

SYEDA JESMIN HAQUE

Deputy Director
Geological Survey of Bangladesh

PERSONAL QUALIFICATION AND INFORMATION

Research oriented, highly motivated, cooperative, sincere and hardworking Bangladeshi, Age: 42

EDUCATION

Non-Degree course in GEOLOGY
3631SYSTEMATIC PALEONTOLOGY — as a distance student, Missouri University of Science and Technology in the fall semester, (90.48%, Grade A) 2018

M.S in Geological Engineering, University Kebangsaan Malaysia (The National University of Malaysia), (CGPA 3.86 in a scale of 4) 2015
Thesis Title: Effect of Urbanization on Groundwater Quality in Bangladesh (Dhaka) and Malaysia (Kajang, Bangi, Semenyih)

Diploma in Water and Environmental Research, Hiroshima University, Japan, (Certificate) 2011

M.S in Hydrology & Environmental Geology, University of Dhaka, (1st Class 5th) 2002
Thesis Title: Hydrogeological Characterization of the Lower Dupi Tila Aquifer of Dhaka, Bangladesh.

B.Sc (Honours) in Geology, University of Dhaka (2nd Class 4th) 2001

HSC (Science) Comilla Board (First division) 1997

SSC (Science) Comilla Board (First division) 1995

CONTACT

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SOCIAL

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RESEARCH INTEREST

- *Environmental geology*
- *Hydrogeology*
- *Contaminant Hydrogeology*
- *Geochemistry*
- *Engineering Geology*
- *Biostratigraphy*
- *Micropaleontology*
- *Palynology*
- *Paleoclimate*
- *Paleoenvironment*

WORK HISTORY

Year: August 2020 to till now

Position held: Deputy Director (Geology)

Organization: Geological Survey of Bangladesh;153, Pioneer Road, Segunbagicha, Ramna, Dhaka

Activities performed:

- Design the annual research projects with financial expenditure.
- Carry out the annual field program to implement the projects.
- Planning the annual financial expenditure (branch level) and maneuver the administrative and research related activities.
- Laboratory analysis and report preparation of collected samples for related branch.
- Identify the paleoenvironment as well as the natural resources and hydrocarbon prospects
- Make policies on the basis of the research findings for resource management and sustainable development of the country.

Year: October 2010 to September 2011

Position held: Visiting Researcher

Organization: Hiroshima University, Japan

Year: February 2007 to July 2020

Position held: Assistant Director (Geology)

Organization: Geological Survey of Bangladesh; 153, Pioneer Road, Segunbagicha, Ramna, Dhaka

PROFESSIONAL ACHIEVEMENTS

- National Integrity Award (Shuddhachar Award), for the fiscal year 2021-2022.
- Award for dedicated effort in developing ‘Simplify the provision of information in the form of integrated palynology and palaeontological database app’ innovative idea (service simplification category) for the fiscal year 2020-21.

ON-JOB SKILLS/ EXPERIENCES

- Idea generation, Data accumulation and project implementation of the first-ever paleontological mobile application of the country “BD Palaeontology”.

Haque SJ

LANGUAGES:

Bengal: Mother language.

English: Fluent in reading, writing, listening and speaking.

Bahasa Melayu: Completed introductory courses from University Kebangsaan Malaysia

RELEVANT PREVIOUS COURSES:

- Hydrology
- Hydrogeology-1(Theory)
- Hydrogeology-2(Application)
- Engineering Geology
- Geochemistry
- Environmental Geology
- Hydrogeology Lab.
- Geophysical and Engineering Geology Lab.
- Sequence Stratigraphy
- Systematic Paleontology
- Environmental Geophysics
- Soil Engineering
- Geohazard Investigation
- Engineering Geology
- Rock Engineering
- Engineering Geophysics

- Establishment and modernization of well-equipped paleontology and palynological laboratory for Geological Survey of Bangladesh.
- Establishment of complete palynological research methodology for Geological Survey of Bangladesh.
- Formulation of pollen-spore catalogue from live flower and dry flower samples.

LEADERSHIP CAPABILITY

- Performing as a team leader in formulating the country's first-ever paleontological mobile application "BD Palaeontology".
- Led the research activities for the concerned organization.

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

Member, **Bangladesh Geological Society**, since 2007 (Membership no. 715).

Member, **Japan Geoscience Union (JPGU)**, since 2011.

Executive Member, **International Association for Engineering Geology and the Environment (IAEG)** Bangladesh National Group, Since 2017 (Membership ID: IAEGBNGFM20170008).

Member, **The Geological Society of America (GSA)**, Since 2018 (Membership ID. 9249163).

Member, **International Association for Promoting Geoethics (IAPG)**, Since 2017 (Membership ID: 1783)

CONFERENCE ATTENDED

National Seminar on Geosciences for Sustainable Development of Bangladesh, Organized by; Geological Survey of Bangladesh, **December, 2021.**

Dugeoexposer2017: Geology for Sustainable Development, Organized by; Department of Geology, University of Dhaka, Bangladesh, **December 7-9, 2017.**

COMPUTER LITERACY AND RESEARCH RELEVANT SOFTWARE:

- *Basic programs in computer and application of various software's*
- *Graphics and multimedia: 1) Adobe Photoshop 2) Adobe Illustrator and 3) Paint Images.*
- *Hydrochemical Softwares: Aquachem-4, Aqtesolve.*
- *Palynological Software: POLPAL Diagram (v. 10.12).*
- *Data Analysis Software: PAST 4.03.*
- *Geological Softwares: 1) Rockworks-2004, 2) Golden software-Surfer 8.3, Strater 4 and 3) Arc-GIS 9.3 (introductory level). 4) Ilwis*
- *Slope stability Software: Stereo32*

ARTICLE REVIEWER FOR JOURNAL:

- *Journal of Environment, Development and Sustainability (Springer).*
- *Journal of Applied Life Sciences International (Science Domain International).*

Japan Geoscience Union (JpGU), Makuhari, Chiba, Tokyo, Japan, **May 22-27, 2011.**

International conference on Geosciences for Global Development (GeoDev) Dhaka, Bangladesh, **October 26-31, 2009.**

XII Geological Conference, Organized by Bangladesh Geological Society, Bangladesh, **March 19-20, 2008.**

TRAINING AND PROFESSIONAL DEVELOPMENT

- “The Advanced EDS and WDS Certified Training”, under the training on uses of FESEM with WDS, CL, EDS; (Organized by Technoworth Associates LTD, Dhaka) Held in Geological Survey of Bangladesh, Dhaka. 18th to 24th November, 2018.
- “Operation and Application Training on ZEISS Sigma 300”, under the training on uses of FESEM with WDS, CL, EDS; (Organized by Technoworth Associates LTD, Dhaka and Carl Zeiss India (Bangalore) Pvt. Ltd. Research Microscopy Solutions) Held in Geological Survey of Bangladesh, Dhaka, 21th to 25th October, 2018.
- “Training Course on Ultra-Pure Water Distillation Plant Concept and Operation” (Organized by The Project on assessment and evaluation of valuable mineral deposits in river bed's of Bangladesh) Held in Geological Survey of Bangladesh, Dhaka, 11th to 15th March, 2018.
- “Workshop on Geo-scientific Mapping in Areas of Unconsolidated Sediments”, (Organized by Geoscience Awareness and Training Centre, GATC) Held in Geological Survey of Bangladesh, Dhaka, 7th to 14th November, 2013.
- “Web Design course” Bangladesh Korea Information Access Center (IAC), Bangladesh. Held in Bangladesh University of Engineering & Technology (Department of Computer Sciences and Engineering), Dhaka, 23rd July to 7th September, 2009
- Environmental Impact Assessment of Development Projects, Academy for Planning and Development, Bangladesh, Held in Academy for Planning and Development, Dhaka, 19th to 27th October, 2008.
- Introductory Arcgis and its Application in geosciences. (jointly organized by BGR, Germany and GSB, Bangladesh), Held in Geological Survey of Bangladesh, Dhaka, 25th June to 3rd July, 2008.
- “Closing Workshop of the Research Project on Impact of Climate and Sea Level Change in Part of the Indian Sub-Continent (CLASIC). Held in Council Building, Bangladesh University of Engineering & Technology, Dhaka, 8th June, 2008
- “Orientation Training” Organized by Geoscience Awareness and Training Centre, GATC) Held in Geological Survey of Bangladesh, Dhaka, 5th to 9th August, 2007.

PUBLICATIONS

- **Haque, S.J.** 2021; Palynology: An important indicator in determining the presence of hydrocarbons (in Bengali). 26th March Memoranda. Geological Survey of Bangladesh.
- **Haque, S.J.** 2021; Lagerstätte: a Complete Paleoenvironment Exhibition Possibility in Bangladesh. National Seminar on Geosciences for Sustainable Development of Bangladesh, organized by Geological Survey of Bangladesh, December, 2021.
- **Haque, S.J.;** Akther, K. M.; Huque, A. 2020; Study of Standard Pollen Slides of Monsoon Flowers from the Dhaka City and Surrounding Areas, Bangladesh. 36th International Geological Congress, 2-8 March, 2020, New Delhi, India, The Basic Science for a Sustainable Future (Abstracts), Theme 22: Evolution of Monsoon: Past, Present and Future, Abstract No: 6870-6076, p- 2164, , Published under the Patronage of Geological Society of India, Bengaluru, ISBN (Electronic): 978-93-80998-45-9.
- **Haque, S.J.;** Onodera, S.; Shimizu, Y. 2019; Surface Water Nitrogen Load Due to Food Production-Supply System in South Asian Megacities: A Model-based Estimation. Advances and Trends in Agricultural Sciences Vol. 1, Chapter 13, Print ISBN: 978-81-934224-3-4, eBook ISBN: 978-93-89246-17-9, DOI: 10.9734/bpi/atias/v1, p123-132.
- **Haque, S.J.** 2018; Urbanization and Groundwater Scarcity in Dhaka City; Bangladesh National Committee of the International Commission on Irrigation and Drainage (BANCID), Yearly Newsletter, pp. 38-42.
- Akther, K. M.; **Haque, S.J.;** Karim, S.; Majlis, A.B.K.; Begum, N.; 2018; Occurrence and Distribution of Foraminifera on the Coastal Area of Bay of Bengal, Bangladesh. (Abs no: ECC-7); International Conference on Geosciences and Environment (ICGE 2018), 8-9 September, 2018, Organized by; Department of Geology and Mining, University of Rajshahi, Bangladesh, p64.
- **Haque, S.J.;** Roslan, N. 2017; Groundwater Quality Aspect Owing to Urbanization in Langat Basin (Kajang, Semenyih) Malaysia. Asian Journal of Environment & Ecology 4(2): 1-9, 2017; Article no.AJEE.36049 ISSN: 2456-690X DOI: 10.9734/AJEE/2017/36049.
- **Haque, S.J** 2017; Hydrogeology of the lower Dupi Tila Aquifer of Dhaka City Bangladesh, The hydrogeological and hydrochemical characterization. Book; LAP LAMBERT Academic Publishing; ISBN: 978-3-659-76362-5;<https://www.lap-publishing.com/catalog/details//store/gb/book/978-3-659-76362-5/hydrogeology-of-the-lower-dupi-tila-aquifer-of-dhaka-city,-bangladesh>
- **Haque, S.J.;** Onodera, S.; Shimizu, Y. 2017; Vulnerability and Trend Analysis of Water Pollution due to Urbanization: A Relative Study On Five Asian Megacities. (Ex Abstract and Poster no: 16); Dugeoexposer2017: Geology for Sustainable

Development, 7-9 December 2017, Organized by; Department of Geology, University of Dhaka.

- **Haque, S.J.;** Huque, A.; Akther, K. M. 2017; Palynological Study of Four Samples from a Borehole of Aftabnagar, Dhaka, Bangladesh. (Ex Abstract no: 23); Dugeoexposer2017: Geology for Sustainable Development, 7-9 December 2017, Organized by; Department of Geology, University of Dhaka.
- **Haque, S.J.;** Rahman, S.M.H. 2015; Standard Palynological Slides From Contemporary Flowers of Dhaka, Bangladesh. Palynology poster, GSA (Geological Society of America) Annual Meeting in Baltimore, Maryland, USA (1-4 November 2015) abs vol. 47, no. 7, Paper no. 44-6, T146.
- **Haque, S.J.;** Onodera, S.; Shimizu, Y. 2012; An Overview of the Effects of Urbanization on the quantity and Quality of Groundwater in South Asian Megacities, Journal of Limnology, Springer, DOI 10.1007/s10201-012-0392-6
- **Haque, S.J.;** Onodera, S.; Shimizu, Y. 2011; A Poster on Urbanization and Water Quality in South Asian Megacities, Presented at Annual Conference of Japan Geoscience Union (JpGU), Tokyo, Japan, May 22-27, 2011, at Makuhari, Chiba, Japan. AHW026-P05
- Akther, K. M.; Majlis, A.B.K.; **Haque, S.J.;** Karim, S. 2011; Foraminifera in Late Quaternary coastal Sediments of Bangladesh. National Seminar on Bangladesh Coast: Geology, Hazard and Resources, Geological Survey of Bangladesh, (Abs), p12.
- Hossain, M. A.; Majlis, A.B.K.; Akther, K. M.; **Haque, S.J.** 2011; Palenological Study of few samples from Noakhali and Gopalganj areas Bangladesh. National Seminar on Bangladesh Coast: Geology, Hazard and Resources, Geological Survey of Bangladesh, (Abs), p9.
- **Haque, S.J.;** Onodera, S.; Shimizu, Y. 2011; Impact of Urbanization on Surface Water Contamination: South Asian Perspective. Bangladesh Journal of Geology, Vol. 29-30, p.116-134. ISSN 1608-957X
- **Haque, S.J.;** Hasan, M.A.; Ahmed , K.M.; Rahman, M.M. 2009; Riposte of the Lower Dupi Tila Aquifer to Overexploitation in Dhaka, Bangladesh. GEOSCIENCE FOR GLOBAL DEVELOPMENT (GeoDev) Bangladesh October 26-31, 2009 page-358
- **Haque, S.J.;** Hasan, M.A.; Ahmed , K.M.; Hoque, M.A. 2009; Hydrochemical Characterization of the Lower Dupi Tila Aquifer of Dhaka, Bangladesh. GEOSCIENCE FOR GLOBAL DEVELOPMENT (GeoDev) Bangladesh October 26-31, 2009 Page- 352
- Ahmed, K.M.; Hasan, M.A.; **Haque, S.J.;** Burgess, W.G.; Hoque, M.A.; Rahman, M.M.; Darling, W.G. 2008; A poster on Sustainability of The Lower Dupi Tila

Aquifer of Dhaka City, Bangladesh was published by the collaboration of University of Dhaka and UCL Department of Earth Sciences, Gower Street, London WC 1E 6BT, UK.

UNPUBLISHED

- **Haque, S.J.;** Akther, K. M.; Afroz, T.T. and Huque, A. 2022; Paleoenvironmental and Hydrocarbon Maturation Analysis of The Palynomorphs and Diatoms of Reservoir Rocks. GSB/DATA/UR-918
- **Haque, S.J.;** Akther, K. M.; Hossain, M.F.; Afroz, T.T. and Huque, A. 2018; Pollen Catalogue of Contemporary Dry Flower Samples from Bandarban, Bangladesh by a Standard Sample Processing Technique. GSB/DATA/UR-849
- Huque, A.; Akther, K. M.; **Haque, S.J.** 2016; Study of Standard Pollen Slides of Monsoon Flowers from the Areas of Dhaka and Different Parts of Dhaka City (Botanical Garden, Baldha Garden and Madhumati Model Town), Bangladesh. Phase II. GSB/DATA/UR-806
- Huque, A.; Akther, K. M.; **Haque, S.J.** 2016; Palynological Study of Four Samples from a Borehole of Aftabnagar, Dhaka, Bangladesh. GSB/DATA/UR-802
- Huque, A.; Akther, K. M.; **Haque, S.J.** 2016; Pollen Identification of Eight Samples from Two Boreholes of Aftabnagar and Bashundhara Area, Dhaka, Bangladesh. Part of a project.
- Akther, K. M.; **Haque, S.J.** 2015; Catalogue of Foraminifera in Coastal Sediment of Bangladesh. Poster
- **Haque, S.J.;** Rahman, S.M.H. 2013; Report on Standard Sample Slides from Modern Flowers and it's Aspects in Palynological View in Bangladesh. GSB/DATA/UR-742
- Akther, K. M.; Majlis, A.B.K.; **Haque, S.J.;** Karim, S. 2011; Foraminifera in the Unconsolidated Coastal Sediments. GSB/DATA/UR-688
- Hossain, M. A.; Majlis, A.B.K.; Akther, K. M.; **Haque, S.J.** 2011; Palynological Study of few samples from the coastal parts of Bangladesh. GSB/DATA/UR-687



Date: 20/10/2022

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