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GUIDELINES FOR AUTHORS

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The Indian Water Resources Society (IWRS) is a multi-disciplinary organization dedicated to the advancement of the science and technology of water resources development and management. The IWRS Journal publishes original papers on scientific, engineering and socio-economic aspects that are clear, concise and presented in a style readily understood by an international audience. Before publication, the papers are reviewed by the Editor/reviewers. Detailed instructions for preparing manuscripts are included in the following. A review of previous issues will be helpful in organizing the manuscript.

The text of the paper should be well organized and presented in a logical manner. The appropriate use of sub-headings, especially in long sections, enhances the readability and quality of paper. Repetition of data given in tables and figures should be avoided. The paper should be written so that it will be of interest to persons in the wide variety of disciplines represented by IWRS's membership. Complex sentences and the excessive use of highly technical jargon are prime offenders in detracting the readers. The articles should have well-defined objectives, discussions, applications and conclusions that are easily understood. The papers not complying these guidelines will be returned to the authors for improvement or publication elsewhere.

The acceptance or rejection of a paper is based on appraisal by the reviewers who examine the paper for its originality, relevance, adequacy and conciseness of the presentation. Depending on the results of reviewer, a manuscript may be returned to the authors for revision. If the authors suitably revise the manuscript, it is accepted for publication. If the review comments are extensive, the authors should include a reply to the reviewer, in addition to making changes to the manuscript.

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The title page should also include the name(s) of the author(s); the affiliation and mailing address of each author; the e-mail address, telephone and fax numbers of the corresponding author.

Abstract:

The abstract should be concise, and complete in itself, without reference to the text of the paper. It should state the general problem and objective(s), summarize the results, and state general implications. The abstract should be in single paragraph of not more than 200 words. Five to Six keywords supplied by the author should appear on a line following the abstract.

References:

Cite references to published literature in the text sorted by author(s) and year, for example, Prasad (1994). Avoid using a numbering system. List all references in alphabetical order in the Reference section. Give the complete title of the reference and the source. Please follow the sample styles below.

Books :

Gupta, S.K., 1999. "Engineering Hydrology", Tata Mc Graw-Hill Publishers, New Delhi

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MESSAGE FROM EDITOR'S DESK

The year 2020 began with the fear of COVID-19 pandemic. During his first address, Prime Minister Shri Narendra Modi called for a nationwide 14-hour "Janata Curfew" on 22 March, 2020 followed by 21 days' lockdown limiting the movement of entire country as a preventive measure to Corona pandemic. In an effort to avoid the delay in publication, the editorial board decided to publish the Volume 40, Number 1 & 2, January 2020 & April 2020 after combining the two issues of January 2020 and April 2020 together.



The present issue of IWRS Journal broadly covers R&D studies pertaining to reservoir operation, evaluation of effect of evaporation loss in reservoir, runoff estimation, quality characterization of groundwater, groundwater potential mapping, land use land cover change detection, etc.

The first paper addresses the possibilities to maximize the performance power by minimizing the spill of a mixed pumped storage by operating the power plant efficiently. The paper also derives the operating rules based on the simulation results and historical performance. The second paper evaluates of effect of evaporation loss on the reservoir yield for Urmodi Reservoir system in Krishna Basin in Maharashtra by using Linear Programming (LP) and Genetic Algorithm (GA). In the third paper, Modikuntavagu watershed of Godavari Basin which is located in the Khammam District of Telengana has been taken as case study for the estimation of runoff by Soil Conservation service curve number (SCS-CN) method using Geo-spatial technology. Direct runoff has been calculated based on rainfall, soil type, soil moisture, drainage density, topography, size and shape of watershed, and land cover etc. The fourth paper assesses the water quality of groundwater in Ur river watershed, Bundelkhand region, India. During the study 25 samples were collected and analyzed for 8 physico-chemical parameters which include pH, turbidity, fluoride, nitrate, iron, hardness, chloride and total dissolved solids for the periods from 2014 and 2016. A Water Quality Index (WQI) was evaluated based on these parameters for drinking purpose. The assessment results are compared with drinking water quality standards by Bureau of Indian Standards IS 10500 (2012). The fifth paper demonstrates the utility of geomatics tools in mapping groundwater potential in Bhabhar zone facing serious water shortage in the Haridwar district, Uttarakhand. In the study, information such as geomorphology, drainage density, lineament density, slope, geology, the land use and the landcover derived from remotely sensed data supported with ground truth integrated in GIS environment to delineate the groundwater source areas in Bhabhar zone for management of groundwater. The last paper evaluates the changes in land use/land cover using RS and GIS techniques in Suvarnavathy sub-basin in Cauvery basin. The paper also evaluates the impact of land use land cover change on the water conservation of the basin.

Raj Deva Singh

(R.D. Singh)

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WORLD WATER DAY 2021

Celebrated by
Indian Water Resources Society, Meerut Chapter
March 22, 2021

Indian Water Resources Society, Meerut Chapter organized a National Level Seminar on the theme of this year's World Water Day – **“Valuing Water”** in Brihaspati Bhawan auditorium of Chaudhary Charan Singh (CCS) University Meerut. Prof N.K.Taneja, Vice Chancellor graced the occasion as Patron, Prof A.K.Chaube, Coordinator Department of Environment Sciences was the Chief Guest and Prof. Jaimala, Director Sir Chhotu Ram Institute of Engineering and Technology (SRIET) was Guest of Honour. Dr Awadhesh Pratap, Water Law Expert delivered the Keynote Address. About 100 guests, invitees and students attended the Seminar.

While welcoming guests and participants, Er. S.K.Kumar, Chairman IWRS Meerut Chapter summarized various activities of IWRS Meerut Chapter and *introduced the theme of the seminar*. He underlined urgent need of valuing water within the parameters of cultural, social and environmental obligations.

Patron of the Seminar Prof. N.K.Taneja, VC, CCS University suggested adoption of long term strategy to restrict water consumption in agriculture and industries by choosing alternatives and going for innovations. He along with other dignitaries on the dais *launched the “Abstract Book” of Seminar as well as a book “Pyaas aur Prayaas” authored by Er. B.D.Sharma, Convener of IWRS Meerut Chapter*. Er. B.D.Sharma spoke about contents the highlights of his book.

Prof. Jaimala, Guest of Honour and Director SRIET exhorted her students to take inspiration from the activities of IWRS and become partners in the crusade to save and value water as their future was at stake most due to water scarcity looming on the horizon. *She declared opening of Student Chapter of IWRS in SRIET* of which the Chairman would be Dr. Sushil Kumar, Asstt. Professor. A scroll of Charter was presented to her for the Student Chapter.

Keynote Speaker Dr. Awadhesh Pratap advocated that valuing water should form essential part of our National Water Policy and if need be it should be suitably revised. He said that only compulsive awareness of value of water can control its wastage and pollution. He explained 7 R's – Reduce, Reuse, Recycle, Recharge, Reform, Restore and Respect – as the key to water conservation.

Ms. Somi Tandon, Former Secretary to Government of India identified over-population and lack of education as principle reasons of water crisis and suggested water recycling and reuse should be a demonstrative part of school curriculum. Mrs. Anubhuti Chauhan, an active social worker spoke about her experiences in water conservation, especially in rural areas.

Chief Guest Dr. A.K.Chaube in his emphasized that access to clean water for all is seriously impeded due to exploding population, anti-ecological development spree and a general acceptance of water as free bounty. There has to be a balance between various water uses and value attached to it based on benefits or profits derived. Affordability maybe managed by corporate social responsibility. Er. B.D.Sharma, Convener of IWRS Meerut Chapter proposed a formal vote of thanks.



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Dear Members,

Greetings from IWRS!!!

We sincerely trust that you, along with your near & dear ones, are doing fine in this era of Covid-19. We convey our best wishes to all.

We are enclosing herewith a copy of our prestigious Indian Water Resources Society Journal – June 2021 issue. We hope that the article and information included in this journal issue will be of interest to the readers and benefit them. It has always been the endeavor of IWRS to provide a platform to the professionals for sharing their experiences regarding the recent advancements in the water resources sector of the nation and overseas, which may help professionals accelerate the development of water resources.

In a recent update, as per the latest decision taken by the executive committee of IWRS, we would like to inform you that we are discontinuing the regular process of sending hard copies of the forthcoming issues of the journal to the readers from next year. The idea of an E-Journals is in line with the vision of Digital India Mission and minimizes the contribution of printing in the negative state of the environment as we know it today. Henceforth, the manuscripts after acceptance will be published online, with the same credentials as before. Members, authors and readers may download the E-Journals from the website of IWRS for free. We will also send the E-Journal links through emails for which I request all the member to update their email addresses in our database by sending an email to secretaryiwrs@gmail.com.

We convey our sincere thanks to all our esteemed members and experts for their cooperation in achieving the journal's objective of disseminating the latest technical knowledge for the growth of the water resources sector and imparting training in water conservation and management. We request all the professionals in water resources to contribute technical papers in the future.

As usual, we will be eager to seek your valuable guidance in the days to come.

Stay safe & blessed.

Basant Yadav
Secretary

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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Tables:

Tables should be carefully prepared and should be used to replace text, not duplicate it. They should be numbered consecutively and should have a brief descriptive title. Tables should be placed in the main text.

Figures:

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Appendices :

All appendices must have a title (for example Appendix 1 : Description of the Model). The Appendices are to be placed after all Reference section.

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Avoid using the mathematical symbols that are difficult to read. If the length of an equation is likely to exceed one-column width (8 cm), break the equation appropriately. Try not to make the paper too mathematical.

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