



GSB NEWSLETTER

Newsletter of the Geological Survey of Bangladesh (GSB) | Number 6, Dec 2017

ROLE OF GSB IN NATION BUILDING ACTIVITIES

The Geological Survey of Bangladesh (GSB) is the only national organization entrusted with the responsibilities of geological mapping, investigation and exploration of mineral resources (except oil and gas) and other geo-scientific research works in the country. GSB has already played an important role in the energy and industrial sector by discovering coal, hard rock, peat, limestone, white clay, glass sand, metallic ores and economic mineral deposits in the river sand.

Change of Director General (DG) of GSB

Dr. Mohd. Nehal Uddin was the DG of GSB till January 13, 2017. After his retirement Mrs. Kazi Zabunnessa Begum, Additional Secretary, Energy and Mineral Resources Division, Ministry of Power, Energy and Mineral Resources was in-charge of DG from January 15 to May 13, 2017 and again from May 31 to June 12 2017. Meanwhile, Mr. Md. Harun-Or-Rashid, Joint Secretary and Director General of Hydrocarbon Unit was in-charge of DG from May 14-30, 2017. Mr. Sirajul Islam Khan got the additional charge of DG from June 13 to July 21, 2017. From July 22, 2017 Dr. Reshad Md. Ekram Ali was in the additional charge of DG GSB.

ON GOING GEOSCIENTIFIC ACTIVITIES

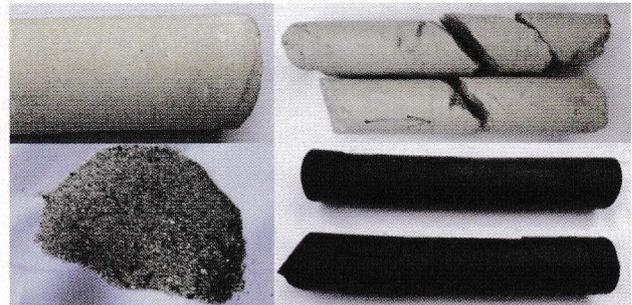
GSB is continuing geo-scientific activities every year for the development of the country. Some special geo-scientific works continued as per emergency requirement of the country. Total 19 research works including one drilling activity under different geo-scientific program have been completed and the briefs of some important ones are mentioned below:

Coastal and Marine Geology branch had completed coastal geological and geomorphological mapping for the determination of terrain characteristics and coastal hazards of the Taltali Upazila of Barguna and Rangabali Upazila of Patuakhali Districts.



Coastal Erosion at Sonarchar, Taltali

A Geological Drill Hole (GDH No. 71) has been drilled to collect stratigraphic data as well as to explore the reserve, extent and economically viable Limestone deposits at Bhagabanpur area, Bilashbari Union, Badalgachi Upazila of Naogaon District by the Economic Geology and Resources Assessment branch in cooperation with the Drilling branch of GSB. During the activity, Limestone has been discovered at a depth of 643 to 672 meter with a thickness of 29 meter. White clay (745-753 m), silica sand (753-771 m) and black carbonaceous shale (811-817 m) have also been found during the drilling.



Core samples of Limestone, White Clay, Silica Sand and Black Carbonaceous Shale from Geological Drilling Hole (GDH No. 71).

Economic Geology and Resource Assessment branch also had completed a field investigation for the assessment of reserve and economic viability of heavy mineral deposits at Andor Char, Shib Char, Tufania Char and Kolagasia Char of Golachipa Upazila under Potuakhali District.

Petrological and mineralogical studies of various Tertiary hill outcrops of Sadar Upazila and adjoining areas of Bandarban District had been performed by Petrology and Mineralogy branch. The objectives were to understand the lithology and to identify the minerals under X-RD, X-RF, Polarizing Microscope.



Collection of Samples for Petrological and Mineralogical Studies

Geo-chemical investigation of water and sediments at Bhangra Upazila of Faridpur District was conducted by Geochemistry and Water Resources branch. The objectives were to identify groundwater aquifers, presence of major, minor and trace elements in groundwater, their concentration and distribution, mineralogical and chemical composition of sediments, geo-environment analysis and finally to aware local people about the present scenario of aquifer quality.

Considering the rapid urban development around the capital, Urban and Engineering Geology branch had conducted urban engineering geological mapping at Rupganj and Arihazar Upazila of Narayangonj District and Sadar Upazila of Narsingdi District.

Landslide Hazard Assessment and preparation of Landslide Zoning Map of Bandarban District had been conducted by Environmental Geology and Natural Hazard Assessment branch. The objectives were to identify the quantity and rate of landslides in different lithologies, landslide prone and affected areas in Bandarban District and to collect information on developed infrastructures and local landslide managements.

Environmental Geology and Natural Hazard Assessment branch also had completed a field investigation for Seismic Microzonation mapping of Comilla City Corporation area.

Regional Gravity and Magnetic Survey in Niamatpur -Porsha-Gomastapur and adjoining areas of Naogaon and Chapainawabganj had been conducted by Gravity and Magnetic Survey branch to identify the base rock and mineral resources and to prepare Bouguer Anomaly map of the study area.

Regular annual testing program of the geophysical instruments conducted by the Geophysical Data Analysis and Equipment Maintenance branch.

Analytical Chemistry branch had performed a field program on chemical characterization and fuel value improvisation of peat discovered at Bijoypur Upazila of Brahmanbaria District, for its best utilization as fuel.

PROJECTS

GSB is continuing a GOB funded project titled "Identification and Economic Assessment of the Valuable Minerals in the River Sands of Bangladesh (IRSM-BD)" with a duration from June, 2016 to June, 2018. During 2016-17 and 2017-2018 FY, ten fieldwork activities had been performed along various rivers and there adjoining areas.



Collection of Undisturbed Sample into the Sampler by SPT Boring.



Collection of Samples by SPT Boring.

The objectives were to identify and assess various minerals like heavy minerals and radioactive minerals. The detailed analyses was being carried out by different laboratories in GSB, Bangladesh Atomic Energy Commission (BAEC) and Bangladesh Council of Scientific and Industrial Research (BCSIR). During the field programs, samples have been collected by SPT boring, Chopping and Pit sections method.

MEMORANDUM OF UNDERSTANDING (MoU) MoU between GSB and GSI

MoU was signed between Geological Survey of India (GSI) and Geological Survey of Bangladesh (GSB). The Deputy Director General and Head of Department (HOD), Geological Survey of India Training Institute (GSITI), Hyderabad on behalf of the Director General, GSI and Mrs. Kazi Zebunnessa Begum, Director General, GSB signed the MoU on 8th April, 2017 at New Delhi, India for "Mutual Scientific Co-operation in the field of Earth Sciences for research and development" in presence of the Honorable Prime Ministers of Bangladesh and India.

MoU between GSB and CGS

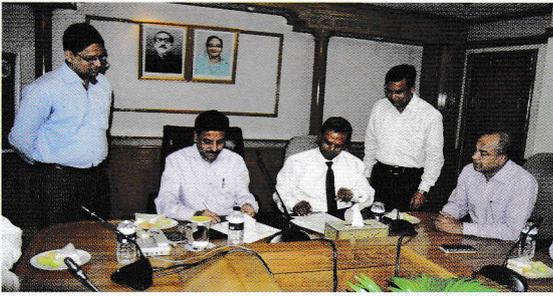
The China Geological Survey (CGS) and GSB signed a MoU for future cooperation in joint investigations and technical exchange in the fields of scientific research related to exploration methods and technology; mineral resources, geological hazards; GIS, geo-tourism and agricultural geology and other related geo-scientific subjects. Deputy Director General of CGS and Director General, GSB signed the MoU on behalf of the respective departments. The MoU makes the passage open for both the organizations and country to share the expertise and views for future geo-scientific research.



Dr. Reshad Md. Ekram Ali, Director General, GSB and Dr. Li Jinfa DDG, CGS were Signing the MoU on Behalf of the Respective Organizations on September 21, 2017.

MoU between GSB and RAJUK

The MoU between GSB and Rajdhani Unnayan Kartripakkha (RAJUK) had been signed on October 10, 2016 at the meeting room of RAJUK. Dr. Md. Nehal Uddin, Director General, GSB and Mr. M. Bazlul Karim Chaudhury, Chairman, RAJUK signed on behalf of the respective organizations. The MoU makes the passage open for both the organizations to share the expertise and views in the field of sustainable urban planning.



Mr. M. Bazlul Karim Chaudhury, Chairman, RAJUK and Dr. Md. Nehal Uddin, Director General, GSB Signed the MoU on Behalf of the Respective Organizations on October 10, 2016.

MoU between GSB and LGED

MoU between GSB and Local Government Engineering Department (LGED) had been signed on December 06, 2016 at the office room of the Chief Engineer, LGED. Dr. Md. Nehal Uddin, Director General, GSB and Mr. Shyama Prosad Adhikari, Chief Engineer, LGED signed on behalf of the respective organizations. The objectives were to create opportunities in exchange of geo-information and expertise in the field of infrastructure planning, urban and rural planning. These two organizations would be able to share the results of analysis and data evaluation related to geo-hazard and climate change issues.



Dr. Md. Nehal Uddin, Director General, GSB and Mr. Shyama Prosad Adhikari, Chief Engineer, LGED Signed the MoU on Behalf of the Respective Organizations on December 06, 2016.

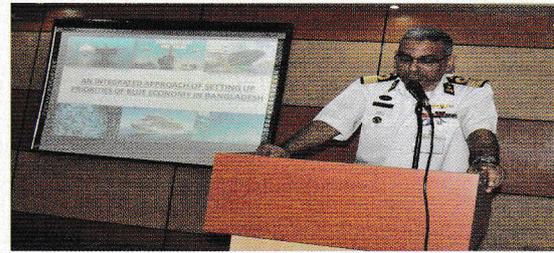
SEMINAR / WORKSHOP / FAIR

GSB participated in the "Power & Energy Week 2016" from December 07-10, 2016, held at International Convention City, Bashundhara, Dhaka. GSB's achievements and progress together with GSB's discovered samples of different economic deposits and the idea of future activities of GSB were presented in the stall.



Officers of GSB along with the Director General in the GSB Stall at "Power & Energy Week 2016".

Commodore A. A. Mamun Chowdhury (N), ndc, psc, BN presented a seminar titled "An integrated approach of setting up priorities of Blue Economy in Bangladesh" organized by Geoscience Awareness and Training Center (GATC) at Saheed Mokhlesur Rahman Seminar Hall of GSB held in August 29, 2017.



Presentation of Commodore A. A. Mamun Chowdhury (N), ndc, psc, BN in GSB's Seminar Hall.

The Innovation Team of GSB presented a seminar titled "Innovation in Public Service: GSB Perspective" organized by GATC on September 18, 2017.



Presentation of Innovation Team of GSB

A training course on various laboratory and technical activities of GSB was organized by GATC for a group of trainee consisting of 28 students from the Department of Petroleum and Mining Engineering (PME) of Military Institute of Science and Technology (MIST). The training sessions were conducted by the officers of concerned branches of GSB from September 25-28, 2017.



GSB Officers along with the MIST Students and Official during the Training.

A day long training was held on October 10, 2017 in GSB conference room for the Innovation/ ICT/ Web team of GSB about web portal update and management. Mr. Shishir Ranjan Roy, IT Support Assistant from a2i (Access to Information programme), Prime Minister's Office conducted the training as the resource person.



GSB Innovation/ ICT/ Web Team Participated the Training about Web Portal Update and Management.

TRAINING PROGRAMME

Local Training

Seventy five officers have been trained in different national training institutes. Some important trainings are listed below:

“Modern Office Management”, “Behavior and Discipline”, “Communicative English Course”, “Use of Bangla in Government official work and Communication”, “IMED Monitoring & Reporting Procedure”, “Transparency, Accountability and Good Governance”, “Public Procurement Management”, “Public Private Partnership”, “Research Methodology”, “Cone Penetration Test (CPT) operation and data analysis”, “Microsoft Project”, “Advance Microsoft Excel”, “Office Management”, “PPR 2006”, “Management Skills for project Executives”, “E-Filing, E-service Road Map 2021”, “Innovation in public service”.

Thirty staff members of the GSB took participation in different training courses at Regional Public Administration Training Centre (RPATC) and in Bangladesh Computer Council (BCC) on Computer Literacy, Basic Behavior and Discipline, Basic Office Management, Basic Economic Management, Computer Application and English Language, Staff Development Course, E-Government Application, Hardware maintenance & Troubleshooting.

Foreign Training / Visit

Mr. Reshad Md. Ekram Ali, Director General of GSB joined a “Conference on Multilateral Cooperation in the Field of Geosciences and Mining Economy Development” at the Xi’an City of China during September 20-23, 2017.

Md. Ahsan Habib, Deputy Director (Geology), started his PhD programme on “Sustainable Energy Management” in Thailand from August, 2016. Mr. Md. Aktarul Ahsan, Assistant Director (Geology), joined University of Strasburg, France during November 15, 2016 to February 28, 2017 to continue his task for the PhD programme on “Seismotectonics of the Bengal-Assam Region, Active Faults and Large Earthquakes (Shillong Plateau, Indo-Burmese fold and thrust belt)”.

Ten other officers of GSB participated in various training courses in Taiwan, Myanmar, Thailand, China, India and Korea. The important courses are “Summer Training course for Slope Land Disaster Reduction”, “Seismic Data Analysis, Hazard Assessment and Risk Mitigation”, “Geo-Oceanography, Biology and Environment”, “Geo-Spatial information Management in Rural Development”, “Coastal Geology, Geo-hazards and Management (Geocoast)”.

Three delegates of Coal India Limited visited GSB and they discussed about the mineral exploration specially coal resources with the Director General and senior Directors of GSB during August 24, 2017.

SPECIAL DAY OBSERVED

GSB observed the “National Energy Security Day” on August 09, 2017 with the banner, festoons in the premises of the head office. Bogura camp office of GSB was also been decorated with the banners.



Dr. Reshad Md. Ekram Ali, Director General at the Gate of GSB to Observe the “National Energy Security Day” on August 09, 2017 along with Other Officers and Staff Members.

GSB participated in a rally on November 25, 2017 to celebrate the recognition of Bangabandhu Sheikh Mujibur Rahman's historic March 7, 1971 speech by the UNESCO as a world documentary heritage.



Dr. Reshad Md. Ekram Ali, Director General along with Other Officers and Staff Members Participated in a Rally on November 25, 2017.

PROMOTION

Mr. Ahmed Ataul Muneem promoted as Director (Chemistry) on November 02, 2016. Mr. Ali Akbar promoted as Director (Geology) and Mr. Md. Riazul Islam as Deputy Director (Chemistry) on January 17, 2017.

RETIREMENT

Dr. Md. Nehal Uddin, Director General started his Post Retirement Leave (PRL) from January 14, 2017. Mr. Sirajul Islam Khan, Director General started his PRL from July 22, 2017. Mr. Fuaduzzaman Khan, Director (Geology) and Division Chief started his PRL from November 20, 2017. Mr. Md. Lokman, Photogrametrist started his PRL from September 01, 2017.

OBITUARY
 Mr. Uttam Kumar Bishas, Driver expired on September 26, 2016 and Md. Asaduzzaman, Fieldman/Office Associate on October 03, 2016 (Innalillahi Rajeun). Both of them were suffering from heart diseases and respiratory complications.

Chief Adviser
 Director General, GSB

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