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JOURNAL OF INDIAN WATER RESOURCES SOCIETY
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MESSAGE FROM EDITOR'S DESK

The present issue of IWRS Journal (Vol. 39, No. 4, Oct. 2019) broadly covers R&D studies pertaining to dam break analysis, application of Remote Sensing (RS) & Geographical Information System (GIS), wastewater management, reservoir operation, rainfall runoff modelling, etc. The first paper presents a hypothetical case study of Baur dam (Uttarakhand) breach analysis using HEC-RAS model. The overtopping failure has caused more severe floods than piping failure in earthen dams, but the difference was meagre. The second paper evaluates the performance of upper Wardha Irrigation Project located in Dist. Amravati, India, using RS and GIS. The performance index may useful for irrigation authorities as a feedback to improve the performance of the irrigation system. In the third paper, the impact of secondary treated sewage has been studied on the growth, productivity, and some physiological parameters of Hordeum vulgare. In this study, germination efficiency, root-shoot ratio, total chlorophyll content and biomass estimation were found to increase with increase in concentration of secondary treated sewage. The fourth paper demonstrates the potential of Harmony Search Algorithm (HSA) to optimize regulation policy that distributes the water stored in the reservoir located in Central India to maximize the crop yield in dry weather season. The fifth paper deals with a GIS-based study of cryosphere, water and LULC pattern in the watershed of Khangri Glacier (Arunachal Pradesh). In the last paper, the effect of wet and dry year data on optimal model parameters of a conceptual rainfall-runoff model has been attempted for Malaprabha river catchment, which is a major tributary of River Krishna, Karnataka. In conclusion, the ARNO Rainfall-Runoff model may be used for the prediction of flows at a catchment scale.

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

Raj Deva Singh

(R.D. Singh)

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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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