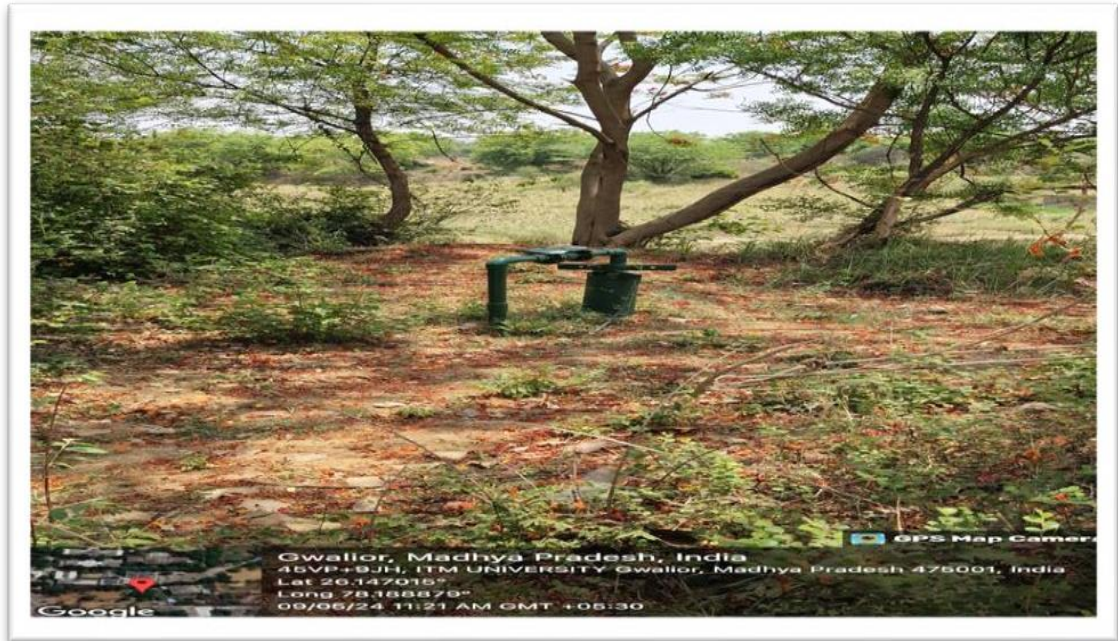


**BW6.Outside Tapti Hostel**



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**BW7.Outside Old Hostel**



**BW8. Inside LDV Block**



### 3.CONSTRUCTION OF TANKS & BUNDS

At ITM University a capacity of 2,000 to 5,000 Liters and underground tanks each having a capacity of 20,000 liters. Water from the bore well, open and other water bodies are collected through the pipes and stored in these tanks in each academic block. The maintenance department of the University takes responsibility for cleaning the tanks regularly as per the norms.

We have a separate tank system for drinking as well as bore water for convenient usage. The proper Bunds are constructed on the we have an adequate number of overhead storage tanks to store water storage tanks having campus and used for retaining the water, creating obstruction and thus controlling

#### Location

1. 3 under ground tanks near LDV block
2. Over head tanks placed on every blocks
3. 2 bunds behind JC block
4. 2 bunds near hostel road
5. 1 bund opposite to New girls hostel



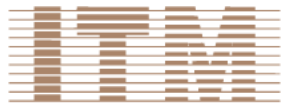


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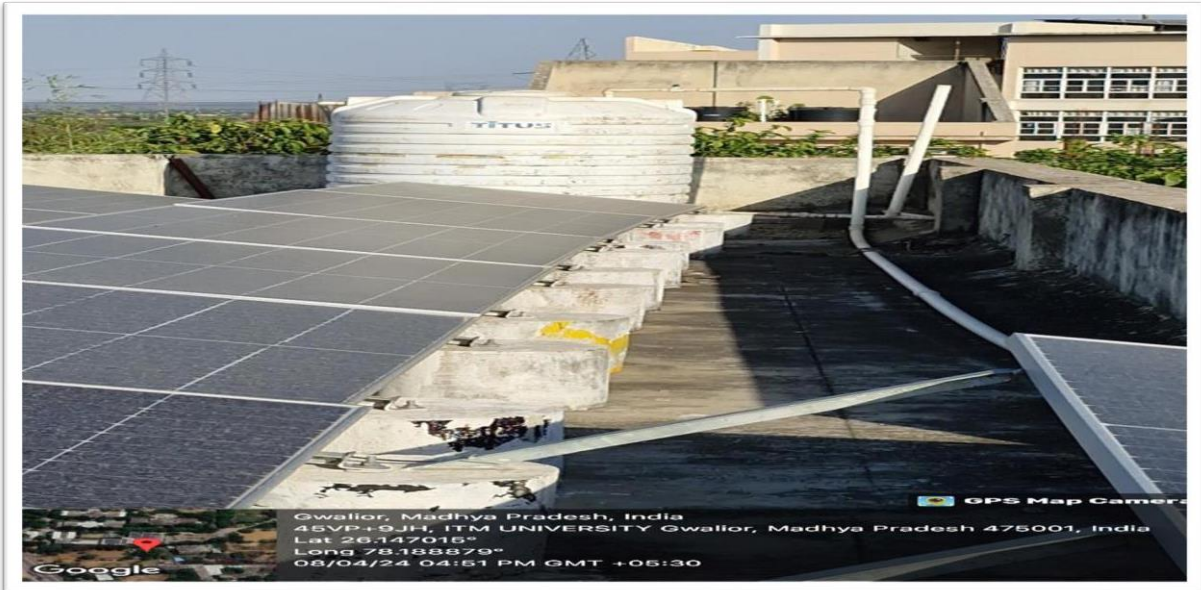


**UG Tanks Near LDV Block**



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## OH Tanks



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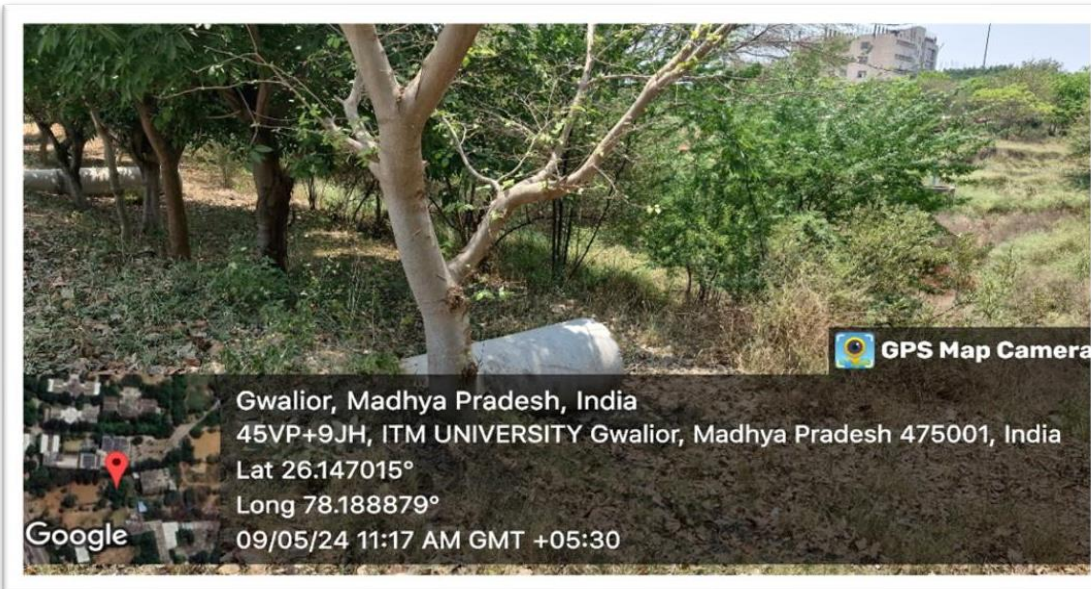


### Bunds Behind JCB Block



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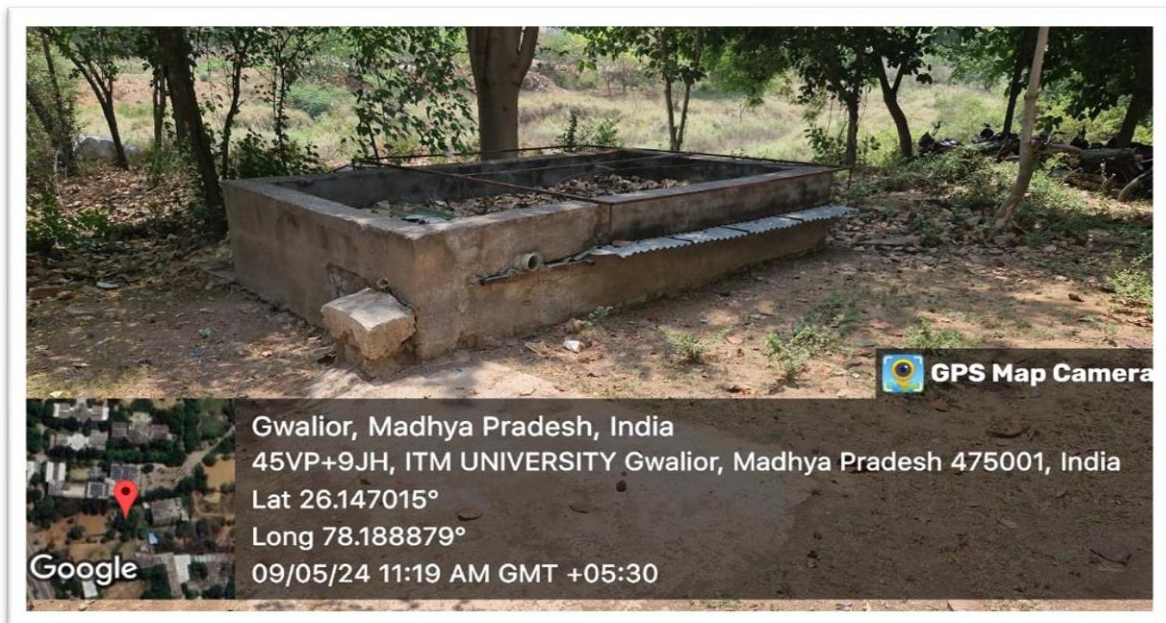
**Bunds Near Hostel Road**

## **4. WASTE WATER RECYCLING**

At ITM University, separate hostels are constructed and these accommodate around 850 boys and 400 girls. Almost 40,000 liters of water demand are for these hostels for smooth functioning. Total water demands are being met extracted from groundwater through bore wells and these are recharged with ground tanks and harvesting pits. Total wastewater produced from these hostels is treated with a centrally constructed decentralized wastewater treatment plant. This decentralized wastewater treatment plant with an installed capacity of 80 KLD STP and 20 KLD ETP is in the hospital premises. The wastewater after treatment is proposed to be utilized effectively for gardening and agricultural land purposes. This will incidentally drastically reduce the usage of fresh water.

### **Location**

1. Near Tapti hostel
2. Near Hostel Road





## Near Hostel Road

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## 5. MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN THE CAMPUS

The water bodies are maintained regularly to provide sustainable, consistent, economically safe, and adequate water to the campus. The main objective of the maintenance is to provide a disease-free environment.

The distribution of water is done through a well-equipped system of pipes. The groundwater is pumped into storage tanks located at different places on the campus 1000 to 5000 liters based on the capacity of the tank. The water from the overhead tank is distributed to all taps across the campus. Our institution plumbers maintain the plumbing system. Whenever the problems are identified immediate actions are taken to restrict the wastage of water

### **RO Water Plant:**

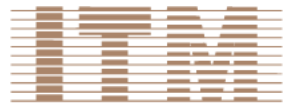
ITM University has its mineral water (RO) plant on the campus. Health is wealth, so ITM University has installed mineral water plants in various locations enabling safe drinking water supply through a separate type of distribution system and other sets of distribution pipes are used for all other activities. It provides healthy and clean drinking water to staff and students. This water is provided to the classrooms, laboratory, hostel, and mess. In addition to this water coolers are also provided to the students

The entire distribution system is well supervised by the Civil works committee to ensure that there are no leakages and wastage of precious water through joints, valves, etc. By using Low flow plumbing fixtures, low pressure flushes the wastage of water is highly reduced. All the stakeholders of the university are educated and motivated about the importance and the usage of water economically and efficiently on the campus. Scheduled Inspection of machinery is done on a daily, weekly, monthly, and annual basis in the campus. To avoid leakages and to prevent wastage of water, the overall distribution system on the campus is well maintained and supervised by the Maintenance Department of the university.

### **Location**

- |   |                              |
|---|------------------------------|
| 1. On main road near school of physical education | 6. Near Venukunj             |
| 2. Inside LDV                                     | 7. Near Narmada Boys hostel  |
| 3. Near Kirloskar block                           | 8. Near Agriculture workshop |
| 4. J C Bose block near canteen                    |                              |
| 5.2 RO in hostel                                  |                              |





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### 1.Near Sports Arena



### 2.Near Kirloskar Block



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3.Near JC Bose Block



4.Near Students Mess