

**JSPM's Bhivarabai Sawant Institute of Technology & Research, Wagholi,  
(412207) Pune**

**CRITERION 7 - INSTITUTIONAL VALUES AND BEST  
PRACTICES**

**7.1**

**Institutional Values and Social Responsibilities**

**7.1.4**

**Water conservation facilities available in the Institution**

**RO Water Treatment plant, Sewage Water Treatment Plant,  
Facility of Rain Harvesting**

## 1. Reverse Osmosis Water Treatment Plant :

Institute has a RO water treatment plant which caters a nice quality of drinking water to around 10000 students and staff members. The capacity of plant is 50000 Ltr./Hr.



## 2. Sewage Water Treatment Plant and its Recycling:

The campus generates liquid waste from various sources in campus like the buildings of the institute, hostels and canteens. This waste is treated in dedicated sewage treatment plant with a capacity of 14000 lit/day installed in the campus. Later this water is utilized for non-drinking applications like gardening and watering the pathways and washing floors etc., in the campus.



### **3. Facility of Rain harvesting:**

Rainwater harvesting is a critical component in integrated urban water management. Roofs are an ideal location for rainwater harvesting for three main reasons. First, gravity can be used to collect runoff thus eliminating the need for electricity for pumps. Second, when compared to toilet and other household wastewater, water collected from roofs could be relatively clean. Third, a second and separate plumbing system would not be required. The rain water harvesting structure existing in the institute consists of PVC pipes laid from the roof tops which are then connected to a main PVC pipe. This main pipe leads the water to a bore well. Water from this bore well is drawn and utilized for non-drinking purposes gardening and watering the pathways and washing floors etc., in the campus. The details of rain water harvesting system are as follows:

Roof Top surface area = 1320 sq. m

Total Covered Catchment Area: 1.1 Acre

Depth of Borehole: 250 ft

Total Cost of Project: 51,135/- (Fifty one Thousand one Hundred thirty Five)

