

**RAJIV GANDHI NATIONAL GROUND WATER TRAINING AND RESEARCH INSTITUTE**  
**CENTRAL GROUND WATER BOARD**  
**MINISTRY OF JAL SHAKTI**  
**DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION**



**About Us**

Rajiv Gandhi National Ground Water Training & Research Institute (RGNGWTRI) was established during the IXth Five Year Plan as a Training Institute of Central Ground Water Board (CGWB), Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation, Govt. of India (erstwhile Ministry of Water Resources), and is running continuously since 1997. RGNGWTRI is envisaged to function as a 'Centre of Excellence' with the national role of conducting specialised training courses for all ground water professionals including those of CGWB, other Central and State Government Organizations, Public Sector Undertakings, Non-Governmental Organizations and the Academics. It has also an objective to promote research activities in emerging areas of ground water. It imparts training to ground water sub-professionals working in grass-root level and strives to bring public awareness

**Location**

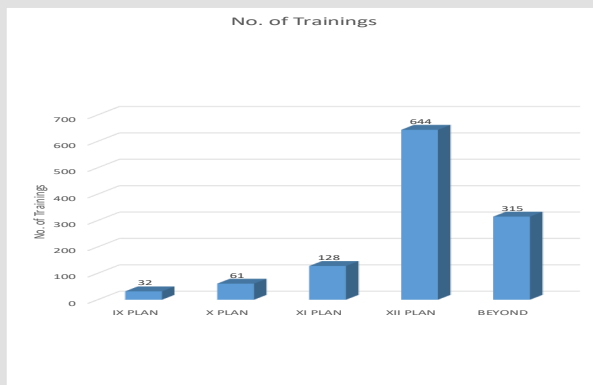
Rajiv Gandhi National Ground Water Training & Research Institute is located near village Tuta in Atal Nagar, Naya Raipur, Capital of Chhattisgarh State. Raipur has a tropical wet and dry climate with temperature remaining moderate throughout the year, except from March to June. The city receives about 1,300 millimetres of rainfall mostly in the monsoon season from late June to early October. Winter lasts from November to January and is generally mild. It is situated on the Howrah-Nagpur-Mumbai line of the Indian Railways and is well connected with other major cities/parts of India through air and rail.

**Mandate**

The institute has a mandate to conduct training courses for ground water professionals at the induction, mid-career, and senior management levels. The training courses are designed to cover all relevant aspects of investigations, exploration, assessment, development and management of ground water resources; limited number of courses are also imparted on various administrative matters and general management including personality development. It also conducts specialised training courses for professionals from abroad as and when desired by a foreign country. Ground water resources are being increasingly and indiscriminately exploited on large scale throughout the country. This has led to sharp decline in ground water levels and deterioration in water quality in major parts of India. Realizing the need to provide training to ground water professionals, sub-professionals and other stakeholders, the Institute has embarked upon a three-tier system of training programme. The objective of these trainings is to develop a pool of trained resource persons who would be working towards sustainability of ground water resources across the country. The trained sub-professionals shall assist in field-level data generation for better water management.

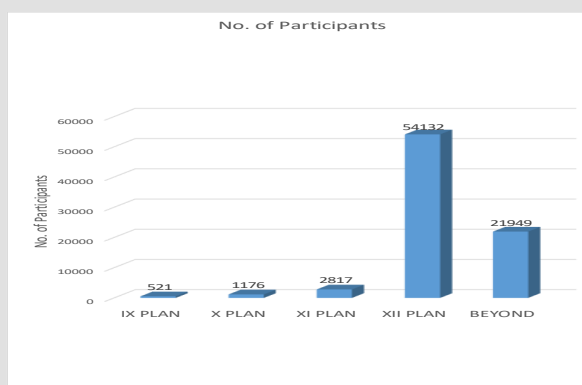
**Trainings under XII Plan**

Since the XII Plan, RGNGWTRI under Human Resources Development and Capacity Building Scheme of the Ministry has been implementing a three-tiered training programme keeping in view the requirements of the "National Project on Aquifer Management (NAQUIM)". In Tier- I (National Level) Training programme, training is provided in core ground water areas at the main campus of RGNGWTRI, Raipur to the Officers of CGWB, other Central and State Government Organizations, Public Sector Undertakings, Non-Governmental Organizations as well as the Faculty Members and Students of the Universities. As a large pool of trained human resource is needed to work on sustainability of ground water resources, who cannot be trained at Raipur, the Institute has been organizing Tier-II (State Level) trainings to the ground water professionals and sub-professionals through CGWB Regional Offices. In order to train grass-root level stake-holders on basic skills of ground water data collection and assistance in field studies, as well to bring awareness on various water issues in the general public and the farmers, Tier- III (Block Level) trainings are being organized on regular basis by the Institute through CGWB Regional and State Unit Offices.



No. of Training Courses in various 5-Year Plans.

Total No. of Training Courses till Jan'20 = 1180



No. of Participants in various 5-Year Plans

Total No. of Participants till Jan'20 = 80587

### Details of the Trainings Conducted by RGNGWTRI (April 2012— January 2020)

Year	Tier-I Trainings (National Level)		Tier-II Trainings (State Level)		Tier-III Trainings (Block Level)		Total Trainings	
	Trainings	Participants	Trainings	Participants	Trainings	Participants	Trainings	Participants
2012-13	32	565	36	1160	100	15640	168	17365
2013-14	32	486	36	1112	97	12686	165	14284
2014-15	33	581	50	1611	35	4930	118	7122
2015-16	34	690	25	825	46	7437	105	8952
2016-17	38	798	16	507	34	5104	88	6409
2017-18	47	883	18	562	53	7282	118	8727
2018-19	44	776	20	579	48	6336	112	7691
2019-20 (up to Jan 2020)	41	811	13	438	31	4282	85	5531
<b>Total</b>	<b>301</b>	<b>5590</b>	<b>214</b>	<b>6794</b>	<b>444</b>	<b>63697</b>	<b>959</b>	<b>76081</b>

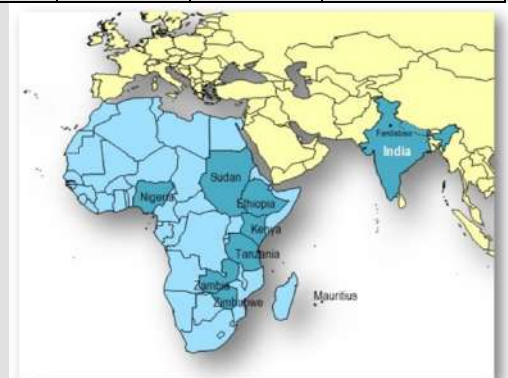
Number of Trainings/ Participants	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20 (up to Jan 2020)
<b>Total No. of trainings conducted</b>	32	32	33	34	38	47	44	41
<b>Male Participants</b>	536	434	497	611	632	686	568	626
<b>Female Participants</b>	29	52	84	79	166	197	208	185
<b>Total Participants</b>	565	486	581	690	798	883	776	811

# RAJIV GANDHI NATIONAL GROUND WATER TRAINING & RESEARCH INSTITUTE

## Overview of Tier-II (State) and Tier-III (Block) Level Courses

Number of Trainings/ Participants	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20 (up to Jan 2020)
<b>Total No. of trainings conducted</b>	136	133	85	71	50	71	68	44
<b>Male Participants</b>	13097	10205	5439	5547	4298	5641	4841	3277
<b>Female Participants</b>	3703	3593	1102	2715	1313	2203	2074	1444
<b>Total Participants</b>	16800	13798	6541	8262	5611	7844	6915	4721

- In 2006, a Training Course on “Ground Water Management and Modelling” was organised for ground water professionals from the Republic of Yemen.
- In 2011, a Training Course on “Ground Water Management and Modelling” (03-17 March 2011) was conducted for the ground water professionals from eight different African countries (Nigeria, Sudan, Kenya, Ethiopia, Tanzania, Zimbabwe, Zambia and Mauritius).
- In 2016, a Training Course on “Ground Water Technology and Management” (November 13-23, 2016) was conducted for Ground Water Professionals of Government of Nepal.



## Training Course for Foreign Nationals



## Training Snaps



# RAJIV GANDHI NATIONAL GROUND WATER TRAINING & RESEARCH INSTITUTE

## About Faculty

Highly qualified, trained, well experienced and having specialization in various fields of ground water such as hydrogeology, geophysics, hydrology, hydrogeochemistry and engineering etc. are the faculty members at RGNGWTRI, Raipur. It has a sanctioned strength of 37 persons including 12 core faculty members (Group A Officers). Guest Faculty are also invited from the Regional Offices of Central Ground Water Board and its Central Head Quarters. Apart from them, highly specialized subject experts are also invited as guest faculty from reputed Organisations.

## R & D

RGNGWTRI takes up R & D studies in emerging areas of ground water as part of its mandate either as in-house or collaborative mode with various National-level organizations. It has so far completed two research projects, one collaborative project with the Physical Research Laboratory, Ahmedabad and another in-house project. It also allows dissertation research to be taken up by M.Sc and M.Tech students under the guidance of its faculty members.

## Clientele

RGNGWTRI imparts international and national trainings to all levels of ground water professionals and sub-professionals from different sectors such as Central and State Governments, Public sector Undertakings, Academic Institutes, NGOs, PRIs etc. However some are given below:

- Government of Nepal, Republic of Yemen, Nigeria, Sudan, Kenya, Ethiopia, Tanzania, Zimbabwe, Zambia and Mauritius.
- Central Govt. /Public Sector undertakings such as Geological Survey of India, Central Mine Planning and Design Institute, CWPRS, National Environmental Engineering Research Institute, Indian Council of Agricultural Research-Directorate of Water Management, Rites Ltd., South Eastern Coal Field Limited etc.
- State Govt. Departments such as Ground Water Surveys & Development / Agriculture/ Soil conservation/ Public Health Engineering/ Water Resources/ Lift Irrigation/ Geology & Mines/ Municipality/ Watershed Mission/ Water Supply & Sanitation / Environmental Board etc.
- Academic/Research Institutions such as Indian School of Mines-Dhanbad, NIT-Raipur, Annamalai University, Central University of Karnataka, Central University of Jharkhand, Indira Gandhi Krishi Vidyapeeth, Osmania University, Pt. Ravi Shankar Shukla University, Govt. Nagarjuna Post Graduate College of Science, Chhattisgarh Agricultural Engineering College, Chhattisgarh Agricultural Training Academy, ITM University, Kalinga University, Kakatiya University, Pondicherry University, CWRDM, RCDC, Remote Sensing Application Centre etc.

## Way Forward

- To be an International Centre of Excellence in Training, Research and Development in the Ground Water sector.
- Long Term Research Program through Collaborative Approach and Technology Transfer.
- Basic Ground Water Research.
  - ◆ Mechanism of aquifer contamination and prevention of pollution to groundwater.
  - ◆ Mechanism for restoration of watershed ecosystems.
  - ◆ Applied Research on Impact of Climate Change on Ground Water, Ground Water-Surface Water interrelation, Ground Water Management, Use of GIS & Remote Sensing , Use of Advanced Geophysical Techniques, Mathematical /Simulation Modeling, Conjunctive Management of Ground Water and Surface Water, Managed Aquifer Recharge, Harnessing of Springs in the Hilly Tracts, Use of Non-Conventional Energy Sources, Understanding Trans-Boundary Aquifers, etc.
- Collaborative Research Projects with National and International Organizations.
- Faculty Development Programmes.
  - ◆ Exposure to International Practices to Indian Experts through Fellowships, Study Tours and attending Conferences.
- Creating Outreach Programmes through distance and e-learning programs.