



Office of The Principal Shri Pandit Prem Nath Dogra Government Degree College Samba

J&K (UT) - 184121
NAAC Accredited Grade-B

विकसित
- अभियान -
1947 - 2017

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Principal

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Policy Document: Rainwater Harvesting at SPPND GDC Samba

1. Introduction

Rainwater harvesting is a sustainable practice that involves the collection and storage of rainwater for various uses. At SPPND GDC Samba, we actively implement a rainwater harvesting system to address water scarcity and environmental concerns. This initiative aligns with our commitment to promoting sustainability, reducing dependency on external water sources, and fostering ecological responsibility among students and staff.

2. Objectives

The rainwater harvesting policy aims to:

- Conserve water by harvesting rainwater efficiently.
- Reduce dependency on groundwater and municipal water supply.
- Minimize water wastage and manage runoff to prevent soil erosion.
- Create awareness among students and staff about water conservation techniques.
- Enhance the college's contribution to sustainable development goals (SDGs).

3. Benefits

- **Environmental Benefits:** Reduces groundwater depletion and prevents waterlogging and erosion.
- **Economic Benefits:** Lowers water bills by reducing reliance on external water sources.
- **Educational Benefits:** Serves as a live model for teaching and research on sustainability and water management.
- **Community Impact:** Sets an example for the local community to adopt rainwater harvesting practices.

4. Implementation Strategy

We follow a systematic approach to implement our rainwater harvesting system:



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4.1 Site Survey and Planning:

- A survey of potential catchment areas (rooftops and open spaces) across the campus is made.
- Water storage capacity based on average rainfall and campus needs is determined.

4.2 System Design:

- Rooftop catchment areas are equipped with channels and pipes to channel rainwater.
- Rainwater is directed through pipelines into storage tanks.
- We install filtration systems to remove debris and impurities from the water.
- Storage tanks for water collection and groundwater replenishment.
- Pipelines carrying water are designed not to connect directly to the sewage system; instead, they discharge into the ground to facilitate groundwater recharge and sustainable water management.

4.3 Construction and Installation:

- Professional contractors are engaged for the system's setup.
- We use durable materials to ensure a long-lasting structure.

4.4 Awareness Campaigns:

- Workshops and seminars are conducted to promote water conservation among students and staff.
- Educational signage is displayed near the rainwater harvesting system.

MAINTENANCE PROTOCOL

Efficient functioning of the system is ensured through regular maintenance:

- **Inspection:** Monthly inspections check for leaks, blockages, or damage.
- **Cleaning:** Channels, and storage tanks are cleaned regularly.
- **Repairs:** Immediate repairs address any wear and tear.



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DETAILED PLAN

1 Catchment Area:

- Rooftops of the main building and lecture halls are used as primary catchment areas.
- Channels and downspouts direct rainwater to storage systems.

2 Storage and Filtration System:

- Rainwater from rooftops is channeled through pipelines into storage tanks.
- Above-ground tanks with an initial capacity of 500 liters have been installed, with plans to expand the capacity to 5,000 liters.

3. Utilization:

- We use harvested rainwater for:
 - Campus gardening and landscaping.
 - Supplementing water supply for non-drinking needs during shortages.

6.5 Monitoring and Review:

- Our Rainwater Harvesting Committee, comprising faculty, students, and non-teaching staff, oversees the system.
- We conduct biannual reviews to assess system performance and recommend improvements.

The rainwater harvesting system at SPPND GDC Samba demonstrates our commitment to sustainable development. By implementing this policy, we conserve water, promote ecological balance, and inspire future generations to adopt environmentally responsible practices.


PRINCIPAL

