DR. BISWADEEP BHARALI

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Google Scholar ID: GoE8oeEAAAAJ
Web of Science: AAU-1249-2021
Scopus ID: 57218769310

OBJECTIVE :

I am looking forward to build my career by utilizing all opportunities and to implement my skills and knowledge in order to pursue a long-term relationship with the organization and to be part of the team that dynamically works towards the growth of the organization.

EDUCATIONAL QUALIFICATIONS:

2016 – 2022 Ph.D. in water Resources
Assam Engineering College, Guwahati-781013, Assam, INDIA
Gauhati University (GU), Guwahati-781014, Assam, INDIA
Thesis Title "Numerical Approach for Channel Routing in Ungauged Basin"

2012 - 2015 Master of Engineering (M.E) in Watershed Management and Flood Control
Assam Engineering College, Guwahati-781013, Assam, INDIA
Gauhati University (GU), Guwahati-781014, Assam, INDIA
Thesis Title "Estimation of Muskingum Parameters Using MATLAB Software"
(73.07 %)

2008-2012 Bachelor of Engineering (B.E) in Civil Engineering
M.V.J College of Engineering, Bangalore-560067, Karnataka, INDIA
Visvesvaraya Technological University, Belagavi-590018, Karnataka, INDIA
Thesis Title "Study on Self Compacting Concrete using GGBS and FA"
(71.07 %)

EXPERIENCES:

Experience	Total Experience in years
Teaching and Research	10.9
Industrial	1.9

03/2025 - Current	**Assistant Professor** *Department of Civil, Assam Skill University (ASU), Darrang-25, Assam, India*
02/2024 – 03/2025	**Hydraulic Design Engineer** **(1.1 Years)** *Project Implementation Support Consultant (PISC) for Climate Resilient Brahmaputra Integrated Flood and Riverbank Erosion Risk Management Project in Assam (CRBIFRERMP), Asian Development Bank (ADB) Project, Flood & River Erosion Management Agency of Assam(FREMAA), Govt. of Assam, Guwahati-29, Assam, India*
08/2024 – 01/2025	**Professor (*Visiting Faculty*)** **(0.5 Years)** *Civil Engineering Department, The Assam Kaziranga University (KU), Jorhat-06, Assam, India*
01/2023 – 03/2025	**Associate Professor (*Visiting Faculty*)** **(2.2 Years)** *Civil Engineering Department, Scholar's Institute of Science & Technology (SITM), Guwahati-35, Assam, India*
10/2022 – 02/2024	**River Engineer** **(1.4 Years)** *Project Management and Technical Consultants (PMTC) for Assam Integrated River Basin Management Projects (AIRBMP), World Bank Project, Flood & River Erosion Management Agency of Assam(FREMAA), Govt. of Assam, Guwahati-29, Assam, India*
06/2015 – 10/2022	**Assistant Professor** **(7.7 Years)** *Civil Engineering Department, Assam down town University, Guwahati-26, Assam, India*
08/2013 – 05/2015	**Teaching Assistant** **(1.7 Years)** *Civil Engineering Department, Assam down town University, Guwahati-26, Assam, India*

PROJECTS:

- **Funded Project:**

1. Received funding project from Assam Science Technology and Environmental

Council (ASTEC) in the year 2020, to accomplish research related to the subject of 'Promoting Sustainable Housing with Fundamental Shift beyond Net Zero and Green Home'

PUBLICATIONS:

- Journal (SCI/Scopus/Web of Science/ International)

1. Das, G., **Bharali, B**., (2024). "An integrated study of water quality in the Ganol River Basin, India: Application of hydro-chemical, multivariate statistical, and water quality index techniques". *Environmental Quality Management*, ISSN: 1520-6483, 1088-1913, WILEY [**Scopus**]. [https://doi.org/10.1002/tqem.22171]

2. Hinge, G., **Bharali, B.**, Baruah, A., & Sharma, A., (2022). "Integrated groundwater quality analysis using Water Quality Index, GIS and multivariate technique: a case study of Guwahati City". *Environmental Earth Science*, ISSN: 1866-6299, 1866-6280, Springer [SCI (**Impact Factor - 3.119**)] [https://doi.org/10.1007/s12665-022-10544-0]
3. **Bharali, B**., Misra. U.K., (2022). "Numerical Approach for Channel Flood Routing in an Ungauged Basin: a Case Study in Kulsi River Basin, India". *Water Conservation Science and Engineering*, ISSN: 2364-5687, Springer [ESCI (**Impact Factor - 2.0**)] [https://doi.org/10.1007/s41101-022-00149-w]
4. Das, J. K., & **Bharali, B**. (2022). "A Simplified Numerical Approach to Predict Bearing Capacity of Soil for Shallow Foundation". *Journal of Applied Engineering Sciences*, *11*(2), 93-100. ISSN: 2284-7197, Sciendo, ESCI (**Impact Factor – 1.1**). [https://doi.org/10.2478/jaes-2022-0005]
5. Sharma, A., Baruah, A., Mangukiya, N., Hinge, G., & **Bharali, B**. (2022). Evaluation of Gangetic dolphin habitat suitability under hydroclimatic changes using a coupled hydrological-hydrodynamic approach. *Ecological Informatics*, 101639. [SCI (**Impact Factor - 5.1**)] [https://doi.org/10.1016/j.ecoinf.2022.101639]
6. **B. Bharali,** U.K. Misra (2021). "An Approach for Prediction of Flood Hydrograph at Outlet of an Ungauged Basin Using Modified Dynamic Wave Model" *ISH Journal of Hydraulic Engineering*, ISSN: 0971-5010 (Print) 2164-3040 (Online), Taylor & Francis [**Scopus, Q2**]. [https://doi.org/10.1080/09715010.2021.1901250]

7. **B. Bharali,** U.K. Misra (2021). "Prediction of Flood Hydrograph Using the Modified Cunge-Muskingum Method in an Ungauged Basin: a case study in Kulsi River Basin, India" *Meteorology Hydrology and Water Management*, ISSN: 2299-3835. [ESCI (Web of Science) (**Impact Factor - 0.6**)]. [https://doi.org/10.26491/mhwm/143249]
8. Das, J. K., Deb, S., & **Bharali, B**. (2021). "Prediction of Aggregate Impact Values and Aggregate Crushing Values Using Light Compaction Test". *Journal of Applied Engineering Sciences*, *11*(2), 93-100. ISSN: 2284-7197, Sciendo, ESCI (**Impact**

Factor – 1.1). [https://doi.org/10.2478/jaes-2021-0012]

9. **B.Bharali,** U.K. Misra (2020). "Development of a Diffusive Wave Flood Routing Model for an Ungauged Basin: A case study in Kulsi River Basin, India" *Modeling Earth Systems and Environment*, ISSN:2363-6203, Springer, [Scopus, ESCI (Web of Science) (**Impact Factor – 3.2**)]. [https://doi.org/10.1007/s40808-020-00952-1]

10. **B.Bharali,** U.K. Misra (2020). "Investigation of Flood Routing Using Variable Parameter Kinematic Wave Model (VPKWM) for Non-Prismatic Natural Channel in an Ungauged Basin" *Journal of Applied Engineering Sciences*, ISSN: 2284-7197, Sciendo, ESCI (**Impact Factor – 1.1**). [https://doi.org/10.2478/jaes-2020-0017]

11. **B. Bharali** (2019). "Rate of infiltration for different soil textures using rainfall simulator and Green–Ampt model" *ISH Journal of Hydraulic Engineering*, ISSN: 0971-5010 (Print) 2164-3040 (Online), Taylor & Francis, [**Scopus, Q2**]. [https://doi.org/10.1080/09715010.2019.1576549]

- Conferences (International)

1. Sharma, A., Hinge, G., Baruah, A., & **Bharali, B**. (2021). "Assessing influence of climate change on favorable conditions for aquatic species using an integrated hydrological and hydrodynamic approach: A case study in the Kulsi River", India. In *AGU Fall Meeting 2021*. AGU. [https://agu.confex.com/agu/fm21/meetingapp.cgi/Paper/956951]

2. **B.Bharali**, B.Rajbanshi, T.Yangzom, H.Dahal, M.Rai, B.Sewa (2021). "Promoting Sustainable Housing with Fundamental Shift beyond Net-Zero and Green Building" *EGU General Assembly Conference*, on 19th to 30th April, 2021. [https://doi.org/10.5194/egusphere-egu21-15833]

3. G.Hinge, J.K.Das**, B.Bharali**, (2021). "A numerical approach to predict soil bearing potential for isolated footing" *EGU General Assembly Conference*, on 19th to 30th April, 2021. [https://doi.org/10.5194/egusphere-egu21-321]

4. **B. Bharali** and P.R.Saud (2015)." Estimation of Design flood for Dibang Multipurpose Dam in Dibang River Basin".7th International Conferences on Emerging Technologies" in Civil Engineering, Architecture and Environmental Engineering for Global Sustainability" (CEAEGS-23015) on 4th and 5th April 2015, held in Jawaharlal Nehru University (J.N.U), New Delhi.

5. **B. Bharali** (2015)." Estimation of Reservoir storage capacity by using Residual Mass Curve". International Conferences on Innovative research in "Mechanical, Electrical, Electronics, Civil, Computer science and Information Technology" (MECIT-2015) on 16th and 17th May 2015 in Jawaharlal Nehru University (J.N.U), New Delhi.

6. **B. Bharali** (2015). "A Study on Frequency analysis for puthimari catchment by Gumbel Distribution Method". International Conferences on Innovative research in "Mechanical, Electrical, Electronics, Civil, Computer science and Information

Technology" (MECIT-2015) on 16th and 17th May 2015 in Jawaharlal Nehru University (J.N.U), New Delhi.

7. **B. Bharali** and A. Baruah (2015). "A Study on Muskingum Equation using conventional method and MATLAB software for River Routing." Assam Water Conference, Feb 6th, pp 180 – 190.

MEMBERSHIP OF TECHNICAL SOCIETIES:

- Life Member of Indian Association of Hydrologists (IAH), Roorkee (India), **(LM-1973)**
- Affiliate Member of American Society of Civil Engineers (ASCE), **(Member ID: 12146375)**

TECHNICAL SKILLS:

- Working knowledge of Civil Engineering Software (MATLAB, Arc GIS, HEC-HMS, SWMM, HEC-RAS, AutoCAD), Computer languages- BASIC C.

WORKSHOP/SEMINAR:

- Participated in the National Workshop on "Ground Improvement Techniques with reference to North Eastern Region" on 13th October 2012 organized by Indian Geotechnical Society (IGS).
- Participated in the one-day Seminar on "Earthquake and its Effects on Structures" on 9th May 2015 organized by Department of Civil Engineering, Assam down town University.
- Participated in the two-day International Seminar on "Landslides and Riverbank Erosion" on 12th-13th December 2017 organized by Department of Civil Engineering, Assam down town University.
- Participated in the one-week workshop "Monsoon School on Urban Flood" during 02-07 July 2018 organized by Department of Civil Engineering, Indian Institute of Science (IISc), Bangalore, Sponsored by ITRA & UNESCO.
- Successfully completed in the training programme / workshop on **Internal Auditor (ISO 9001:2015)** conducted by National Productivity Council Guwahati from 8th to 10th August 2018.
- Participated in the three days International TEQIP-III sponsored Workshop on "Advances in Integrated Water Resources Management" on 16th – 18th December 2019 organized by Indian Institute of Technology, Guwahati (IITG).
- Participated in the one-week faculty development program (FDP) on "Essentials for Good

Research" on 27th May – 2nd June 2020 organized by Faculty of Engineering and Technology, Assam down town University.

- Participated in the one-week faculty development program (FDP) TEQIP-III sponsored on "Recent Development in Civil Engineering" from 13th – 17th July 2020, organized by Civil Engineering Department, Jorhat Engineering College.

- Participated in the Five days faculty development program (FDP) on "Research in Engineering- A Way Forward" from 6th – 10th July 2020 organized by A. P. SHAH Institute of Technology, Thane

PERSONAL PROFILE:

Date of Birth : 27/05/1989

Nationality : INDIAN

Gender : Male

Languages known : English, Hindi, Assamese.

Interest : Teaching, Gaining Knowledge.

Permanent Address : House No.3, Late Kishore Kumar Path, Forest Gate, Hengrabari, Guwahati, Pin-781006, Assam, INDIA

DECLERATION:

I HERE BY DECLARE THAT ALL THE INFORMATION PROVIDED BY ME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Place: Guwahati, Assam, INDIA

Date: 23/04/2025 **Signature**