# Summary Sheet

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| 7.1.4 | ***Water conservation facilities available in the institution:***<br>1. Rainwater harvesting<br>2. Bore well/ Open Well Recharge<br>3. Waste Water Recycling<br>4. Maintenance of water bodies and distribution system in the campus. | 4M |
| $Q_nM$ | A. Any 4 or All of the above<br>B. Any 3 of the above<br>C. Any 2 of the above<br>D. Any 1of the above<br>E. None of the above | |
| | **File Description**<br>• Geotagged photographs / videos of the facilities<br>• Any other relevant information<br><br>**Note: Data template is not applicable to this metric.** | |

## CLAIM

**MLR Institute of Technology (MLRIT)** has taken an initiative to conserve water in order to reduce the dependency on water tankers in the campus and also to increase the ground water level. The following are the water conservation facilities available in **MLR Institute of Technology (MLRIT)**

1. **Rainwater harvesting: MLRIT** has 3 Rain water harvesting pits. Each rain water harvesting pit has the dimensions of 4 ft in diameter and 25 feet deep. Pit constructed with cement ring each of height 1 ft. Pits are located at Corner of Cricket Ground, Corner of Football Ground and in Mahatma Gandhi Block.

   Capacity of the pit depends on the volume of water conseving.

   Here d= diameter of the pit =4 ft
   Depth =25 ft
   Upon calculating we get 314 cubic feet of water will be conserved by each pit Conversion of cubic feet in to cubic meter 1 cubic feet= 0.0283 cubic meter ie each pit can conserve 8.89148 cubic meter water. Each cubic meter can accommodate 1000 liters (1 kilo liter )of water. ie . capacity of each pit is 8891.48 liters.

   MLRIT has 3 Rain water harvesting pits with same capacity. ie. All 3 pits can conserve 26,674.44 liters of rain water .

2. **Bore well/ Open Well Recharge:** MLRIT has 4 bore wells which varies depth from 600ft to 800 ft each located at Mahatma Gandhi Block, Indoor Stadium, corner of Cricket Ground and near Boys hostel.
3. **Waste Water Recycling:** MLRIT has a Sewage Treatment plant. The collected waste water will be chemically treated in tank 1 and then shifted to tank 2. The water will be chemically treated again and will be pumped to sumps. Ground Pipe line is laid for nearly 1500 meters to use treated water for watering plants, cricket ground and football ground. Sprinkler systems and pipes are used to water grounds and plants.
4. **Maintenance of water bodies and distribution system in the campus:** MLRIT has 4 RO water plants for serving drinking water needs in campus and hostel. These plants are situated at Old Girls Hostel, New Girls Hostel, Boys Hostel and SR Block. The water collected from bores will undergo Reverse Osmosis (RO) process and is supplied to each floor through water dispersers. Girls and Boys hostels are having 1 Water dispenser per floor where as Academic Blocks have 3 water dispensers per floor.

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