

**Registration form**  
**SPARC Sponsored Workshop**  
**on**

**Securing Water for Agricultural and Food Sustainability:  
Developing Transdisciplinary Approach to Groundwater  
Management**  
**20, January 2020**

Name of participant: \_\_\_\_\_  
Qualification: \_\_\_\_\_  
Designation: \_\_\_\_\_  
Department: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Email: \_\_\_\_\_  
Mobile No.: \_\_\_\_\_

I agree to abide by the rules and the regulations governing the workshop.

Place: \_\_\_\_\_  
Date: \_\_\_\_\_ Signature of the Participant

Mr./Ms./Dr./\_\_\_\_\_ is a student/Employee of our Institution and is permitted to attend this programme.

Place: \_\_\_\_\_ Signature of Head of the institution  
Date: \_\_\_\_\_ with seal

**Accommodation**

Accommodation can be provided at the university guest house/hotels nearby on payment basis.

**SPARC Sponsored Workshop**  
**on**

**Securing Water for Agricultural and Food  
Sustainability: Developing Transdisciplinary  
Approach to Groundwater Management**



**January 20, 2020**

**Organized by**

**G B Pant University of Agriculture and Technology, Pantnagar**

**Jointly with**

**Indian Institute of Technology, Kharagpur**

**Sardar Vallabhbhai National Institute of Technology, Surat**

**Western Sydney University, Australia**

**Queensland University of Technology, Australia**

**University of Wisconsin Madison, USA**



Indian Institute of Technology,  
Kharagpur



SVNIT  
SURAT



Queensland University of Technology

## Introduction

Sustainable use of groundwater is becoming increasingly critical in India and requires effective participation from local communities along with technical, social, economic, policy and political inputs. Access to groundwater for farming communities is also an emotional and complex issue as their livelihood and survival depend on it. We proposed a transdisciplinary approach to understanding the issues, challenges and options for improving the sustainability of groundwater use in the states of Uttarakhand, West Bengal, and Gujarat. We will extend the approach of a recently completed project in Rajasthan, called **Managed Aquifer Recharge through Village level Intervention (MARVI)** to the proposed states with different climatic conditions. The focus of the SPARC project is develop village level groundwater management through field testing of the MARVI approach and to build capacity of partner universities in transdisciplinary teaching and research. The expected outcomes of the proposal include the development of an integrated model for sustainable groundwater management; development of a collaborative multi-university undergraduate teaching and post-graduate research program in integrated water resources management; and a monograph titled 'Transdisciplinary Approach to Groundwater Management'

### The workshop consists of the following in each session

- Work Progress
- Keynotes
- Discussions
- Poster Presentations

### Session 1: Groundwater Management: A Transdisciplinary Approach

- To share research and innovation on groundwater management through transdisciplinary approach

### Session 2: Smart Technologies for tracking groundwater pollutants

- To share measurement and monitoring methods in groundwater research in-line with the technology advancement

## Schedule

09.00-09.30	<b>Registration</b>	
09.30-10.30	Inauguration	Vice Chancellor and other dignitaries
10.30-11.00	<b>High Tea</b>	
	<b>Students' poster display</b>	
11.00-11.30	Prof. B. Maheswari	Opening Remarks on "Transdisciplinary Approach to Groundwater Management"
11.30-12.00	Prof. D. R. Mailapalli	Progress on Case study 1: Groundwater levels and quality of selected villages of West Midnapur district of West Bengal
12.00-12.30	Prof H. J. Shiva Prasad	Progress on Case study 3: Groundwater levels and quality of Pantnagar, Uttarakhand
12.30-13.00	Prof J. Patel	Progress on Case study 2: Groundwater levels and quality of selected villages of Surat, Gujarat
13.00-14.30	<b>Lunch Break</b>	
14.30-15.00	Dr S. Chakravorty	Groundwater heavy metal pollution in West Bengal
15.00-15.30	Dr R. Saxena	Smart technologies for monitoring and managing quality of surface and groundwater
15.30-16.00	<b>Tea Break</b>	
	<b>Poster Evolution</b>	
16.00-16.30	To be added	To be added (Web Presentation by International Collaborator)
16.30-17.00	Moderation by Prof D. R. Mailapalli	Open discussion & response among attendees
17.00-17.30	Prof R. Singh	Closing remarks: Water security: present and future challenges

### Contact

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### Venue

G B Pant University of Agriculture and Technology, Pantnagar, 263145, Uttarakhand

