

Curriculum Vitae



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- **Passport Nr :** OC8240684, **Nationality :** Bangladeshi, **Born :** 15 November, 1970, **NID:** 5071268618
- **Present Address :** Deputy Director (Geophysics), Geological Survey of Bangladesh, Segunbagicha, Dhaka-1000, Bangladesh.
- **Permanant Address :** S/O Md. Jahangir Alam, Village- Panchora, Police Station- Burichong, District- Comilla, Bangladesh.
- **Academic Record:**

Degree	Organization	Division /Class	passing year	Main Subjects
MSc in GISEO, Specialisation-Earth Resources Exploration. (19 months, 118 ETCS)	ITC, University of Twente, Enschede, The Netherlands.	Overall Grade : 'Good'	2007	GIS, RS, Spatial Statistic, Advance Geoinformation Science & Earth Observation for Problem solving in Earth Resources Exploration, Risk Assessment, Recherche Skill and MSc Thesis.
M.Sc. in Geology	Dhaka University, Bangladesh	2 nd Class (1 st position)	1993 (held 1996)	Applied Geophysics, Hydrogeology, Engineering Geology, Petroleum Geol, Sedimentology etc and MSc Thesis.
B.Sc. (Honours) in Geology	Dhaka University, Bangladesh	1 st Class (5 th position)	1992 (held 1995)	Basic Geological Subjects, Physics, Math, Chemistry.

I have accomplished two MSc theses:

- 'Applicability of H/V Fourier Spectral Ratio of Ambient Vibration in Seismic Microzonation, Case study in Chittagong City, Bangladesh' in ITC, The Netherlands in 2007.
- 'Goelectric Survey and Hydrogeochemical Survey for Subsurface Geology Study in Cumilla Kotwali Thana, Bangladesh' in Dhaka University in 1996.

- **Training record:**

	Subject	Training offered by	Duration
a)	CG5 Autograv Gravimetry, Geosoft Oasis Montaj Gravity & Magnetic Modeling software	Scintrex (Canada) & Data Code (India)	8-20 June, 2014
a)	Active Fault Mapping in Bangladesh.	GSB-CDMP-II joint project	22-29 Dec, 2013
b)	Multichannel Analysis of surface Waves (MASW)	Norwegian Geosciences Institute (NGI)	25-27 Aug, 2013
c)	Geological Investigation and Data Processing (S-Wave velocity determination techniques : MASW, PS logging, Array Microtremor)	CDMP II and ADPC. Trainers: Prof Nachorn and his team from Thammasat university, Thailand.	2-4 June, 2013
d)	Reflection Seismic data processing and interpretation.	Bangladesh Petroleum Exploration and Development Company Ltd (BAPEX), Dhaka.	16-31 July, 2013
d)	2-D Reflection Seismic data acquisition	Bangladesh Petroleum Exploration and Development Company Ltd (BAPEX), Venue: Embedded with field crew in 2D seismic field in Southwestern part of Bangladesh.	30 Sept-1 Oct, 2013
e)	Seismic refraction survey with McSeis 48X	OYO, Japan. Trainer: Dr. Jun Matsue	5 days
f)	Microtremor Array and Single Microtremor Measurements for Site Effect Investigations	ADPC, Trainer: Profesor Nachorn, Thammasat University, Thailand, Venue: Mymensing, Bangladesh.	26& 27 July, 2012
g)	Resistivity Imaging with Syscal Pro	IRIS Instrument, French. Trainer: Mr. Orlando Elite, IRIS, Franch, Vanue: Tong iljtema Field, Bangladesh	5-9 Aug, 2012
h)	Training on Magnetics, Seismic and Electromagnetism	Geometrics Ins, California, USA Vanue: San Jose, California 95131, USA.	24-29 July, 2011
i)	Etna operational Training & Strong Motion Analyzer software	Kinemetrics Inc, California, USA Vanue: GSB, Bangladesh.	1& 2 June, 2011
i)	Project Feasibility Appraisal Study	Planning and Development Academy, Nilkhet, Dhaka	2-6 Aug, 2009

- **Professional experience:**

Before joining GSB in June 1999, I worked for a Danish water well contractor – E. Phil & Son A/S as a Geologist from Sept, 1997 to December, 1998 in their deep water well-field construction project in Coastal towns in Bangladesh. My responsibility was to do geophysical logging, analysis of borehole samples, preparation of lithologs, grain size analyses, well design, monitoring different parameters of drilling fluid during drilling, well development, pumping test execution, water quality analysis and monitoring and preparing well construction reports etc. Depths of wells were about 375 meters.

Since 1999 I have been working in geophysical branch of GSB. I have accomplished the following geophysical field program and prepared scientific reports:

- 1) Gravity and Magnetic Investigations for the Delineation of Subsurface Geology in Parbatipur-Ambari-Chiribandar and adjoining areas of Dinajpur District, Bangladesh. Nov-Dec 2021.
- 2) Regional Gravity and Magnetic Survey for the Delineation of Subsurface Geology in Patnitola-Ronail-Sapahar-Dhamoirhat and adjoining area of Naogaon District, Bangladesh. Nov-Dec 2020. GSB/Data/UR 912.
- 3) Regional gravity and magnetic surveys for the delineation of subsurface Geology in Naogaon-Adamdighi-Santahar-Abadpukur-Raninagar and adjoining areas of Naogaon and Bogura Districts, Bangladesh. Nov-Dec 2019. GSB/Data/UR 661 905.
- 4) The regional gravity and magnetic surveys in Nachole, Gomastapur, Niamatpur and Porsha areas of Chapai Nawabganj and Naogaon Districts, Bangladesh. Jan–Feb 2019. GSB/Data/UR 900.
- 5) Regional gravity and magnetic Survey for the delineation of subsurface geology in Raumary-Rajibpur-Chilmari and adjoining area, Kurigram Districts, Bangladesh. Jan–Feb 2018. GSB/Data/UR 891.
- 6) Subsurface Investigation by Resistivity Imaging and SPT to delineate geotechnical Weak zones in Chittagong City Outer Ring Road Cum Coastal Embankment, Chittagong, Bangladesh. March-April 2016. GSB/Data/UR 811.
- 7) Seismic Refraction Survey for the delineation of Basement depth and exploration of metallic mineral in Mithapukur-Badarganj area, Rangpur, Bangladesh, December 2015-January 2016. GSB/Data/UR 825.
- 8) Detail Gravity and Magnetic Survey for the delineation of the Geometry of Tilakpur coal basin in Santahar-Tilakpur-Bhandarpur area, Naogaon and Joypurhat Districts, Bangladesh December 2014-January 2015.
- 9) Geophysical logging in boreholes CSE-18 and CSE-20 of Barapukuria Coal Mine area, Parbatipur Upazila, Dinajpur District. February 2014. GSB/Data/UR 757, 758.
- 10) Detail Gravity and Magnetic Survey for the investigation of Metallic Minerals in Chakurpara- Masidpur areas of Dinajpur District, Bangladesh in 2013. GSB/Data/UR 761.
- 11) Seismic Refraction Survey for the Delineation of Subsurface Geology in Patnitola Niamatpur and adjoining areas of Naogaon District, Bangladesh in 2012. GSB/Data/UR 728.
- 12) Regional Gravity and Magnetic Survey for the Delineation of Subsurface Geology in Patnitola Niamatpur and adjoining areas of Naogaon District, Bangladesh in 2011-12. GSB/Data/UR 694.
- 13) Seismic Refraction Survey for the investigation of fresh Ground Water Aquifer in Paikgachha – Tala upazila of Khulna district, Bangladesh in 2010. GSB/Data/UR 675.
- 14) Regional Gravity and Magnetic surveys in Hilli – Panchbibi – Joypurhat area of Dinajpur and Joypurhat District, Bangladesh in 2009. GSB/Data/UR 662.
- 15) Detail Gravity and Magnetic investigation to delineate subsurface geology of Badarganj Gondwana Basin, Rangpur District, Bangladesh in 2009. GSB/Data/UR 661.
- 16) Potential Field geophysical investigation (combined Grav, Mag, Electrical surveys) for metallic minerals in Gilajuki-Jarullabad area, Mithapukur, Rangpur in 2008. GSB/Data/UR 613.
- 17) Detail Gravity and Magnetic profiling Surveys in to delineate the boundary of Dighipara Coal Basin, Dinajpur , Bangladesh in 2005. GSB/Data/UR 593.
- 18) Regional Gravity and Magnetic surveys in Gaibandha -Sadullapur-Palashbari-Pirganj area of Rangpur and Gaibandha district, Bangladesh in 2003. GSB/Data/UR 576.
- 19) Geophysical logging (Sonic, Gamma, and Temperature) in GDH 54 drill hole, Barapaharpur, Pirganj in 2002. GSB/Data/UR 547.

20) Compilation of the 14 Gravity and Magnetic anomaly maps of the Rangpur platform area in 2001, (size 15' x 15') , Scale 1: 50,000 in 2001. GSB/Data/UR 541.

21) Geophysical logging (Sonic, Gamma, Temperature) in 5 drill holes in Madhyapara Hardrock Mining Site, Dinapur in October, 2000. GSB/Data/UR 535

Other Field Programs:

- 1) Multichannel Surface Wave Analysis (MASW) and Microtremor data acquisition, processing and interpretation of Uttara 3rd phase area and Bosila Area Dhaka City (under NGI-GSB collaboration program) in August, 2013.
- 2) I have performed Resistivity Imaging, Seismic and Logging data acquisition for the "Training and Assessment of Applicability of Multidisciplinary Techniques in urban and Engineering Geology in Aftabnagar area, Badda, Dhaka city" Organized by GSB and BGR in Nov, 2013.
- 3) I have participated the field program - Active fault identification of Bangladesh applying shallow Seismic Reflection Survey in Tangail (Madhupur), Mymanshing (Dauki fault), Comilla (Mainamati), Sylhet (Jaflong)Organized by CDMP in 2013.
- 4) As a part of my MSc thesis work in ITC, the Netherlands I have conducted a 1 month long geotechnical drilling and microtremor data acquisition field in Chittagong City, Bangladesh in August, 2006.
- 5) As a part of my MSc thesis work in ITC, the Netherlands I have conducted a Geological Fieldwork in Blenheim area of Germany in 2005-2006.