

Sahajeevan Shikshan Sanstha's
**Shrimati Indira Mahadev Beharay College of
Arts,
Shriman Chandulal Sheth College of Commerce,
Shrimati Shobhanatai Chandulal Sheth College of
Science,
Khed-Ratnagiri, Maharashtra, India.**



WATER CONSERVATION

**Academic Year
2018-19 to 2022-23**



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Sahajeevan Shikshan Sanstha's

Estd.-1990

**SHRIMATI INDIRA MAHADEV BEHARAY COLLEGE OF ARTS
SHRIMAN CHANDULAL SHETH COLLEGE OF COMMERCE &
SHRIMATI SHOBHANATAI CHANDULAL SHETH COLLEGE OF SCIENCE**

KHED, Dist. RATNAGIRI (M.S.) - 415 709.

(Permanently Affiliated to University of Mumbai)

NAAC Re- Accredited B⁺⁺ Grade (CGPA-02.83)

(As Per Revised Accreditation Process July - 2017)

Mumbai University "BEST COLLEGE AWARD"(2017-18)

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Ref. No.: ICS/

Date :

Policy of Water conservation

Preamble:

Water scarcity is one growing concerns of the present times, the ultimate solution for which is water conservation. Issues related to water governance have not been addressed adequately. Mismanagement of water resources has led to a critical situation in many parts of the country. In this context our institute is committed to rain water harvesting and sustainable water management. We have taken several initiatives to conserve water such as rain water harvesting from rooftop run-offs, creation of pond/trenches and bore well recharge system, maintenance of water distribution system etc. Therefore, institute make a policy for water conservation and sustainable maintenance of resources.

Vision:

Proper water conservation measures to increase recharge of groundwater. The College views water from the three inter-related dimensions of Efficient Conservation, Responsible Consumption and Restoring and Retaining surface and groundwater.

Objectives:

- To increase recharge of groundwater by capturing and storing rainwater, by rain water harvesting from rooftop and run-offs.
- To store the water for gardening & washing purpose.
- To ensure continuous water supply to all sections and departments in college campus.
- To recharge bore well system in monsoon season.
- To Reduce wastage of water • Soak pits to treat effluents from laboratories.
- Cleanliness drive to prevent water runoffs and clogging of waste material into nearby water sources. Facilities:
- Rain water harvesting from rooftop run-offs.
- Well-developed bore well recharge system
- Low pressure & sensor-based water tabs in some areas of campus



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- Water distribution system in the Campus
- Soak pits to treat effluents from laboratories.

**Policy Document on Water Management Conserve water; every drop counts.
College Procedure:**

- Obtain an approval status from the governing body for implementation of the policy
- Communicate the objectives of the policy and action plan to staff members and students
- Maintenance Water distribution system in the Campus through Go Green Committee

Date of policy developed- 08/07/2019

Date of policy revised- 07/07/2022



Anahit J.
Ic PRINCIPAL
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Rain Water Harvesting

Rainwater harvesting is the process of collecting, storing, and utilizing rainwater for various purposes such as irrigation, domestic use, and groundwater recharge. This practice helps conserve water resources and reduce the strain on traditional water sources. Here is a step-by-step process of rainwater harvesting:

- 1. Assessing Feasibility:** Determine the feasibility of rainwater harvesting in your area by considering factors such as average rainfall, roof area, water demand, and local regulations.
- 2. Design and Planning:** Develop a rainwater harvesting system design based on your specific needs and available resources. The design should include the type of catchment surface (usually rooftops), guttering, downpipes, filtration, storage tanks, and distribution system.
- 3. Catchment Area:** The catchment area is typically the rooftop of your building or any other suitable surface where rainwater can be collected. Ensure that the catchment area is clean and free from contaminants.
- 4. Gutter and Downpipe Installation:** Install gutters and downpipes to channel rainwater from the catchment area to the storage system. Ensure proper slope and alignment to avoid water leakage.
- 5. First Flush Diverters:** Install a first flush diverter system to divert and flush out the initial runoff from the catchment surface. This helps remove debris and contaminants, improving the quality of collected water.
- 6. Filtration:** Install a filtration system to remove larger particles, debris, and contaminants from the rainwater. This can include mesh screens, gravel filters, sand filters, and more advanced filtration methods.
- 7. Storage Tanks:** Choose and install suitable storage tanks to store the harvested rainwater. Tanks can be above-ground or underground and should be made of materials safe for storing water. Common materials include plastic, concrete, or fiberglass.
- 8. Tank Overflow and Maintenance:** Install overflow outlets to divert excess water when the storage tanks are full. Regular maintenance of the storage tanks, including cleaning and disinfection, is essential to ensure the quality of the stored water.
- 9. Purification (if necessary):** Depending on the intended use of the harvested rainwater, you may need to install additional purification systems such as UV treatment, chlorination, or other water treatment methods.
- 10. Distribution System:** Install a distribution system to convey the harvested rainwater to the intended end-use points. This could involve gravity-fed pipes for irrigation or pumps for indoor use.
- 11. Usage and Monitoring:** Begin using the harvested rainwater for the designated purposes. Monitor the system's performance, water quality, and storage levels regularly to ensure efficient operation.
- 12. Education and Maintenance:** Educate household members or users about the rainwater harvesting system and how to maintain it properly. Regularly inspect and maintain the system to prevent clogs, leaks, or other issues.

Remember that rainwater harvesting practices can vary depending on the scale, purpose, and local conditions. It's important to adhere to local regulations and seek professional advice if needed during the design and installation process.


PRINCIPAL,

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