

Papers Published during year 2023-24

1. N. Vivekanandan, C. Srisailam, R. G. Patil, "Intercomparison of rainfall estimates of three distributions for computation of PFD using rational formula and SUH approach" published in Journal of Civil Engineering and Urbanism by Scienceline Publication Limited, Turkey 25th March 2023.
2. Sathasivam Sathish, Roop Singh Kankara, Palanisamy Thanabalan, Rathinam Arthur James, "Provenance discrimination and geodynamics analysis of open and island coasts, South East coast of India: Inference on heavy minerals and hydrodynamics" published in Journal of Resource Geology by John Wiley & Sons Australia Ltd, 12th April 2023.
3. P. Thanabalan, R. Vidhya, R. S. Kankara, R. Manonmani, "Time-series analysis of MODIS (LST and NDVI) and TRMM rainfall for drought assessment over India" published in Journal of Applied Geomatic by Springer, 25th April 2023.
4. V. Noujas, R. S. Kankara, B. Rajan, "Assessment of beach morphological changes in the east coast of India during cyclone Phethai, through field data and numerical modeling" published in Journal of Marine Geodesy by Taylor & Francis Online, 27th April 2023.
5. Pratap Singh Solanki, M. S. Hanumanthappa, N. D. Atkekar, "Fast accessing, monitoring and analysis of water resource management information using 5G technology and IoT" published in International Journal of Scientific Research in Computer Science and Engineering by isroset.org (online) 30th April 2023.
6. T. K. Swain, "Emerging Trends in Engineering and Technology-Industry 4.0 (ETETI-2023)" published in International Conference at Indira Gandhi Institute of Technology (IGIT), Sarang, Odisha 06-07 May 2023.
7. Pratap Singh Solanki, A. D. Kadam, P. S. Khairnar, N. D. Atkekar, "Enhancement of cyber security and protection of sensitive R&D data using next generation firewall" published in International Journal of Applied Research on Information Technology and Computing (IJARITC) published by indian journals.com 10th May 2023.
8. Omkar Sakurikar, "International Conference on Data Analytics and Insights (ICDAI-2023)" published in International Conference at Techno International New Town (TINT), Kolkata, West Bengal 11-13 May 2023.
9. Aditya Thakare, Arun Goel, M. K. Verma, M. Z. Qamar, "Performance Assessment of Desilting Chamber using FLOW-3D" published in National Conference on Sustainable Development of Smart Cities Infrastructure (SDSCI-2023) organized by NIT, Kurukshetra during 27-28 May 2023.
10. Ishfakh M Shafeekh, M. Phani Kumar, "Numerical modeling to determine the groyne field dimensions for an artificial beach fill" published in International Journal of Engineering Research & Technology (IJERT), 05th May 2023.
11. Raghuchandra Garimella, M. Selva Balan, V. K. Shukla, Sreekanth Sampath, "Role of Artificial Intelligence based Image-Processing techniques for port development activities in physical tidal models" published in ISH Journal of Hydraulic Engineering, Taylor & Francis Online, 01st June 2023.
12. Vivek C. Jadhav, A. R. Deshmukh, M. Phani Kumar, "Setting up of a mathematical model using MIKE Software for a coastal project" published in International Journal of Innovative Science and Research Technology, 6th June 2023.
13. Tomesh Kumar Sahu, "राष्ट्रीय जलविज्ञान संस्थान" द्वारा रुड़की में आयोजित "राष्ट्रीय जल

संगोष्ठी-2023” में ‘जल वायु परिवर्तन एवं जल प्रबंधन’ विषय पर तकनीकी शोध पत्र का प्रकाशन| 17-18 August 2023.

14. Naren A., “Assessment of sea level rise over Bay of Bengal and Arabian Sea” published in ‘Eighth National Conference of Ocean Society of India (OSICON-23)’ organized by Indian National Centre for Ocean Information Services (INCOIS) and Ocean Society of India. 23-25 August 2023.
15. Sanjay N. Jha, “Application of numerical modelling in River Training Structures for development of a fishery harbour” published in ‘Eighth National Conference of Ocean Society of India (OSICON-23)’ organized by Indian National Centre for Ocean Information Services (INCOIS) and Ocean Society of India. 23-25 August 2023.
16. Vaibhawi Roy, “Wave tranquility and prediction of shoreline evolution along a site on East Coast of India” published in ‘Eighth National Conference of Ocean Society of India (OSICON-23)’ organized by Indian National Centre for Ocean Information Services (INCOIS) and Ocean Society of India. 23-25 August 2023.
17. M. Selva Balan, Om Pimpalgaonkar, “Satellite derived bathymetry using Sentinel-2 MSI satellite data for inland waterbodies” published in “International Conference on Dam Safety (ICDS) 2023” organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS ltd and World Bank at Jaipur, Rajasthan. 14-16 September, 2023.
18. S. D. Marulkar, Dheeraj Tamrakar, Amit Kumar, Neena Isaac, “Dam break analysis using 1-D mathematical model for Khadakwasla irrigation system published in “International Conference on Dam Safety (ICDS) 2023” organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS ltd and World Bank at Jaipur, Rajasthan. 14-16 September, 2023
19. M. Z. Qamar, M. K. Verma, “Sediment management in hydropower projects-CWPRS contributions” published in “International Conference on Dam Safety (ICDS) 2023” organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS ltd and World Bank at Jaipur, Rajasthan. 14-16 September, 2023.
20. Prakash K. Palei, Vijay K. Ghodake, S. Santhosh Kumar, Rizwan Ali, “Ensuring safety of earthen dam during controlled blasting for rock excavation in spillway portion” published in “International Conference on Dam Safety (ICDS) 2023” organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS ltd and World Bank at Jaipur, Rajasthan. 14-16 September, 2023.
21. Amit Kulhare, Kiran More, “Rehabilitation of energy dissipater and performance improvement of main and auxiliary spillways- A case study” published in “International Conference on Dam Safety (ICDS) 2023” organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS ltd and World Bank at Jaipur, Rajasthan. 14-16 September, 2023.
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23. G. A. Panvalkar, Rolland Andrade, S. Bhowmick, A. D. Chunade, “Application of well logging and tracer techniques for density determination & weak zone delineation in

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 25. S. Santhosh Kumar, Vijay K. Ghodake, Prakash K. Palei, Rizwan Ali, “Assessment of structural safety of dam and allied structures against induced vibrations in a power house- A case study” published in “International Conference on Dam Safety (ICDS) 2023” organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS Ltd and World Bank at Jaipur, Rajasthan. 14-16 September, 2023.
 26. Vijay K. Ghodake, Prakash K. Palei, S. Santhosh Kumar, Rajendra Singh Gurjar, Rizwan Ali, “Qualitative assessment by non-destructive testing of stilling basin, Sardar Sarovar dam, Gujarat (A case study)” published in “International Conference on Dam Safety (ICDS) 2023” organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS Ltd and World Bank at Jaipur, Rajasthan. 14-16 September, 2023.
 27. Sunil J. Pillai, Vigneswaran R., Sarbjeet Singh, Balachandran K., Jai Prakash Meena, Rizwan Ali, “Seepage control measures using cementitious grouting of masonry gravity dams- CWPRS experiences” published in “International Conference on Dam Safety (ICDS) 2023” organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS Ltd and World Bank at Jaipur, Rajasthan. 14-16 September, 2023.
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 31. S. D. Pingale, P. D. Patil, F. D. Momin, P. S. Kunjeer, Neena Isaac, “Assessment of the reservoir capacity and the sedimentation rate using hydrographic survey techniques of three reservoirs in Jharkhand, India” published in “International Conference on Dam Safety (ICDS) 2023” organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS Ltd

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32. Hanumanthappa M. S., Chetan S. Khadane, Shyamli Paswan, Shabeer Lone, Rizwan Ali, "Assessment of structural safety of the Ageing Gravity Dam by Finite Element method-A case study" published in "International Conference on Dam Safety (ICDS) 2023" organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS ltd and World Bank at Jaipur, Rajasthan. 14-16 September, 2023.
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34. J. S. Edlabadkar, Tanusree Samanta, A. D. Khot, Sheetal Waghmare, "Geotechnical analysis for optimization of rehabilitation measures for earthen dam- A case study" published in "International Conference on Dam Safety (ICDS) 2023" organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS ltd and World Bank at Jaipur, Rajasthan. 14-16 September, 2023.
35. V. Chandrashekhar, G. Dhanunjaya Naidu, Vivek Bagade, Prashant Janrao, Amar Deep, B. Suresh Kumar, Rizwan Ali, "Identification of weak zones by cross-hole seismic tomography in Warna Masonry gravity dam, Maharashtra (A case study)" published in "International Conference on Dam Safety (ICDS) 2023" organized by DoWR, RD & GR, MoJS in collaboration with Rajasthan WRD, CWC, National Dam Safety Authority, MNIT Jaipur, WAPCOS ltd and World Bank at Jaipur, Rajasthan. 14-16 September, 2023.
36. Sanjay A. Burele, G. C. Signarkar, Pravuram Panda, K. A. M. Bagwan, Rizwan Ali, "Studies to determine In-situ strength parameters of stone masonry of Massanjore dam, Jharkhand" published in "Spring Proceeding of Flood Forecasting and Hydrolic Structures, Hydro 2021, Springer, Singapore", 01st September, 2023.
37. V. Prabhakarachary, R. S. Erande, Sunil Naik, S. Bagwan Jamir, Phani Kumar, R. S. Kankara, "Experimental verification of wave height predictions for shallow wave basin in a top hinged flap type wave generator" published in "International Journal of Mechanical Engineering Research and Technology" November, 2023.
38. V. S. Ramarao, M. G. Muni Reddy, K. C. Sahu, "Optimization of hydraulic design of approach channel of spillway by hydraulic model studies" Published in "Journal of Engineering and Applied Science (Springer)" November, 2023.
39. Arun Goel, Aditya Thakare, M. K. Verma, M. Z. Qamar, "Evaluation of design approaches of desilting basins for hydroelectric projects in Himalayan region" Published in "ISH Journal of Hydraulic Engineering" November, 2023.
40. S. Nagakumar, B. Prema Raju, G. D. Naidu, P. T. Rao, "Delineation of weathered/fracture zones in hard rock terrain using Electrical Resistivity Imaging (ERI) geophysical technique" published in National Conference on Environmental challenges- Role of Science and Technology" 18-19 December, 2023.
41. B. Prema Raju, S. Nagakumar, G. D. Naidu, P. T. Rao, P. T. Rao, "Estimation of shear wave velocity of subsurface strata for delineation of fracture/weathered zones in the hard rock" published in National Conference on Environmental challenges- Role of Science and Technology" 18-19 December, 2023.
42. Komal Vighe, J. Sinha, "Ship motion analysis for three types of ships using OPTIMOOR at Mus harbor" published in "28th International Conference on

- "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
43. Sanjay A. Burele, G. C. Singarkar, Pravuram Panda, K. A. M. Bagwan, Rizwan Ali, "Assessment of permeability of foundation strata below Earthen dam of Songaon-Shivni project- A case study" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
 44. V. S. Ramarao, M. G. Muni Reddy, K. C. Sahu, "Affect of layout of approach channel on the discharging characteristics of spillway" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
 45. V. S. Ramarao, R. R. Bhate, "Design of an innovative energy dissipator for spillway of Subansiri lower H.E. project, Arunachal Pradesh/Assam" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
 46. Shivani Sahu, V. B. Sharma, Prabhat Chandra, "Optimization of dredged material dumping ground location for Kokan LNG private limited" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
 47. V. B. Sharma, Prabhat Chandra, "Oil spill simulation of possible scenarios for Mormugao port" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
 48. P. P. Gadge, Ravindra Bhate, "Enhancing the hydraulic efficiency of the spillway by optimizing the design of various components using physical modeling" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
 49. Amit Kulhare, P. P. Gadge, "CFD simulation and experimental validation for orifice spillway flow" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
 50. K. T. More, "Physical and numerical modelling of sloping apron stilling basin type of energy dissipater- A case study" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT)

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51. G.V.R. Murthy, V. S. Telgote, "Mathematical model studies for hydraulic transient analysis of lift irrigation schemes" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
52. Jotsana G. Ambekar, B. Raghuram Singh, R. G. Patil, "Sediment removal from Durgapur barrage pond, West Bengal using physical model studies" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
53. Sudheer S. Chavan, M. D. Sawant, Prabhat Chandra, "Role of approach channel leading to harbor in natural wave energy attenuation- A case study" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
54. B. Gopikrishna, "Factors influencing changes in estimates of surges due to cyclones" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
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57. B. R. Tayade, Praveen K. M., Deepak Sharma, S. P. Jagtap, "Physical modeling for the restoration of damaged breakwater - A case study at Kalpeni Island, Lakshadweep" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
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68. M. S. R. Naidu, A. Jyothi Prakash, P. M. Abdul Rahiman, T. K. Sahu, G. C. Sahoo, "Mitigating hydraulic transients in piping systems: A case study on surge analysis and anti-surge device recommendations" published in "28th International Conference on "Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO-2023)" by Department of Civil Engineering, National Institute of Technology(NIT) Warangal, Telangana in association with Indian Society for Hydraulics (ISH), Pune at NIT, Warangal. 21-23 December 2023.
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