



NATIONAL SEMINAR 2027

“Vision 2050: Geology for Sustainable Development, Mineral Resources and Energy Security of Bangladesh”

Organized by

Geological Survey of Bangladesh (GSB)

153, Pioneer Road, Segunbagicha, Dhaka-1000. website: gsb.gov.bd



Date
20–21 March 2027



Venue
International Mother Language Institute (IMLI)
and GSB, Segunbagicha, Dhaka.

CALL FOR PAPERS

Geological Survey of Bangladesh (GSB) is pleased to announce the National Seminar 2027 on

“Vision 2050: Geology for Sustainable Development, Mineral Resources and Energy Security of Bangladesh”

to be held on 20–21 March 2027 at International Mother Language Institute (IMLI) and GSB, Segunbagicha, Dhaka.

The seminar aims to provide a national platform to share and discuss recent research findings, experiences, technological advancements and innovative ideas in the field of geology, mineral resources, energy security, environment, geohazards, marine geology, hydrogeology, mapping and geoscientific data & geospatial technology

We cordially invite researchers, scientists, academics, professionals and students to submit extended abstract/full papers for this national seminar.

SELECTED THEMES FOR NATIONAL SEMINAR 2027

1

Advance Geoscientific Research for Mineral Resources Utilization and Sustainable Energy Security of Bangladesh



Sub-themes

- 1.1 Coal & Peat
- 1.2 Limestone
- 1.3 Rare Earth Elements (REE)
- 1.4 Mineral Sands and Heavy Minerals
- 1.5 Metallic Minerals
- 1.6 Renewable & Geothermal Energy
- 1.7 White Clay and Glass Sand
- 1.8 Hydrocarbon Prospect in Bangladesh

2

Marine Geology, Coastal Dynamics and Geo Resources Potential in Seas



Sub-themes

- 2.1 Marine Minerals and Mining
- 2.2 Hydrocarbon in Bay of Bengal
- 2.3 Shoreline Dynamics
- 2.4 Coastal and Marine Mapping
- 2.5 Sea Level Change
- 2.6 Marine Geophysics and Offshore Geological Exploration
- 2.7 Shoreline Migration and Coastal Dynamics
- 2.8 Gas Hydrates and Oolitic Deposits for Hydrocarbon Accumulation

3

Geohazards, Hydrogeology, Water Resources Management and Climate Change in Bangladesh



Sub-themes

- 3.1 Earthquake Hazard, Seismic Risk and Disaster Resilience
- 3.2 Landslides, Riverbank Erosion and Other Geohazards
- 3.3 Aquifer Delineation, Groundwater Quality and Salinity Intrusion
- 3.4 Climate Change, Sea-Level Rise and Hydrogeological Impacts
- 3.5 Flood, Drought and Water-Related Hazards under Climate Change
- 3.6 Integrated Groundwater Resources Management and Security

4

Geological Mapping and Engineering Geology for Development Planning



Sub-themes

- 4.1 Geological Mapping
- 4.2 Engineering Geology and Geotechnical Site Characterization
- 4.3 Applied Geophysics for Subsurface Investigations
- 4.4 Geochemistry, Geochemical Mapping and Environmental Assessment
- 4.5 Stratigraphy, Sedimentology and Basin Analysis
- 4.6 Petrology, Mineralogy and Rock Characterization
- 4.7 Geoscience for Sustainable Infrastructure and Urban Development

5

Geology for National Development and Government Priorities



Sub-themes

- 5.1 GSB's All Baseline Studies and Assessment for Geoscientific Resources
- 5.2 GSB's National Strategic Priorities for 2026-2030
- 5.3 Sustainable Energy Security the Present Government's Initiatives: The Role of GSB.

6

Technological Advancement in Data Archiving and Surveying Activities



Sub-themes

- 6.1 Geoscientific Database Development, Data Management and Data Sharing
- 6.2 Digital Geological Mapping, GIS and Geospatial Technologies
- 6.3 Remote Sensing, UAV/Drone Technology and Earth Observation
- 6.4 Artificial Intelligence, Machine Learning and Automation in Geoscience
- 6.5 2D/3D Geological Modelling and Subsurface Visualization
- 6.6 Advanced Geophysical and Geochemical Survey Technologies
- 6.7 Geoscientific Data Archiving, Digitization and Knowledge Management

7

Collaboration and Knowledge Sharing with National and International Research Organizations



Sub-themes

- 7.1 Importance of Joint Research and Innovation
- 7.2 Knowledge and Technology Transfer among Organizations
- 7.3 Capacity Building and Research Network Development
- 7.4 Collaborative Geological Research and Knowledge Exchange
- 7.5 Geoscience Data Sharing and Digital Knowledge Management

EXTENDED ABSTRACT/FULL PAPER SUBMISSION DATE



Submission Opens:
20 September, 2026



Submission Deadline:
30 November, 2026

Submission Link:

<https://forms.gle/NrWfeQFdcZSFcjQi9>

Note: A Google account (Gmail ID) is required to upload files through the submission form. Authors facing difficulties with the submission process may contact

gsb.seminar2027@gmail.com



PUBLICATION

Accepted Extended Abstract/Full Paper will be published in the peer-reviewed seminar proceedings volume with an ISSN number.



REGISTRATION

Registration details and further instructions will be announced through the GSB official website under the National Seminar tab.

Submission Related Contact:

Md. Ahasan Habib (Director and Convener)
Md. Arif Parag (Assistant Director & Member Secretary)
Publication and Editing Sub-Committee
National Seminar-2027

Best Regards.

Syed Nazrul Islam (Director and Chairman)

&

Mohammed Masum (Deputy Director and Member Secretary)
National Seminar Committee-2027
Geological Survey of Bangladesh

GEOLOGICAL SURVEY OF BANGLADESH

Energy and Mineral Resources Division
Ministry of Power, Energy and Mineral Resources
Government of the People's Republic of Bangladesh