Journal of HYDROLOGICAL RESEARCH AND DEVELOPMENT

Theme Ecohydrology



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 277281 E-mail: <u>incoh@nih.ernet.in</u> Web: <u>www.nih.ernet.in</u>

Activities of INCOH

Sponsorship of Research/Applied Projects

INCOH provides sponsorship to research and development projects to fulfil its following 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.

Seventy three research projects from different parts of the country have been sponsored uptil now. The funding for various projects has been provided under the following subject domain:

Meteorology., Surface Water Hydrology, Evaporation Control., Instrumentation., Real Time Systems., Application of GIS and Remote Sensing.

Organisation of National Symposium on Hydrology

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

Journal of HYDROLOGICAL RESEARCH AND DEVELOPMENT

Theme

Ecohydrology

Editor

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 Shri R. C. Jha

Chairman

Central Water Commission, New Delhi

Member Shri R.D. Singh

Director

National Institute of Hydrology, Roorkee

Member Secretary Dr. Rakesh Kumar

Scientist 'F'

National Institute Hydrology, Roorkee

Journal of HYDROLOGICAL RESEARCH AND DEVELOPMENT

Volume 25, 2010

THEME: ECOHYDROLOGY					
	STREET, STREET				
0011771170					
CONTENTS					

Technical Papers

Ecohydrology: The Concept, its Development and Application Brij Gopal	1
Effect of La Niña-El Niño on Climatic Fluctuations over Major Hydro-ecozones across India Ashwini A. Ranade, Nityanand Singh and H.N. Singh	13
Environmental Flow Requirement and its Assessment Manohar Arora and Rakesh Kumar	37
Importance of First Flush in Restoration of Lake Water Quality: A Case Study of Mansagar Lake A. B. Gupta, Tushali Jagwani, Prakash Vijayvargia and Aakanksha Rampuria	53
Environmental Flow Assessment using Various Techniques in a Typical River Basin of India Ramakar Jha	63

