

**One Day Institute Visit Program
under
SERB-DST Project**

***“Assessment of Seasonal hydrological
Interactions of Kharun River With Ground
Water in Raipur City Chhattisgarh
implications to the Vulnerability of
Sustained Water Supply”***

on 17th March 2023

REGISTRATION FORM

Name:
Designation:
Organization:
Qualification:
Correspondence Address:
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Tel. (O) (R)
(M)
E-Mail:

No registration fee

Registration on first come first serve basis

Fill the Google forms for registration:

<https://forms.gle/Jazij3s3RWeTz2uh6>

Signature

Chief Patron

Dr. (Mrs.) A. B. Soni
Director,
National Institute of Technology, Raipur

Patron

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***“Assessment of Seasonal hydrological
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Sponsored by



**Science and Engineering Research Board
(A statutory body under DST, Govt. of
INDIA)**

**(Scientific Social Responsibility (SSR) policy of
SERB)**

**On
17th March 2023**

**Organized by
Department of Applied Geology**



**National Institute of Technology
Raipur-492 010 (Chhattisgarh)**

About the Institute:

National Institute of Technology Raipur situated in the capital of Chhattisgarh, has proven to be 'avant-grade' in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by our president Hon'ble Dr. Rajendra Prasad on 14th September 1956. the institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the Institute building was done by our Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railways station and 18 km from airport on NH-6, the Great Eastern Road.

About Department:

The **Department of Applied Geology** came in existence since 1961. The department provides an outstanding research environment and offers academic program leading to the award of Ph.D. degree. Apart from this, department taking care of all M.Tech batches and training them in basic fundamentals of Applied Geology branches.

Objectives:

Uncontrolled Urbanization and Unregulated growth of Population pressure are big challenges for the Water resource management in Raipur City. As Raipur city is witnessing this issues both in number as well as geographical area over last more than two decades. Shortages in water Supply, the drying up of reservoirs and steady declining groundwater show that, study area water household is out of balance. Public water Supply in raipur city rely heavily on groundwater abstraction from aquifer. Both groundwater and surface water of the area mainly relay on the rainwater for its recharge, hence the depletion of any of it can affect the other one, if it has significant interaction with each other.

The river hydrodynamic processes strongly influence the groundwater. Thus the preservation of groundwater quantity and quality in an active fluvial system needs continuous investigation and monitoring river water- groundwater interaction studies, river dynamics and hydrogeochemistry

This one day Visit is aimed to sensitize participants with the various approaches being adopted in the ongoing research work to find out a holistic, well planned long-term strategy for sustainable water resources development and management in Raipur city.

Topics to be covered:

- Introduction, governance, watershed, aquifer and other basic concepts of groundwater.
- Upcoming Challenge in groundwater development and management in Raipur City.
- Application of Geophysical methods in groundwater development and management
- Groundwater modelling in groundwater development and management.
- Lab exercise on groundwater Quality.
- Field Training and Demonstration of Electrical Resistivity Techniques.

Targeted Participants:

Eligibility Criteria to Attend: This Program is open to College/School Students. Selection shall be on first come first serve basis, with preference to students whose research interests align with the theme of the ongoing resrach work. Total number of seats is limited to maximum 25 Students.

List of participants will be displayed on the institute website or informed through email.

The applicants have to submit the registration form in the attached format at the link:

<https://forms.gle/Jazij3s3RWeTz2uh6>

There is no registration fee.

Registration is by first come first serve basis.