

## Personal Data Sheet (PDS) of Dr. Reshad Md. Ekram Ali

**Dr. Reshad Md. Ekram Ali**

**Executive Director, MCERC Pvt. Ltd.**

**Former DG of Geological Survey Bangladesh (GSB).**

**B.Sc (Hons), M.Sc. in Geology and Mining, RU.**

**PGD in Applied Geomorphology and Engineering Geological Survey, The Netherlands.**

**Doctor of Philosophy (PhD.) in Environmental Geology, JU.**

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### Working Experience:

#### Executive Leadership & Project Management

- **Institutional Governance:** Served in several high-ranking roles, including **Branch Chief** for multiple divisions (Geological Mapping, Remote Sensing/GIS, Engineering Geology and Hydrology) and providing direct strategic support to the Director General.
- **National Policy & Coordination:** Acted as a member of the **Bangladesh National Building Code (BNBC)** Steering Committee and the **Blue Economy Cell**. Facilitated high-level inter-ministerial coordination with the Prime Minister's Office, Planning Commission and the Ministry of Power, Energy and Mineral Resources.
- **Project Directorship:** Successfully led major international and national initiatives, including the **GSB-NGI (Norway) project** and the **Comprehensive Disaster Management Program (CDMP)**. Managed the full project lifecycle, from drafting Development Project Proposals (DPP) to ensuring institutional accountability and resource optimization.

#### Engineering Geology & Disaster Resilience

- **Seismic Hazard Mitigation:** Spearheaded geological and geophysical mapping across major cities (Dhaka, Chottogram, Sylhet, etc.) to develop **Seismic Zoning Maps** and Earthquake Contingency Plans.
- **Landslide Risk Management:** Pioneered landslide hazard assessment in the Chottogram Hill Tracts. A key achievement includes establishing the **Landslide Early Warning System (LEWS)** in Chottogram and Cox's Bazar (including Rohingya camp areas) in collaboration with **UNDP** and **NGI**.
- **Infrastructure Stability:** Conducted critical feasibility studies and structural evaluations of national infrastructure, including the **Kaptai Dam**, Turag River dykes and the DND project embankments using Ground Penetrating Radar (GPR) and MASW surveys.

#### Technical Geoscience & Field Operations

- **Sub-surface Exploration:** Extensive experience in deep tubewell drilling projects (BWDB), managing lithological logging, geophysical logging and pumping tests to ensure water security in North Bengal.
- **Geospatial Analysis:** Expert in interpreting aerial photography and satellite imagery for surface and sub-surface geological mapping and hazard zoning.
- **Laboratory & Field Testing:** Proficient in a wide array of geotechnical and geophysical methods, including:
  - **In-situ:** SPT, CPT, MASW, PS Logging and Microtremor tests.
  - **Lab:** Grain size analysis, **Atterberg** limits, shear strength and compressive strength testing.

#### Academic & Community Engagement

- **Education:** Contributed to the academic sector through teaching, thesis evaluation and curriculum moderation.
- **Community Resilience:** Conducted socio-economic impact assessments and community consultations to ensure the sustainability of disaster-resilience interventions and alternative livelihood programs.

### Key Technical Proficiencies

Category	Tools & Methods
Geophysics	GPR, MASW, PS Logging, Resistivity, Shallow Seismic Survey.
Geotechnical	SPT, CPT, Grain Size Analysis, Shear/Compressive Strength.
Software/Tools	GIS, Remote Sensing, Satellite Imagery Interpretation.
Specializations	Seismic Zoning, Landslide Early Warning, Hydrogeology, Urban Planning

### Fields of Interest:

Geological Mapping, Environmental Geology, Geo-hazards (earthquake, landslide, waterlogging) Identification and Management, Groundwater Hydrology, etc

**Publications: Total 30.**

**Reference:**

**(Dr. Reshad Md. Ekram Ali)**