Training on Sustainability of Ground Water Sources

3 days Training Programme

Target Group from Implementing Agency: AE/EE level officers from PHED/DWS, Rural Development, Panchayati Raj, Agriculture.

2 officers from each district

25 – 30 officers in one batch

Objective of the Training

1. **Collect, Visualize and analyze geo-tagged information**
2. **Able to carry out Risk Assessment of Villages from Abiral Dhara point of view**
3. **Plan the measures to be taken for Source Sustainability**

Role of CGWB: Providing Training Module and Resource Persons

Training Schedule

Day1		
Time	Title	Broad Contents
Lecture 1(10.30-11.45 hrs)	Sustainability of Ground Water Sources- An Introduction	(1) Familiarization with the SOP on Source Sustainability (2) Simple explanation of technical terms like Aquifer and Aquifer Types, Run off coefficient, Discharge, Piezometer, Depth to Water level and Piezometric surface, Units and conversions etc
11.45 – 12.00 hrs Tea Break		
Lecture 2 (12 .00-13.15 hrs)	Risk Assessment	Collection of basic information of villages including geotagging Assessment of Demand and Supply Assessment of monsoon runoff Risk assessment of villages Hands On
13.15-14.30 hrs Lunch		
Lecture 3 (14.30-15.30Hrs)	NAQUIM	Reading Aquifer Maps, Sections and Management Plan
15.30 – 16.30 Hrs Tea Break		
Lecture 4 (16.30-17.30 Hrs)	Drinking Water Source Sustainability Measures	Details and design of Artificial Recharge Structures and rain water harvesting; Selection of sites for AR/WCS Maintenance of structures

Day 2		
	Field Visit	
Day 3		
Lecture 5 (10.30-11.15Hrs)	Ground Water Quality	Major constituents of Drinking water Standards Source Protection measures Alternate sources
Lecture 6 (11.15 – 11.45Hrs)	Monitoring Mechanism	Different monitoring mechanism Impact Assessment
11.45 – 13.00 Hrs	Hands on Session	Demarcation of watershed on a toposheet Selection of sites for AR structures in a sample watershed
13.00 – 14.00 Hrs Lunch		
14.00 – 15.30 hrs	Hands on Session	An introduction to geospatial data analysis Plotting and analysis of spatial data using google earth (i) Import/ plot field data directly to Google Earth by using a free App (ii) Import the boundary file (.shp) to google earth (iii) Compose a map on google earth and save it as an image (iv) Analyze and document the major inferences from the map
15.30 – 15.45 Hrs Tea Break		
15.45 – 16.30 Hrs	Interactive Session	All Faculties
16.30 – 17.00 Hrs	Valedictory Session	