

STANI MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY PHAGI – JAIPUR

Unnat Bharat Abhiyan Activity

Water Resources Management Survey & Awareness Drive जल की हर बूंद है अनमोल – संरक्षण ही सर्वोत्तम समाधान

Event Title: Water Resources Management – Field Survey & Community Awareness under Unnat Bharat Abhiyan

Organized by: Stani Memorial College of Engineering & Technology (SMCET), Phagi

Date: 19 November 2025

Venue: Village – Madanpura

Event Category: Community Outreach & Rural Development Activity

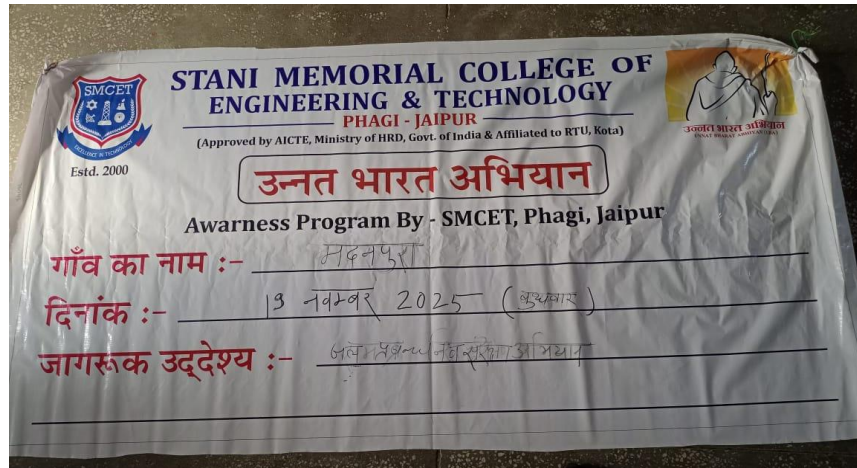
Geo-Tagged Proof: Attached Photo (Latitude/Longitude embedded)

1. Objective of the Activity

The Water Resources Management activity in Madanpura village was organized with the objective to:

- Assess the current water availability, usage, and conservation status in the village.
- Promote awareness about sustainable water management practices among villagers.
- Engage students in real-life problem-solving aligned with Unnat Bharat Abhiyan goals.
- Identify potential solutions to local water scarcity and waterlogging issues.
- Strengthen community–institution partnership for rural development.

This initiative supports UBA’s focus on social responsibility, extension activities, and institutional outreach.



2. Context

Under the Unnat Bharat Abhiyan (UBA) framework, SMCET Phagi adopted Madanpura village for developmental interventions.

The village experiences:

- Seasonal water scarcity

- Traditional dependence on groundwater
- Limited rainwater harvesting structures
- Need for awareness on sustainable usage

To address these concerns, SMCET along with UBA volunteers, conducted a detailed field visit focused on water conservation, mapping water resources, and interacting with local residents.

3. Practice

The activity was executed through structured steps:

Activity Flow

1. **Introductory Session with Village Representatives**
 - Meeting with Sarpanch and community members.
 - Brief explanation of UBA objectives.
2. **Water Resource Survey**
 - Inspection of wells, hand pumps, ponds, and storage tanks.
 - Collection of data on usage patterns and seasonal availability.
3. **Awareness Drive**
 - Discussion on groundwater recharge methods.
 - Demonstration on rooftop rainwater harvesting.
 - Promotion of water-saving practices for households.
4. **Technical Assessment**
 - Identification of areas suitable for check dams or recharge pits.
 - Analysis of soil suitability for percolation.
 - Recommendations for improving existing water systems.
5. **Student Participation**
 - Civil Engineering (CE) students engaged in field measurements, soil testing, and documentation.
 - Computer Science Engineering (CSE) students supported in digital data collection, geo-tagging, and resource mapping.
 - Volunteers interacted with families to collect data and provide guidance.

4. Evidence of Success

- Successful completion of field survey covering major water points in Madanpura.
- Villagers exhibited strong participation and interest in conservation techniques.
- A preliminary water resource map with geo-tagged locations was prepared with support from CSE and CE students.
- Awareness sessions received positive feedback from community members.
- Faculty appreciated the discipline and involvement of participating students.
- The geo-tagged photographs validate field activity execution and authenticity.

5. Problems Encountered and Resources Required

Challenges

- Limited availability of historical water data from the community.
- Difficult access to certain water points due to uneven terrain.
- Difficulty explaining technical concepts to elderly villagers.

Resources Used

- Survey tools (measuring tape, soil testing kits).
- Smartphones for geo-tagging and mapping.
- Posters, charts, and awareness materials.
- Faculty coordinators and UBA student volunteers (CSE + CE).

6. Impact/Outcome

- Increased awareness among villagers on sustainable water usage.
- Identification of suitable zones for rainwater harvesting structures.
- Strengthened collaboration between SMCET and village stakeholders.
- Students gained practical exposure to real-world rural water challenges.
- Support to UBA's mission of evidence-based rural development.

7. Photographic Evidence

Attached Geo-Tagged Photo:

- ✓ Students surveying water resources in Madanpura
- ✓ Water points with latitude/longitude
- ✓ Interaction with community members

8. Future Plans

- Development of a detailed Water Management Improvement Plan for Madanpura.
- Promotion of rainwater harvesting in public and private buildings.
- Construction of percolation pits and check dams with community support.
- Annual monitoring of water sustainability indicators.
- Continued UBA-based outreach involving CSE and CE departments.

9. Coordinators

- UBA Committee – SMCET FACULTY COORDINATORS
- Faculty Coordinator – Unnat Bharat Abhiyan
- Student UBA Volunteers

10. Conclusion

The Water Resource Management activity conducted on 19 November 2025 at Madanpura successfully fulfilled the objectives of Unnat Bharat Abhiyan

The initiative strengthened community engagement, promoted sustainable water practices, and provided practical field exposure to students from both CSE and CE departments.

Through sustained intervention and community partnership, SMCET aims to support the village in achieving long-term water security.

अनमोल है जल की बूंद – समझदारी से करें इसका उपयोग



