

**Rajiv Gandhi National Ground Water Training and Research Institute, Raipur**

**Brochure for the NHP Training on**

**“BASICS OF GROUND WATER”**

**Under**

**National Hydrology Project (NHP)**

<b>1</b>	<b>Training name</b>	Basics of Ground Water
<b>2</b>	<b>Period</b>	17.02.2020 – 21.02.2020 (One week)
<b>3</b>	<b>Course Director</b>	Shri. T. B. N. Singh, Scientist-D (Ph. <b>94310 71535</b> )
<b>4</b>	<b>Target Group</b>	Officers of Participating Departments in NHP
<b>5</b>	<b>Objectives of the training</b>	<p>On Completion of the Course, Trainees will be able to</p> <ul style="list-style-type: none"><li>➤ Realise the ground water challenges in the 21<sup>st</sup> Century.</li><li>➤ Work on various components of Hydrogeological Cycle.</li><li>➤ Describe the fundamentals of hydrogeology and various aquifer properties.</li><li>➤ Design the GW Monitoring Network.</li><li>➤ Estimate the Ground Water Resources.</li><li>➤ Conduct GW Prospecting through various Geophysical Methods.</li><li>➤ Carry out drilling activities with different techniques and conduct Pumping tests.</li><li>➤ Work on the GW Quality.</li></ul>
<b>6</b>	<b>Broad Course Content</b>	<ul style="list-style-type: none"><li>➤ Challenges of Ground water Scientists in the 21<sup>st</sup> Century</li><li>➤ Hydrogeological Cycle and its Components</li><li>➤ Geomorphic and Geological Controls of Ground Water</li><li>➤ Fundamentals of Hydrogeology and Aquifer Properties</li><li>➤ Objectives and Design of Ground Water Monitoring Network</li><li>➤ Ground Water Resource Estimation</li><li>➤ Ground Water Prospecting by Geophysical Methods</li><li>➤ Ground Water Drilling Techniques</li><li>➤ Pumping Test Analysis</li><li>➤ Chemical Quality of Ground Water</li></ul>