



Bhujal Manthan-2

on

Aquifer Mapping and Ground Water Management

29th November, 2016
Vigyan Bhawan, New Delhi

Organised by
Central Ground Water Board
Ministry of Water Resources, RD & GR
Government of India

PREAMBLE

Central Ground Water Board (CGWB), an apex organisation at national level is working in the field of monitoring, assessment, management, development, quality and protection of ground water resources in the country.

Ground water plays an important role in Indian economy and ensuring food security of the country. The beginning of Green Revolution during the 1970s brought in a significant increase in ground water extraction which has continued ever since, with consequent manifestations of adverse environmental impact in the form of declining water levels and deterioration in ground water quality.

*Central Ground Water Board under the Information, Education & Communication (IEC) programme of Ministry of Water Resources, Govt of India has taken this initiative to organise a **one day Bhujal Manthan-2** on "**Aquifer Mapping and Ground Water Management**"*

OBJECTIVE

The main objective of the programme is to emphasize the need of interactions amongst various stakeholders engaged in groundwater resource development and management for the sustainable development of groundwater resources of the country through Aquifer Management. The one-day interaction would include brain storming on various issues and techniques of aquifer mapping, change in ground water use pattern, emerging issues related to governance of groundwater and convergence of various schemes of Govt. of India to ensure most efficient use of available ground water resources. Five sub-themes have been identified for Bhujal Manthan –2.

SUB-THEMES

1. Aquifer Mapping: A National Perspective
National Aquifer Management (NAQUIM) Programme of the Central Ground Water Board., is the largest exercise of its kind in the world, being taken up in the country focussing on the priority states where ground water resource is under stress. It is an endeavour to delineate the aquifers, their characterization, resource availability, quality and recharge possibility in aquifer specific environment. Management plans are being framed up with supply and demand side interventions for sustainable management of the precious natural resource. This theme intends to provide a platform to share the important achievements of the NAQUIM so far and also to explore further scope to make it more effective and meaningful.

2. Sustainable Management of Ground Water in Stressed Aquifers
Indiscriminate extraction of ground water, without due regard to the replenishment capabilities of aquifers and environmental implications have put a tremendous stress on the aquifers in several parts of the country. The stress is evident both volumetrically (16% of the blocks in India are Over Exploited) as well as quality wise (large swath of the country has polluted ground water in respect of As, F, Salinity Nitrate etc). Sustainable management of ground water remains a key concern as it is central to the lives and livelihoods of millions in the country. The deliberations under this theme are expected to address the entire gamut of issues related to over-exploitation, quality deterioration and sustainable management of our precious ground water resources.

3. Ground Water Management: Community Involvement and Convergence
Solutions to the highly complex nature of ground water challenges in our country demand concerted efforts from all the stakeholders. Involvement of the grass root level stakeholders, effective ground water departments in the state and convergence of various schemes

such as MGNREGA, PMKSY etc. are imperative for the success of the aquifer management initiatives being taken up by CGWB under the NAQUIM Programme. The deliberations on these issues are expected to result in a road map for facilitating community involvement and convergence of various schemes in activities related to sustainable management of ground water resources.

4. Advance Science and Technology in Aquifer Mapping.

Recent advances in technologies related to exploration, development, monitoring and management of ground water resources have a major role in improving the understanding of complex issues related to sustainable management of ground water and the efficacy of management interventions proposed. This theme is aimed at showcasing such technologies in the fields of remote sensing, geophysical exploration, application of isotopes, water well drilling, Geographic Information Systems (GIS) and ground water modelling etc and improving their efficacy in the context of ground water management.

5. Aquifers in Arid area and palaeochannels

Arid areas, covering about 30 m. ha, mainly in the States of Rajasthan, Gujarat, Haryana and Punjab suffer from acute water crisis. The area has limited surface water resources, increased dependence on limited fresh ground water and its consequent depletion, soil erosion and desertification, land degradation and low productivity etc. Palaeochannels of old rivers traversing the arid areas have been found to be good repositories of ground water in many places and offers a solution to the perennial water scarcity of these areas, being potential areas for ground water recharge. Various issues related to ground water management in arid areas and for sustainable development of ground water from palaeochannels are expected to be deliberated in this session.

PROGRAMME

The Bhujal Manthan-2 will be held on 29th of November, 2016. The Bhujal Manthan will comprise Registration, inauguration, technical sessions and Valedictory session.

Selected scientific papers will be presented in the technical sessions of the Bhujal Manthan-2.

Organising Secretary

Dr E Sampath Kumar,
Member Secretary
Central Ground Water Authority

Organising Committee

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Registration Form

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on
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and **Ground Water Management**

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1. Name _____

2. Profession/Designation _____

3. Affiliation (Department/ Organisation /
Institute) _____

4. Mailing Details _____