JALVIGYAN SAMEEKSHA (HYDROLOGY REVIEW)

Theme
Water and Environment



Publication of Indian National Committee on Hydrology (INCOH) (IHP National Committee of India for UNESCO)
National Institute of Hydrology, Roorkee – 247667 (India)

INDIAN NATIONAL COMMITTEE ON HYDROLOGY (INCOH)

(IHP National Committee of India for UNESCO)

Constituted by the Ministry of Water Resources in 1982

INCOH Secretariat

Member Secretary, Indian National Committee on Hydrology (INCOH)

National Institute of Hydrology, Roorkee - 247667, INDIA

Phone: +91 1332 272906 Ext. 299

Fax: +91 1332 272123 E-mail: incoh@nih.ernet.in Web: www.nih.ernet.in

Activities of INCOH

Sponsorship of Research/Applied Projects

INCOH provides sponsorship to research and development projects to fulfil its fo'lowing objectives:

- To conduct studies and research using available technology.
- To develop new technology and methodologies for application to real life problems.
- To develop hydrological instruments indigenously and to evaluate new techniques.
- To develop new software for application in field hydrological problems.
- To give impetus to hydrological education and training.

About 48 research projects from different parts of the country have been sponsored uptil now. The funding for various projects has been provided under the following ten broad areas:

- > Hydrology of surface water (rivers, lakes and reservoirs) including snow and glaciers.
- Remote sensing applications to hydrology and water resources.
- > Hydrological information system and computers in hydrology.
- > Hydrological instrumentation and telemetry.
- > Environmental hydrology
- > Hydrometeorlogical aspects of water resources development and flood forecasting.
- > Ground water, springs, conjunctive use, drainage and water re-use.
- > Drought, water conservation and evaporation control.
- Nuclear applications.
- Education and training in hydrology.

Organisation of National Symposium on Hydrology

INCOH organises at least one national seminar/symposium every year to bring together hydrologists and water resources engineers from various parts of India. Since 1987, INCOH has been organising such National Seminars every year on specific focal themes.

Sponsorship of Seminar/Symposia/Conferences/Short-term Courses

INCOH provides sponsorship to various agencies and organizations for organising national, regional and international events in hydrology.

JALVIGYAN SAMEEKSHA (HYDROLOGY REVIEW)

Theme
Water and Environment

Editors

Anupma Sharma & Archana Sarkar

National Institute of Hydrology, Roorkee



Publication of
Indian National Committee on Hydrology (INCOH)
(IHP National Committee of India for UNESCO)
National Institute of Hydrology, Roorkee - 247667 (India)

INDIAN NATIONAL COMMITTEE ON HYDROLOGY (INCOH) (IHP National Committee of India for UNESCO)

Chairman Mr. R. Jeyaseelan

Chairman, Central Water Commission, New Delhi

Executive Member Dr. K.D. Sharma

Director, National Institute of Hydrology, Roorkee

Member Secretary Dr. Ramakar Jha

Scientist-E1, National Institute of Hydrology, Roorkee

SUB-COMMITTEES OF INCOH

STEERING COMMITTEE

Chairman 1. Member (D&R), Central Water Commission, New Delhi.

Members 2. Director, National Institute of Hydrology, Roorkee.

3. Chairman, Central Ground Water Board, Faridabad4. Chief Engineer (CDO), Central Water Commission, New Delhi.

5. Director (R&D), Ministry of Water Resources, New Delhi.

Secretary 6. Senior Scientist, National Institute of Hydrology, Roorkee.

RESEARCH COMMITTEE (SURFACE WATER)

Chairman 1. Director, National Institute of Hydrology, Roorkee.

Members 2. Director, Centre for Water Resources Studies (Patna University),

Bihar College of Engineering, Patna.

3. Chief Engineer (Dam Design), Irrigation Design Organisation, Roorkee.

4. Director, Hydrology (RS), Central Water Commission, New Delhi.

5. Director (R&D), Ministry of Water Resources, New Delhi.6. Chief Engineer (Surface Water), Irrigation Dept., Bangalore.

7. Representative of DG, IMD, New Delhi.

8. Director, GERI, Baroda, Gujarat.

Secretary 9. Senior Scientist, National Institute of Hydrology, Roorkee.

RESEARCH COMMITTEE (GROUND WATER)

Chairman 1. Dr. S.Romani, Member(SML), Central Ground Water Board, Faridabad.

Members 2. Director (R&D), Ministry of Water Resources, New Delhi.

3. Joint Director, CWPRS, Pune.

4. Prof. B.B.S. Singhal, Emeritus Professor, IIT Roorkee, Roorkee.

5. Director, NGRI, New Delhi.

6. Dr. G.D. Gupta, Advisor, DST, New Delhi.7. Chief Engineer, Ground Water Irrigation Department, Hyderabad.

8. Dr. Ramakar Jha, Sc. E1 & Member Secretary, INCOH, NIH, Roorkee.

Secretary 9. Senior Scientist, National Institute of Hydrology, Roorkee.

JALVIGYAN SAMEEKSHA (HYDROLOGY REVIEW)

Volume 17, Number 1-2, 2002

THEME: WATER AND ENVIRONMENT

in India – An Overview R.P. Samui	1
Drought Mitigation and Farming System Research in India H.P. Singh and K.D. Sharma	11
Environmental Concerns of Water Resources Projects – An Overview R.S. Goel	25
Ground Water Pollution in Urban Areas and its Effect on Ground Water Regime D.K. Chadha and S.R. Tamta	39
Arsenic Contamination of Ground Water in West Bengal (India): Build-Up in Soil-Crop Systems S.K. Sanyal and S.K.T. Nasar	49
Water Resources Development and Environment – Present Scenario and Future Projections R.V. Rao and D.K. Kaushik	65
Water Resources Pollution, Water Quality Management and	83

