

12th National Symposium on "Hydrology"
with focal theme on



Groundwater Governance: Ownership of Groundwater and its Pricing

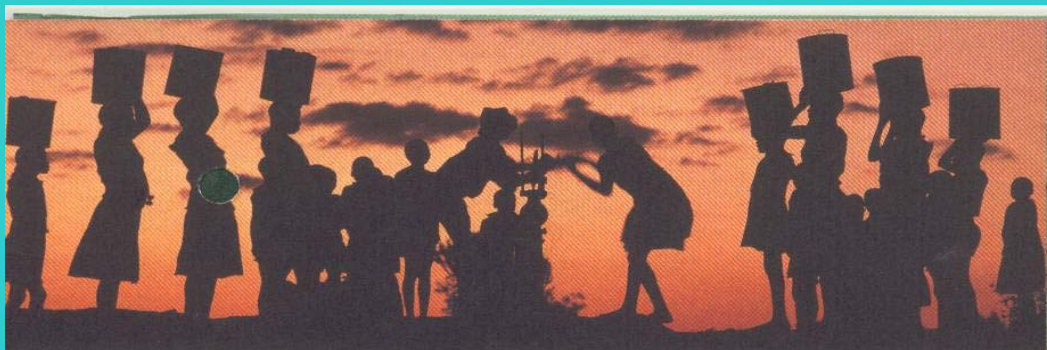
November 14-15, 2006
Hotel InterContinental Eros, New Delhi



Organized by

Central Ground Water Board
Faridabad

National Institute of Hydrology
Roorkee



Under aegis of the



INDIAN NATIONAL COMMITTEE ON HYDROLOGY

SPONSORS

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INVITATION

Exponential growth in the use of groundwater, primarily for irrigation, during the last three decades has contributed significantly to agriculture and economic development of the Country. However, haphazard development of groundwater in north, west and southern India, has led to overexploitation and deterioration in its quality. The issues of groundwater management and its governance have come to forefront. However, these issues are not supported by legal instruments, institutional infrastructures and incentives. Unless appropriate groundwater management policy and control strategies supported by suitable regulations and legislation are brought into implementation, groundwater scarcity will continue to rise with additions of new complexities.

The issues of groundwater governance, its ownership and incentives including pricing need a national debate to arrive at a consensus among stakeholders, planners, managers and environmentalists. Pursuant to this, Indian National committee on Hydrology (INCOH), a constituent body of Ministry of Water Resources, is sponsoring the 12th National Symposium on Hydrology with focal theme on **“Groundwater Governance: Ownership of Groundwater and its Pricing”**. The Symposium is jointly organized by the National Institute of Hydrology, Roorkee and the Central Ground Water Board, Faridabad.

To deliberate on the focal issue, the themes of various technical sessions have been designed as follows:

Technical Session I	: Groundwater Management: Emerging Challenges
Technical Session II	: Groundwater Governance: Institutional and Legal Framework,
Technical Session III	: Groundwater Ownership and Water Rights-Legal Aspects
Technical Session IV	: Sectoral Allocation of Groundwater and its Pricing.
Technical Session V	: Stakeholders Participation in Groundwater Governance.
Plenary Session	: Groundwater Governance: Issues and Perspectives.

Scientific papers have been invited from eminent academicians and State Ground Water Departments. An overwhelming response has also been received in the form of volunteered papers. In view of time constraints and to know the views of the State Governments and stakeholders the number of papers have been restricted for effective deliberations.

We have the pleasure to invite you to participate in the Symposium. We are confident that with your valuable proactive input and participation in the deliberations, the objectives of the Symposium would be accomplished.

We look forward to your benign presence in the Symposium.

(Dr. K. D. Sharma)
Director, NIH & Symposium Chair

(Dr. Saleem Romani)
Chairman, CGWB & Symposium Chair

SYMPOSIUM VENUE

The venue of the Symposium is the Hotel “**InterContinental Eros**” located in Nehru Place, New Delhi. The hotel houses excellent conferencing facilities along with eco-friendly and noise free locality ideal for scientific activities. It is around 10 kms from domestic Airport and about 6 km from New Delhi Railway station. A location map of the hotel is given below.



Location Map of the InterContinental Hotel

The address, and contact details of the hotel are as follows:

Hotel InterContinental Eros
 Nehru Place
 New Delhi – 110 009
 Tel : (011) – 4122 3344
 Fax : (011) 2622 4288

GENERAL INFORMATION

VENUE	Hotel InterContinental, Nehru Place, New Delhi
REGISTRATION FEE	Rs. 1500 per delegate. The demand draft to be drawn in favour of “ NIH-NSH ” payable at Roorkee.
ORGANIZERS	NATIONAL INSTITUTE OF HYDROLOGY, ROORKEE, <i>and</i> CENTRAL GROUND WATER BOARD, FARIDABAD.
CONTACTS	<p>Dr. N. C. Ghosh Scientist – F & Organizing Secretary National Institute of Hydrology, Roorkee Email : ncg@nih.ernet.in Tel : (01332) – 272906-09 (4 lines) Extn. 219 (O) (01332) – 273362 (R)</p> <p><i>Or</i></p> <p>Mr. Y. B. Kaushik Scientist – D & Organizing Secretary Central Ground Water Board NH-IV, Bhujal Bhawan, Faridabad – 121 001 Email : tschmn-cgwb@nic.in Tel : (0129) 241 5024</p>

STEERING COMMITTEE

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3. Director General, India Meteorological Department, New Delhi.
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26. Shri Anupam Mishra, Director, Environmental Cell, Gandhi Peace Foundation, New Delhi
27. Dr. Saleem Romani, Chairman, Central Ground Water Board, New Delhi Co- Convener
28. Dr. K. D. Sharma, Director, National Institute of Hydrology, Roorkee Co- Convener

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7.	Prof. Subash Chander, Ex. Professor, IIT Delhi, New Delhi	
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15.	Prof. C. S. P. Ojha, Deptt. of Civil Engr., Indian Institute Technology, Roorkee	
16.	Prof. Bithin Dutta, Deptt. of Civil Engr, Indian Institute of Technology, Kanpur	
17.	Dr. S.K. Gupta, Scientist-G, Physical Research Laboratory, Ahmedabad	
18.	Dr. Santosh Kumar Sharma, Former Member, Central Ground Water Board, New Delhi.	
19.	Dr. R. C. Trivedi, Addl. Director, Central Pollution Control Board, Delhi	
20.	Dr. P.S. Dutta, Principal Scientist, Indian Agricultural Research Institute, New Delhi	
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22.	Dr. N.C. Ghosh, Scientist-F, National Institute of Hydrology Roorkee	
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26.	Dr. M. Shekhar, Asstt. Professor, Deptt. of Civil Engr., Indian Institute of Science Bangalore	

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Organizing Chairs:		
1.	Dr. Saleem Romani , Chairman, Central Ground Water Board, Faridabad	
2.	Dr. K.D. Sharma , Director, National Institute of Hydrology, Roorkee	
3.	Shri K. S. Ramasubban, Joint Secretary (Admn.), Ministry of Water Resources, New Delhi	
4.	Shri D. Dutta, CMD, Water and Power Consultancy Services (India) Ltd., New Delhi	
5.	Mrs V. M. Bendre, Director, Central Water and Power Research Station, Pune	
6.	Dr. A. K. Dhawan, Director, Central Soil and Material Research Station, New Delhi	
7.	Shri A K Sinha, Member (SML), Central Ground Water Board, New Delhi	
8.	Shri A. D. Joseph , Member (SAM), Central Ground Water Board, Faridabad	
9.	Sh. B. M. Jha, Member (ED&MM) , Central Ground Water Board, Faridabad	
10.	Prof. B. S. Mathur, Deptt. of Hydrology, Indian Institute of Technology, Roorkee	
11.	Shri Subash Chandra, Member, Delhi Jal Board, New Delhi	
12.	Dr. B. Sengupta, Member Secretary, Central Pollution Control Board, Delhi	
13.	Chief Engineer & Member Secretary, Upper Yamuna Board, New Delhi	
14.	Chief Engineer (Hydrology), C W C, New Delhi	
15.	Dr. A. K. Bhar, Scientist 'F' & Head, Groundwater Hydrology Div., NIH Roorkee	
16.	Dr. V. C. Goyal, Sc. 'F'/Director, Science & Society Division, DST, New Delhi	
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19.	Representative, Indian Council of Agricultural Research, New Delhi	
20.	Representative, Council of Scientific & Industrial Research (CSIR), New Delhi	
21.	Representative, Oil & Natural Gas Commission (ONGC), New Delhi	

Organizing Secretaries:

22. **Dr. N.C. Ghosh**, Scientist-F, National Institute of Hydrology, Roorkee
 23. **Mr. Y. B. Kaushik**, Scientist-D, Central Ground Water Board, Faridabad

PROGRAMME**REGISTRATION**

... Tuesday, 14-11-2006 (1000 to 1130 hours)

INAUGURAL FUNCTION

... Tuesday, 14-11-2006 (1145 to 1305 hours)

Chief Guest	:	<i>Shri. Montek Singh Ahluwalia</i> Deputy Chairman, Planning Commission Government of India.
Presiding	:	<i>Prof. Saif-ud-Din Soz</i> Union Minister for Water Resources Government of India.

TECHNICAL SESSION – I

.... Tuesday, 14-11-2006 (1400 –1545 hours)

Theme : Groundwater Management – Emerging Challenges**Theme Paper : Dr. Saleem Romani**, Chairman, Central Ground Water Board.**Paper title : *Groundwater management – Emerging challenges***Technical Papers:

1. Groundwater resources of India- towards a framework for practical management and effective administration by *Stephen Foster and Hector Garduno*, World Bank, GW-MATE.
2. Groundwater management in the State of Punjab by *M P Kaushal and A K Jain*, Deptt. of Soil and Water Engineering, PAU Ludhiana.
3. Challenges in groundwater management in hard rock terrain- a case study from Tamil Nadu, India by *P.Nanandkumaran*, CGWB, Chennai.
4. Optimal groundwater pumping from Palla well fields to augment drinking water supply to Delhi by *S V N Rao, Sudhir Kumar (NIH-Roorkee), Shashank Shekhar and S K Sinha (CGWB, New Delhi)*.
5. Origin and recharge of groundwater in western Himalayan region, India: An isotopic approach by *S.P. Rai, Bhishm Kumar (NIH, Roorkee), Noble Jacob, S.V. Navada (BARC, Mumbai), S.K. Verma, Pankaj Garg and Y.S. Rawat (NIH, Roorkee)*

6. Emerging challenges in ground water resource management before a newly created State – with special reference to Chhattisgarh *by Arunangshu Mukherjee and Dinesh Tewari, CGWB, Chhattisgarh Region, Raipur*
7. Design of sustainable water supply for HINDALCO - Muri works in Subarnarekha riverbed aquifer, Ranchi district, Jharkhand *by VVS Gurunadha Rao, B A Prakash, K V J R Krupanidhi, K Mahesh Kumar, M Ramesh, N Pavan Kumar and K Krishna Kumar, NGRI, Hyderabad*
8. Implication of submersible pumps in declining water table areas of trans Indo- Gangetic plains *by M.J. Kaledhonkar, S.K. Gupta, C.K. Saxena and D.P. Sharma, Central Soil Salinity Research Institute, Karnal*
9. Artificial groundwater recharge planning in northern Uttar Pradesh using GIS and Remote sensing *by Moumita Roy, H.C. Sharma and Ambrish Kumar, G.B.Pant University of Agriculture & Technology, Pantnagar, and CSWCRTI Research Centre, Datia*
10. Groundwater scenario under changing climate: Rajasthan *by R.K.Goyal, Central Arid Zone Research Institute, Jodhpur*
11. Groundwater perspectives of small islands – Lakshadweep islands – India *by J. Sundaresan, National Institute of Science Communication and Information Resources, New Delhi*
12. Use of iron rich groundwater for irrigation in Sonitpur district of Assam *by U. M. Hazarika , and S. C. Patra, NERIWALM, Assam*
13. Modeling of a scavenger well system *by K.Saravanan, Deepak Kashyap (IIT Roorkee) and Anupma Sharma (NIH, Roorkee)*
14. Groundwater development in hilly terrain: Case study in and around Kohima town, State capital of Nagaland *by E. Kikon & Katiwaba Ao, Directorate of Geology & Mining, Dimapur*
15. Affectivity and extent of Haveli areas – A system of water prosperity *by R. K. Nema, M. K. Awasthi, Y. K. Tiwari, and R. N. Shrivastava, College of Agricultural Engineering, JNKVV, Jabalpur*
16. Groundwater management options – a case study of western Yamuna canal command, Haryana *by K.J. Anandhakumar (CGWB, New Delhi), Vijay Kumar (NIH, Roorkee), S.K.Maanjhu (Govt. Dungar College, Bikaner), P. Das (CGWB)*
17. Hurdles in framing groundwater management strategies in A&N in the aftermath of TSUNAMI *by Amlanjyoti Kar and C.P.Gawri, CGWB, Kolkata.*

TECHNICAL SESSION – II Tuesday, 14-11-2006 (1600- 1830 hours)

Theme : Groundwater Governance : Institutional and Legal Framework

1. Groundwater governance with reference to effective implementation of Apwalta 2002 & 2004 *by Ramkishan Desai, Joint Director, Ground Water Department, Andhra Pradesh*
2. Groundwater governance- Ownership & its pricing *by Vidhyalingam, Jt. Chief Engineer, Water Resource Organization, Tamil Nadu*
3. A discussion on Kerala groundwater act in relation to regional hydrogeological conditions of the State *by J.P. Kukillaya, Director & Member Secretary, Ground Water Department, Kerala.*

4. Framework and implementation of West Bengal water resources (management, control, and regulation) Act, 2005 by *P.K. Roy Choudhury, Director, State Ground Water Investigation Directorate, West Bengal.*
5. Framework and implementation of Goa ground water regulation act, 2002 by *P.S. Nadkarni, Chief Engineer, Water Resources Department, Goa*
6. Groundwater governance: Legal and institutional framework in the State of Maharashtra by *S.P. Bagade, Director, Ground Water Survey and Development Agency, Pune, Maharashtra*
7. Groundwater Governance in Over exploited/ Dark ad Saline areas of Gujarat State by *V.M. Yagnik, Member Secretary, GGWA and Managing Director, GWRDC, Gujarat, A.D. Gohil, SE, GWMI Circle, GWRDC, Gujarat and HKR Mehta, Geophysicst, GWMI Circle, GWRDC, Gujarat*
8. Ground Water Management in Haryana and Emerging Issues by *R.K. Khullar, IAS, Director Agriculture, Haryana*
9. Groundwater governance- Issues & perspectives regarding Model Bill application in Punjab State by *Kuldeep Singh Takshi, Director, Water Resource & Environment Directorate, Punjab*
10. Groundwater resource assessment and management strategies with special reference to Madhya Pradesh by *N.R. Khare, Chief Engineer, Bodhi, State Ground Water Survey Department Madhya Pradesh*
11. Paper on draft legislation on the lines of Model Bill to regulate and control groundwater development by *M.M. Ansari, Director, Ground Water Department, Uttar Pradesh*
12. Groundwater resource management in the State of Rajasthan by *V.N. Mathur, Chief Engineer, Rajasthan State Ground Water Department, Rajasthan*
13. Groundwater governance: Institutional and legal framework by *Arun Mathur, CEO, DJB, NCT, Delhi*
14. Groundwater governance in Kavaratty island of Lakshadweep, India by *K. Md .Najeeb and N.Vinayachandran, CGWB, Bangalore.*
15. Groundwater governance: The Indian scenario by *K.D. Sharma, Director, NIH, Roorkee*
16. Institutional framework of managing groundwater in a water stressed region by *Dipankar Bose, National Institute of Technical Teachers' Training and Research, Kolkata*
17. Groundwater governance: Few pertinent issues relating to availability and possible threat by *N. C. Ghosh, and Anupma Sharma, NIH, Roorkee*
18. Overexploitation of aquifers: Need for proper planning, management tactics, awareness and legislation... examples from West Bengal and Orissa by *Amlanyjoti Kar and C.P.Gawri, CGWB, Kolkata*
19. Ground water governance: issues and perspectives by *B. Ravichandar, National Water Development Agency, Bhubaneswar*

TECHNICAL SESSION – III Wednesday,15-11-2006 (930–1100 hours)**Theme : Groundwater Ownership & Water Rights – Legal Aspects****Theme Paper: Dr. M. S. Rathore**, Institute of Development Studies, Jaipur.**Paper title : *Water Rights and other Alternative to Groundwater Management in India***Technical Papers :

1. Contribution of Remote Sensing and Geographical Information System to groundwater ownership laws by *O. P. Dubey, Shiva Dutta, and M. S. Verma, Irrigation Research Institute, Roorkee.*
2. Ownership of groundwater and its pricing : Rajasthan perspective by *R.C. Purohit, and Virendra Kumar, MPUAT, Udaipur.*
3. Control and regulation of groundwater through pricing of water in the Kerala scenario by *Ajithkumar P. N., and Sudheer A. S., Groundwater Department, Kerala..*
4. Emerging problems in ground water regulation and governance and the need for a ground water database, a case study from Orissa State by *N.C. Nayak, R. Nayak, S. Mohapatra, CGWB, Bhubaneshwar*
5. Ground water Ownership and Legal Aspects by *Jivesh A. Tambe, CGWB, Nagpur*

TECHNICAL SESSION – IV Wednesday,15-11-2006 (1115–1300 hours)**Theme : Sectoral Allocation of Groundwater and its Pricing****Key Paper : John Kurien and A. K. Sinha**, NABARD, Mumbai**Paper title : *Groundwater governance issues in irrigation development - A perspective***Technical Papers :

1. Sectoral allocation and pricing of groundwater: A Stakeholder view by *V. V. Damle, Senior Advisor-WM, Confederation of Indian Industries, New Delhi*
2. Sectoral Allocation of Ground water and its pricing by *A.K. Lakina, Chairman, Rural Electrical Corporation, New Delhi*
3. Sectoral allocation of groundwater and its pricing by *Abhiram Seth, Chairman, FICCI, New Delhi.*
4. Negotiating a people based governance institution for Sabarmati basin management: The Gujarat experience by *Srinivas Mudrakartha, VIKSAT, Ahmedabad*
5. Groundwater rights and water pricing structure by *A. K. Rastogi, IIT Bombay, Mumbai*
6. Allocation and pricing policy for groundwater resources by *B. K. Sahu, IIT Bombay, Mumbai*
7. Groundwater pricing in over exploited Torehalla Watershed (4b4b2), Shimoga District Karnataka- A scientific approach by *K. Rajarajan and K.Md.Najeeb, CGWB, Bangalore*
8. Pricing policy and its role in groundwater management – A Karnataka experience by *K. Md. Najeeb, K.R. Sooryanarayana, and A. Manzar, CGWB, Bangalore*

TECHNICAL SESSION – V Wednesday, 15-11-2006 (1400–1515 hours)

Theme : Stakeholders Participation in Groundwater Governance

Key Paper : Srinivas Mudrakartha, Director, VIKSAT, Ahmedabad.

Paper title : *Multi-stakeholder Approach-the New Development Paradigm ?*

Technical Papers :

1. Water Conservation by *Rajendra Singh, Tarun Bharat Sangh, Rajasthan.*
2. Management Aspects of Groundwater Resources-Community participation, Augmentation and Restoration by *M.Thangarajan, Retired Scientist-G, NGRI, Hyderabad*
3. Watershed development approach in groundwater augmentation in Nawapada district of Orissa by *P. K. Naik, G. C. Pati, P. K. Mohapatra, and A. Choudhury, CGWB, SER, Bhubaneswar*
4. Stakeholders participation in groundwater governance in Kerala by *E. Shaji and G. Sreenath, CGWB, Kerala*
5. Groundwater Marketing - Need For Governance by *S.C.Puranik, Karnataka University, Dharwad*

PLENARY SESSION Wednesday, 15-11-2006 (1515-1630 hours)

Theme : Ground Water Governance – Issues & Perspectives

VALEDICTORY FUNCTION ... Wednesday, 15-11-2006 (1700-1750 hours)

ORGANIZERS

CENTRAL GROUND WATER BOARD

Central Ground Water Board is national apex organization with the mandate to “Develop and disseminate technologies for the scientific and sustainable development and management of India’s ground water resources including monitoring, exploration, periodic assessment and augmentation”. Board is a multidisciplinary organization and main activities include; ground water management studies, exploration, nationwide monitoring of ground water regime, assessment and augmentation of ground water resources. The data generated from these investigations provide a scientific base for ground water development and management by users. Besides advising States and other user agencies on planning and management of ground water resource, Board also takes up special studies on artificial recharge, conjunctive use of ground and surface water, water balance, geogenic contamination and R&D studies, etc. Under the Hydrology Project, emphasis is being laid on strengthening of monitoring network, development of hydrogeological information system and standardization of methodologies for data collection and validation. CGWB is also engaged in capacity building and educating professionals and sub professionals of Central, State Govt. Organizations and Public Sector Undertakings on various aspects of ground water development and management techniques. Central Ground Water Authority constituted under Environment (Protection) Act, 1986 is regulating and controlling the development and management of ground water in the over-exploited and critical areas of the country in coordination with State Govt. Authorities for better ground water governance.

NATIONAL INSTITUTE OF HYDROLOGY



National Institute of Hydrology (NIH) is a Registered Society under Ministry of Water Resources, Government of India. It is an autonomous apex research and development Institute catering services in science and technology related to hydrology and water resources, since year 1978. The mandates of the Institute are: (i) to undertake, aid, promote and co-ordinate research in all aspects of Hydrology, making an impact on sustainable water resources development and management in the country, (ii) to co-operate and collaborate with other National, Foreign and International organizations in the field of Hydrology in order to achieve the above objectives, (iii) to act as a repository of knowledge and information, to disseminate the same in the country and to establish and maintain a research and reference library in hydrology, (iv) to act as a center of excellence for transfer of technology, human resource development and institutional development in specialized areas of hydrology, and (v) to conduct user defined, demand-driven research through consultancy in the field of hydrology. NIH is known globally for its excellence in hydrological research and development. For details about NIH, visit: www.nih.ernet.in

INDIAN NATIONAL COMMITTEE ON HYDROLOGY

Indian National Committee on Hydrology (INCOH) – a constituent body of the Ministry of Water Resources, Government of India having members drawn from all over the Country is housed at the NIH. It is responsible for the implementation of IHP of UNESCO in the Country. The INCOH provides: (i) funding R & D projects in hydrology and water resources development in the Country, (ii) financial support to Seminars, Symposia, Conferences, Workshops, Capacity Building, etc. in areas related to hydrology & water resources; and also brings out state-of-art reports on thrust areas in Hydrology.