

Personal Datasheet of DR. ENGR. NASIR AHMED

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PROFILE SUMMARY

Having 11 years experiences in working with a leading foreign NGO named CARE-International Bangladesh and three foreign consultants, such as, British Consulting firms HALCROW Ltd., Mott MacDonald Ltd., and Malaysian Consulting firm Jurutera Perunding ZAABA Sdn. Bhd. Lastly, worked with a government organization named 'Bangladesh Atomic Energy Commission' for about 24 years. Worked as a Top Management (Member, Engineering) at BAEC and as Team Leader/Project Director/ Project Coordinator in different national and international civil and water resources engineering related total 15 projects. Possesses versatile skills in project management, problem-solving, and collaboration. Brings fresh perspective and strong commitment to quality and success. Recognized for adaptability and proactive approach in delivering effective solutions. Experienced leader with strong background in guiding teams, managing complex projects, and achieving strategic objectives.

SKILLS AND COMPETENCIES

(1) Technical Skills: Civil and Water resources engineering, management and planning; Flood risk assessment and mitigation; Sustainable groundwater resources planning and management; Water quality assessment; Environmental impact assessment; Groundwater hydrology; Hydrogeology and isotope geochemistry; Climatology and climate change; Geographic Information Systems for water resources, Demonstrable project management, Data Science with Machine Learning and Generative AI.

(2) Computer Skills: Excel for data analysis; Mathematical modelling of groundwater flow (Visual MODFLOW); Aqueous geochemical analysis and modelling (AQUACHEM and PHREEQC); ArcGIS & Google Earth Engine (Remote Sensing); Multivariate statistical analysis using SPSS & R Studio; MS Office || MS Project || Python with ML & DL || MySQL || Power BI || Tableau.

(3) Leadership Skills: Has demonstrable leadership skill. Worked as a Team Leader/ Project Director/ Project Coordinator in different national and international civil and water resources related 15 projects. Positioned as Head, Isotope Hydrology Division, INST, AERE, Savar for about 19 years. Worked as Director (Engineering) leading the engineering division of BAEC having 35 engineers/officers and staff for about 3 years. Positioned as Member (Engineering) at BAEC for about 2 years as appointed by Ministry of Public Administration (MoPA).

EDUCATION and CERTIFICATIONS

- BSc Engineering (Civil) & MSc Engineering (Water Resources Engg), BUET; PhD (Atmospheric Physics), JU.
- Professional Diploma in 'Data Science & Business Analytics with R&D', Brit College of Engineering & Technology (BCET), United Kingdom, endorsed by ISM Education UK, February 2026.
- PMP Project Management – Fundamental Concepts for Beginners, ALISON Empower yourself, an e- Learning Company based in Ireland, 2 April 2025.
- Professional Engineer as registered by Bangladesh Professional Engineers Registration Board on 27 November 2011.
- IAEA Fellowship on 'Groundwater Tracing Techniques' (isotope hydrology & geochemistry), hosted by Joanneum Research Institute of Hydrogeology and Geothermics, Graz, Austria, Aug-Sept 2001.
- Post Graduate Diploma in Personnel Management, Institute of Personnel Management Bangladesh, Dhaka, June 1992.

MAJOR HIGHLIGHTS OF PROJECT WORKS

(1) Worked in Integrated Food for Work Project under CARE International, Bangladesh, (2) Worked in HALCROW-BCEOM-DHV Consortium on component-1 of the CEC funded consultancy for "BWDB Systems Rehabilitation Project", (3) Worked with Phase-1 of Commission of the European Communities (CEC) funded "Cyclone Shelter Preparatory Study Project", (4) **Project Director** of National Annual Development Program (ADP) project "Isotope Hydrology for Groundwater Resources Exploration" under the Ministry of Science and Information & Communication Technology, Jul 2006–Dec 2009, (5) **Project Counterpart** of an IAEA-TC project "Application of Isotope Techniques for Planning and Management of Water Resources in Coastal Area", 2007-2009, (6) **National Project Coordinator** of an IAEA-RCA Project "Using Environmental Isotope and Chemical Techniques in the Assessment of Fresh Water Quality in the Groundwater of Sylhet Area, north eastern of Bangladesh", Jan 2009 – Dec 2011, (7) **Team Leader** of a project "An Assessment of Aquifer Potential in and around Proposed Well Field Area near Madunaghat, Chittagong using Isotope Techniques" under the MoU between BAEC & IWM and associated with the project of CWASA "Chittagong Water Supply Improvement and Sanitation Project" funded by The World Bank, 2014 – 2015, (8) **Team Leader** of a collaborative work between The Institute of Tibetan Plateau Research, Chinese Academy of Sciences, and BAEC titled "Innovative Study of the Influence of Indian Monsoon on Bangladesh and Tibetan Plateau Water Cycle using Precipitation Stable Isotopes", 2015 – 2017.

PUBLICATIONS

Total 19 Nos. National and 28 Nos. International publications in different topics were published.