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MESSAGE FROM EDITOR'S DESK

The present issue of IWRS Journal (Vol. 39, No. 2, April, 2019) broadly covers researches pertaining to canal lining, application of ANN in flood forecasting, application of RS&GIS, tribological aspects of hydraulic structures, environmental flows, water security-water bank concept, etc. The first paper deals to study of a lined canal system to provide data base by adopting the various aspects, viz. Economical Feasibility Aspects (EFA), Optimal Design Aspects (ODA), Seepage Control Aspects (SCA), Structural Stability Aspects (SSA), Construction and Management Aspects (CMA) and Failure and Maintenance Aspects (FMA). The second paper aims at to recommend the best hydrologic model amongst linear stochastic models autoregressive moving average (ARMA), autoregressive integrated moving average (ARIMA) and nonlinear models like ANN and WNN for flood forecasting of Vamsadhara river. The WNN model was found to perform better than ANN, ARIMA and ARMA models for flood forecasting in this study. The third article deal with micro-watershed modelling using GIS and Water Evaluation and Planning (WEAP) of Amlasole micro-watershed (West Bengal). The study is very useful for water management and planning at different scales and in different Agro-climatic zones. The fourth paper attempts to investigate the effects of tribological property- Surface roughness, on the bonneted Gates of 990MW Hydropower Generation Project (Beas Satluj Link Project). In the fifth paper, efforts are made to assess the Environmental Flows Requirements (EFRs) for water deficient and highly urbanized & industrialized zone of Vishwamitri River using hydrological methods. The last paper deals with water security for industrial growth in Tamil Nadu based on innovative idea of water bank concept. This paper proposes an institutional mechanism for setting up "Water Banks" to provide water security to the industry.



With the understanding that the journal has been publishing the quality researches showing state-of-the art developments in respective fields, it is hoped that the current issue of IWRS would also be useful to all working in the area of water sector.

(S.K. Mishra)

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WELCOME TO NEW EXECUTIVE VICE PRESIDENT, IWRS (HQ) PROF. M. L. KANSAL, HEAD, DEPT. OF WRD&M, I.I.T., ROORKEE



Dr. Mitthan Lal Kansal, currently working as NEEPCO Chair Professor & Head in the Department of Water Resources Development & Management at Indian Institute of Technology (IIT) Roorkee (India). He is a Civil Engineering graduate with post graduation in Water Resources Engineering. He obtained his Ph.D. from Delhi University (India) and holds the Post Graduate Diploma in Operations Management. Previously, he worked as Associate Professor in the department WRD&M, IIT Roorkee and served at Delhi Technical University, Delhi (erstwhile, Delhi College of Engineering, Delhi), NIT Kurukshetra, IIT Delhi and NIH, Roorkee (India) at various levels. He has published more than 150 research papers and two books. He has got best paper awards from Indian Building Congress, Indian Water Works Association, and received star

performer award from IIT Roorkee. He acted as reviewer for several International Journals and research agencies. He has visited various countries as International Expert and Visiting Professor. Dr. Kansal acted as International expert for RCUWM of UNESCO and IUCN, etc. He is working as Executive Vice President of Indian Water Resources Society and served as expert panel member for All India Council for Technical Education (AICTE), India. He has contributed substantially by providing consultancy services to various national and international agencies of repute. He has worked in various administrative capacities such as Associate Dean of Students Welfare and as Chairman, Co-ordinating Committee of Bhawans at Indian Institute of Technology Roorkee and national expert for several bodies.

Journal Article:

Rao, S.S., 1979. "Flood Control Regulation of Reservoirs", Journal of Indian Water Resources Society, 11(2), 19-26

Chapter in Book or Paper in a Proceedings:

Singhal, S.P. and Kasliwal, R., 1991. Calibration of Conceptual Catchment Models, in Applied Water Resourcing Planning, P.V. Narasimha (Editor). Tata Mc Graw Hill Publishing Co. New Delhi.

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