

#### Pune District Education Association's

## Shankarrao Ursal College of Pharmaceutical Sciences and Research Centre, Kharadi, Pune-14



### Criterion 7 - Institutional Values and Best Practices

7.1.4
Water conservation facilities available in the Institution

Supporting Documents



### **Water Conservation Policy:**

Water is one of the vital elements available for our survival on Earth. Water shortage is one of today's rising challenges, and water conservation is the ultimate answer. Issues related to water governance have not been addressed adequately. Mismanagement of water resources has created a crisis in many sections of the country. In this regard, our institute is dedicated to rainwater harvesting. We have implemented numerous water-saving efforts, such as rainwater collection from rooftop run-offs, and bore well recharge systems, the maintenance of water distribution systems, and so on. Therefore, institute adopt a policy for water conservation and resource sustainability.

#### **Policy:**

- 1. To Reduce wastage of water.
- 2. To repair sources of water leakage, such as dripping taps as quickly as possible.
- 3. To installation of appliances which reduce water consumption.
- 4. To make provision to harvest rainwater.
- 5. To use bore well recharge system.
- 6. To use drip irrigation system.
- 7. To construction of Tanks and Bunds at some places in college campus.
- 8. To use paved paths are used rather than concrete ones to allow for water percolation.
- 9. Water-saving practices will be promoted on campus.
- 10. Cleanliness campaign to avoid water runoff and waste material blockage of local water sources.
- 11. To ensure that all sections and departments on the college campus have constant water supply.

#### 1. Rain Water Harvesting



#### 1. Detail Information of Rain Water Harvesting System:

Rainwater harvesting or the collection of rainwater in a proper way, can be a permanent solution to the problem of water crisis. There is sufficient rain but the groundwater supply is not sufficient on the one hand and on the other surface water resource is insufficient. Although the earth is three-fourths water; very little of it is suitable for human consumption or agriculture. Indian subcontinent faces acute water crisis during the summer months. Rainwater harvesting therefore is an ideal solution for consistent water supply. So college has installed two Rainwater Harvesting systems.

#### Total Roof area of College: 16,565 Sq. foot

College Flat roofs made with reinforced cement concrete with have waterproofing course on the surface as a finish. The waterproof course is done with a small slope towards the down take pipes.

**Channelization:** The rainwater from roof is transporting using down water pipes (PVC).

**Recharge of ground Water:** Collected Rain water directly passes to bore well for recharge the groundwater level.

Roof yield or potential rainwater from a roof: Roof yield or the potential rainwater from a roof is normally referred to the annual yield from a given roof area. Annual yield is the quantity of water in liters collected from a given roof over a period of one year covering all the rainy days.

Roof Yield= Area of Roof (sq. feet) X Average rain fall (Inch) X 2.36 (Constant)

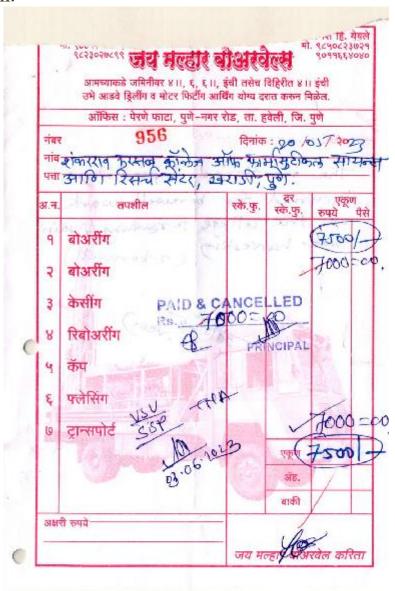
Roof Yield:  $16,565 \times 27.55 \times 2.36 = 10,77,023$  liters/year

#### 2. Bore Well



There are two bore wells in the college campus. Collected Rain water directly passes to this bore wells for recharge the groundwater level.

#### Tax Invoice & Bill:



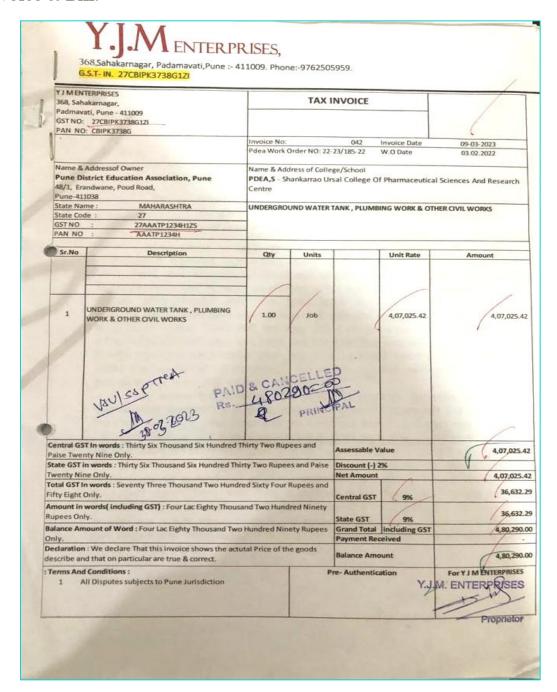
#### 3. Construction of Tanks



The institute have sufficient number of water tanks for storage of water. **Details of Tanks as Follow:** 

Sr. No.	Tank No.	Type of Tank	Capacity (Liters)
1.	Tank No. 1	Under Ground- Constructed	6,000
2.	Tank No. 2	Under Ground- Constructed	50,000
4.	Tank No. 3	Overhead- Constructed	20,000
5.	Tank No. 4	Overhead- Constructed	15,000
6.	Tank No. 5	Overhead- Plastic	1,000

#### Tax Invoice & Bill:

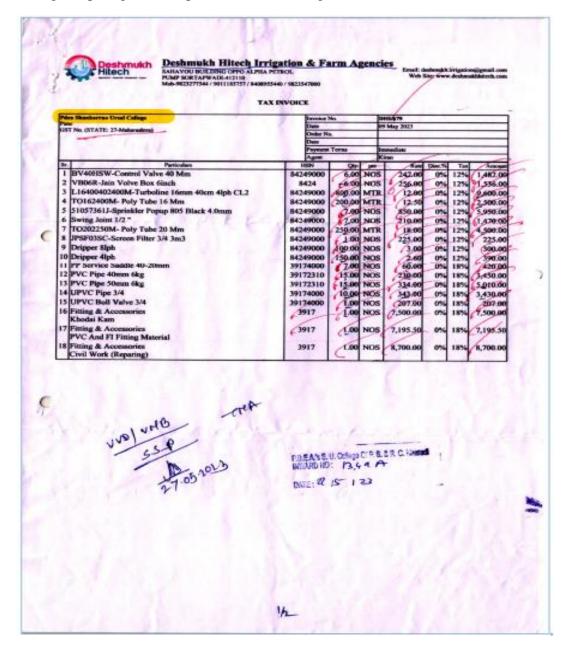


#### 4. Maintenance of Water Bodies and Distribution System in The Campus



# Details of Maintenance of Water Bodies and Distribution System in The Campus:

The water connection of Pune Municipal Corporation is in the college. This water is stored in tank number underground tanks (Total Capacity: 56, 000 Lit.). The water stored in the underground tank is released to the tank above the roof top (Total Capacity: 36, 000 Lit.) with the help of electric pump as per the requirement of the institute. The water from the tank above roof top is circulated to all departments of the college with the help of PVP pipes. **Drip Irrigation:** All the plants in the college are watered through drip irrigation & sprinkler avoid wastage of water.





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