

**Marathwada Shikshan Prasarak Mandal's
DEOGIRI COLLEGE, AURANGABAD**



REPORT ON WATER RECYCLING UNIT

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Recycling of Water:

In girls hostels of Deogiri College, there is accommodation facility for 1095 girls. For domestic purpose, per head use of water is near about 100 liter. So total water requirement for domestic use in girls hostel per day is 1,095 X 100 liters (1,09,500 liters) and it is 32,85,000 liters for one month and yearly it is 3,28,50,000 liters. To recycle the used water used in the hostel, a separate pipeline is provided for waste water from bathroom. It accumulates in a filter bed constructed between the engineering building and the hostels with the size of 8 X 15 X 10 feet and it is filtered there. Considering the availability of waste water for recycling purpose is 80% of the total utilized water the available water for recycling purpose is 2,62,80,000 liters/ year. When water circulates through this filter bed by gravity at lower level all the filtered water is collected in another tank. This filtered water is reused for gardening and watering the lawns. This collected water is utilized for gardening and watering of plants, lawns in the college campus.




**Principal
Deogiri College,
Aurangabad.**

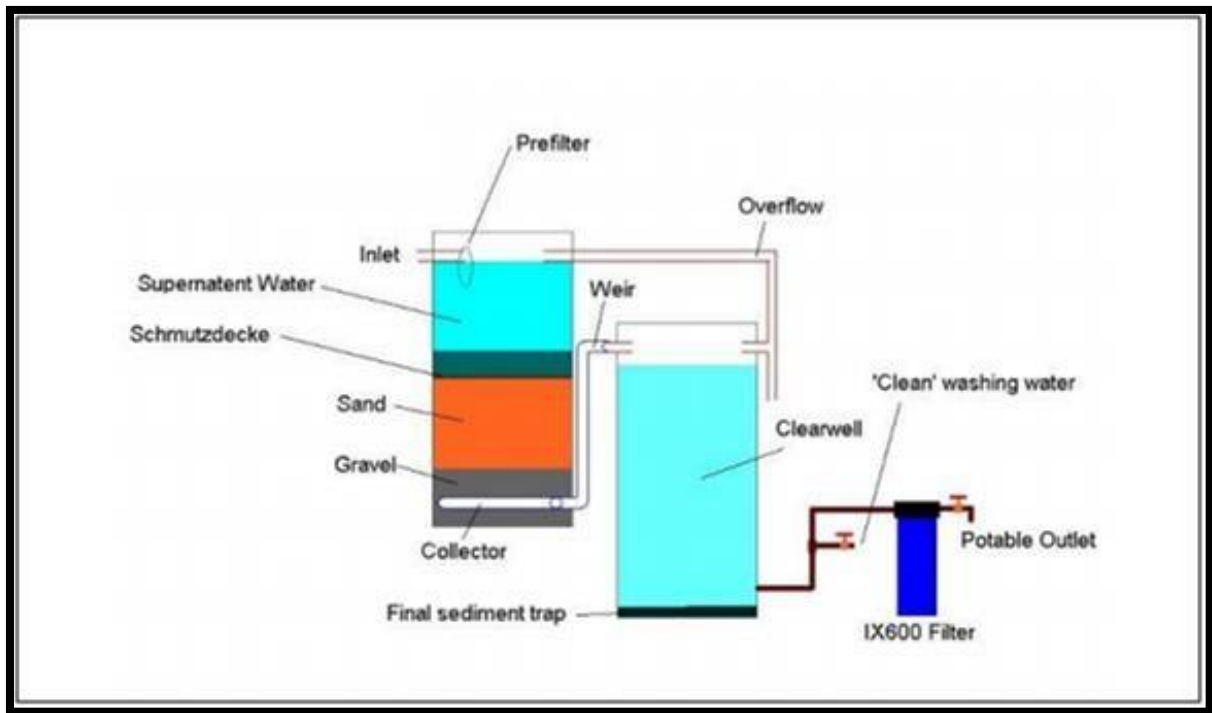


Fig 01:- Water recycling process.



Fig 02:- Water recycling unit.



Fig 03:- Solid waste Collector pit of water recycling unit.



Fig 04:- Final sediments trap pit of Water recycling unit.




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