

Company Profile



Arc Bangladesh Ltd.

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Company Profile

Background

Arc Bangladesh was founded by a group of IT and GIS professionals with impressive track record of providing client services and implementing complex geospatial and information technology solutions and services in Bangladesh. Arc Bangladesh's fields of expertise and services include professional consultancy; software systems development; GIS and geospatial solutions and services; database and data conversion and ICT outsourcing services. Among the industries or sectors in which we have in-depth knowledge and authoritative command includes land, urban growth planning, environment and water management, utility network, infrastructure and government administrations.

Plans, coordinates, and directs activities of workers concerned with conducting aerial surveys using Drone/Quadcopter and preparing topographic materials from aerial photographs and other data: Analyzes survey objectives and specifications, utilizing knowledge of survey uses, such as ecological planning, property and utility mapping. Selects most appropriate and economical survey methods, using knowledge of capabilities of aerial photography and applications of remote sensing. Advises customers and department supervisors regarding flights for aerial photography and plans for ground surveys designed to establish base lines, elevations, and other geodetic measurements. Prepares charts and tables for aerial navigation, to specify flight path, altitude, and airspeed of camera-carrying aircraft. Computes geodetic measurements and interprets survey data from ground or aerial photographs or remote-sensing images to determine position, shape, and elevation of geomorphic and topographic features. Conducts research in surveying and mapping methods and procedures, using knowledge of techniques of photogrammetric map compilation, electronic data processing, and flight and control planning. May direct one or more phases of technical operations concerned with preparing survey proposals, negotiating with clients, scheduling activities, conducting surveys, processing data, reviewing work quality, and training and assigning personnel.

Arc Bangladesh Ltd has the capability to conduct Environmental Impact Assessments (EIAs) and provide Environmental Management Plans (EMP) and can produce Environmental Statements (ESs) for a diverse range of development projects through to providing specific environmental appraisals and technical reports for residential property developments. Our approach is to focus the EIA process upon the key issues and take a proportionate approach to the assessment to minimise project risk and maximise opportunities for success.

Company Profile

By consolidating and capitalizing our valuable experiences, Arc Bangladesh has grown organically to its current strength and reputation. It has been providing diverse professional services through four operation units and at present, is maintaining a payroll of 22 people, consisting of managers, IT specialists, and technical and support staff either on permanent or project based employment arrangement.

One of Arc Bangladesh's strength lies on its ability to assemble a top rate team of experts in the fields of geospatial and information technology, land information management, land use survey and digital cadastral, topographic and geodetic surveys, and urban growth planning.

Arc Bangladesh has a simple and clear mission to help solve problems, enhance productivity and improve customer satisfaction by providing innovative, quality and cost-effective solutions and services in the field of geospatial and information technology applications.

Our Approach and Strategy

Continuing deregulation is causing a revolution for large and small companies alike. The issues are the same; you need to be more responsive, more competitive, and more efficient. The question is how do you do this without the big budgets? While traditional geospatial technology suppliers have spent considerable time and money trying to serve only the very large organizations, who has looked at the problems and concerns from a smaller company view? Well, we have! Our total solution approach eliminates the need for large Information Systems staff, minimizes expenditures and enables quicker start-up (or conversion) and operation. To you, this means a completely integrated solution that solves specific problems for less money.

Arc Bangladesh solutions and services represent the most effective technologies in managing geospatial information and advanced analysis and modeling of spatial data and imagery. We embrace the latest industry standards in data exchange, open systems, relational and object-oriented database technology, graphical user interfaces and distributed computing.

However, what really separates us from others is our emphasis on total customer service. How often in the past have you purchased a product or service only to have the supplier all but disappear once the bank check was cashed! We have a simple but overriding company goal: clients for life - long term client relationships via exceptional service and support. Lastly, we offer some of the most competitive rates in the industry. Highly competitive pricing coupled

Company Profile

with our service and support provides a package that we believe is unparalleled in the industry.

Our unique experience and skills, total solution approach and focus on our clients have enabled us to double revenues every year since our inception.

Company's Legal Information

Official Name: Arc Bangladesh Ltd.

Type: Private Limited Company registered in Bangladesh

Incorporation No. 72689 (731)/08

Trade License: TRAD/DSCC/293947/2019

BIN: 001124105

TIN: 542004228421

ISO 9001: 2015 Certification: 1806060800105

ISO 14001: 2015 Certification: 2007290800201

ISO 27001: 2013 Certification: 2007290800501

Established: 2005 (Incorporate in 2008)

Address:

House No: 6/5 (1st floor), Block-B, Lalmatia

Dhaka-1207, BANGLADESH

Phone: +880-2-9116835,

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Web: www.arcbangladesh.com

Leadership Team

Arc Bangladesh's business is managed by a 3-members board of directors, where the Managing Director of the Board acts as the Chief Executive Officer of the company.

Md. Mostaque Ahamed

Chairman & Head of Data Processing Unit

Mostaque chairs the company's board of directors. He has more than 20 years of professional experience in project management and development of database and application software and database administration. His key qualification includes:

- M.Sc. Applied Mathematics, Dhaka University
- Hons Program in Network-Center Computing, NIIT, 1999
- CBI Training on Software Project Management, DCCI, 2002
- SEI's SW-CMM, Bangladesh Computer Council, 2002
- On-the-job training on Oracle and Visual Basic by TAFS Project.
- Experienced in project management, corporate administration, finance and business management.
- Member, Bangladesh Mathematical Society
- Life Member, Centre for Urban Studies

Md. Shamim Hasan

Managing Director and Head of Geospatial Solution & Services Unit. Shamim is responsible for developing and implementing the

Company Profile

business plans and strategies and building the organization. His key qualification includes:

- More than 20 years professional experiences in MIS, M&ES, GIS, LIS, and other business information systems.
- M.Sc. in Statistics (major in Computer), Jahangirnagar University, Bangladesh, 1995
- B.Sc. (Honours) in Statistics, Jahangirnagar University, Bangladesh, 1994
- Certificate training on Oracle and Visual basic from SSI, Bangalore, India, 2001
- On-the-job training on Gothic Database Server, Data Access Manager and AM/FM system, 2001 by Laser Scan, UK
- MCSD (Microsoft Certified Solution Developer) ID: 2488937
- Trained in GIS, remote sensing and GPS
- Member, Bangladesh Statistical Association
- Specialist in land, environment, natural resources and utility information systems management
- Expert in ArcGIS (desktop, server, web and mobile systems)
- Worked in Bangladesh, Maldives and Vietnam

Zakir Hossain Chowdhury

Director & Head of Software Development Unit

Zakir is responsible for managing all projects and activities relating to software and database application development. His key qualification includes:

- M.C.A (Master in Computer Application)
- B.Sc., Computer Science, Bangalore University, India
- Microsoft and Oracle Certified Developer/Professional
- 15+ years of experience in Software Development.
- Highly experienced in software development and very strong analytical and algorithm development capability
- Experienced in Object Oriented Architecture and Design and Microsoft Dot Net, MS Data Report, Crystal Report, MS Access, SPSS and Software Development Life Cycle.
- Experienced in Android Based Mobile Application Development
- Project documentation/management using Microsoft Project, Visual Source Safe and Visio.
- Member, Bangladesh Computer Society
- Worked in Bangladesh, Denmark and India

Technical Resources

The current staff summary of Arc Bangladesh is:

Staff category	Permanent Staff	Contract Staff
Project management	4	2
Specialist and senior consultants	10	3

Company Profile

Technical and junior consultant	12	2
Admin and support staff	8	-
TOTAL STAFF	34	7

Expertise and services

Arc Bangladesh's diverse expertise enables us to offer state-of-art solutions and services in the following fields:

GEOSPATIAL SOLUTIONS AND SERVICES

- Implementing spatial data management and GIS projects
- Implementing AM/FM projects for utility network systems (gas, water, electricity, telecom)
- Spatial data conversion - scanning/digitizing of paper maps and feature capture from satellite/aerial imagery
- Developing desktop, mobile and web GIS and applications
- Professional and technical staff secondment at client projects

INFORMATION SYSTEM AND SOFTWARE DEVELOPMENT

- Turnkey implementation of software development projects
- Business requirement analysis and preparing specifications
- Desktop/web application development and deployment
- Program coding, debugging, testing using latest industry-standard methodologies and technologies
- System documentation, user manual and training
- Reengineering and migration of legacy software systems
- Web development and hosting of dynamic web sites
- Developing WebGIS and webmap applications

DATA PROCESSING AND DATABASE MANAGEMENT

- Preparing plans and schedules for data processing projects
- Building project, business and survey databases – data models, database, data entry/validation applications
- Data processing, statistical analysis and reporting

SURVEYS AND DATA CAPTURE

- GPS/TS surveys and geo-referencing of maps and imagery
- Cadastral, topographical and landuse surveys
- Engineering route and utility network design surveys
- Facilities, infrastructure and distribution locations mapping
- Field investigation and socioeconomic data collection
- Converting survey data into GIS or CAD formats

OTHER CONSULTING SERVICES

- Land use, natural resources and environmental surveys
- Socioeconomic, community and market survey

Company Profile

- Project scoping, feasibility and design studies
- Project monitoring, evaluation and impact assessment
- Preparation of investment projects proposals suitable for government and international donor funding

Equipment and logistic resources

Office and Working Space

House # 6/5 (1st, 2nd and 3rd Floor), Block-B, Lalmatia, Dhaka-1207

Well-furnished facility (5500 sqf.) at our head-office, with latest ICT infrastructure (hardware, software and communication systems) and office equipment and logistics. We have three separate labs equipped with specialized equipment and software:

- Software Development Unit
- Geospatial Solution and Services Unit
- Data Processing Unit

Logistics Facilities

The existing logistics and utility facilities available in Arc Bangladesh corporate head office are listed below. In addition, a set of modern and latest logistics and utility facilities are being made available in the new Development Centre cum Production Lab at Head office

Available ICT and Surveying Facilities:

Drone Survey Equipment No

DJI Phantom 4 Pro V.2	2 Set
SIRC Quadcopter	2 Set

Laboratory Test Machine Name:

1. Sieve Analysis-2piece
2. Unconfined Compression -1piece
3. Liquid Limit & Plastic Limit-1piece

Equipment List of Sample Collection.

Serial No.	Name of Equipment	Quantity
1	Tripod(10Ft)	30Pice
2	Hammer(63Kg)	5Pice
3	Pump Set	5Pice
4	Spoon	5Pice
5	Istambul	5Pice
6	Chisel	10Pice
7	Pipe(10ft)	60Pice
8	Pulley	5Pice

Company Profile

9	Range(10Ince)	15Pice
10	Back Hammer	5Pice
11	Hose Pipe(35Ft)	5Pice
12	Kodal	5Pice
13	Measurement Tape(100ft)	5Pice

List of Logistics and Utility Facility

Item	Key Tech. Spec.	Qty.
1. Multimedia projector	Clear Color display	2
2. Photocopier	A3 size, 12ppm	1
3. Motor Vehicle	Toyota Corolla X Fielder Toyota Corolla G Toyota SUV	3
4. IP PABX	Yea star S100 (100 Extension)	1
5. Internet Line	TelNet Communication 15mbps	2
6. Telephone lines	Digital lines with ISD/NWD	1
7. Binding machine	Manual ring/spiral binding equipment	1
8. Large Format Lamination Machine	HYMI (Roll Size 40 Inch)	1

Availability of Survey Facilities

Type of Equipment	No. Available
RTK GPS (i80, x900, x90)	5 sets
Total Station (Dadi, Kolida)	5 Sets
Plotter	2 Sets
Echo Sounder (D380)	1 Sets
Sub Meter GPS	3 Pieces

Hardware/Software Facilities:

Description of Equipment	Qty	Technical Specifications
Software Development Unit		
Server	3	HP Proliant; OS: Windows 2012 Server/ Linux

Company Profile

Workstation	25	Intel Core i5/i7 5th/6th/7th Generation
Laptop/ NoteBook	10	HP/Fujitsu/Asus
Networking	1	Router: MicroTik, EdiMax Wireless Router
Laser Printer	6	A3 Size B/W 2 qty A4 Size Color Laser 1 qty A4 Size B/W 3 qty
Scanner	1	Size: A4, Sheetfeed
UPS	3	1500 VA
Geospatial Unit		
Server (Data Server)	2	HP Proliant; OS: Windows 2012 Server.
Laptop/ NoteBook	10	HP/Fujitsu/Asus
Workstation	25	Intel Core i5/i7 5th/6th/7th Generation
Color Printer	3	Size: A3, Technology: InkJet
Laser Printer	3	Size: A4, Resolution: 1200 dpi, Technology: Laser, Memory: 12 MB
Scanner	3	Canon imageFORMULA DR-2010C

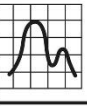
Software

Sl. #	Name of Software	Description of Software
1.	Microsoft Visual Studio.NET 2015	Microsoft Visual Studio.NET 2015
2.	Android Studio	Android Studio 3.0.1
3.	Microsoft SQL Server 2016	Microsoft SQL Server 2016 Standard Edition
4.	Oracle 11gR2/12c	Oracle 11gR2/12c Developer Edition
5.	SAP Crystal Report	Crystal Report for VS 13
6.	DevExpress 2017	Dot Net UX Development Tool
	AspMap	AspMap 4.9
7.	Microsoft Office 2013	Office with MS Project and MS Visio
8.	ArcGIS Advance	30 set
9.	ArcGIS Server	Enterprise Edition

Company Profile

10.	Eardas Imagine, Idrisi	GIS application especially for raster spatial data management facility. Widely used in the field of Land & Agriculture, Oil & Gas exploration etc.
11.	Auto CAD	Widely used industry standard Computer Aided Drafting (CAD) application, specially used for engineering design & drawing.
12.	DAT/EM	Photodramatic Image Processing
13.	ENVI	Geospatial Analytical Software
14.	Statistica	Statistical Data Analysis
15.	SPSS	Statistical Data Analysis

Reseller

1.	 Microsoft	https://www.microsoft.com
2.	 esri	https://www.esri.com
3.	 VDS TECHNOLOGIES GIS & Mapping Components	http://www.vdstech.com
4.	 DAT/EM Systems International	http://www.datem.com
5.	 DevExpress	https://www.devexpress.com
6.	 ENVI	http://www.harrisgeospatial.com/SoftwareTechnology/ENVI.aspx
7.	 StatSoft STATISTICA	https://www.tibco.com/products/tibco-statistica
8.	 SPSS	https://www.ibm.com

Company Profile

A solid account of experiences

Arc Bangladesh is growing by consolidating and capitalizing its experiences. Since inception, we have successfully completed a large number of projects with distinction of quality and innovative approaches. A brief account of the most remarkable and large projects has been provided below:

Purchase of GIS/Satellite Images under Bangladesh Weather and Climate Services Regional Project, Component-B: Strengthening Hydrological Information Services and Early Warning Systems (SHEWS) during the FY 2019-20: GIS/Satellite Image Supply

Client: BWDB

Period: Jan. 2020 – Nov. 2020

Feasibility Study for Construction of Circular Rail Line Around Dhaka City: The specific objectives of the Feasibility Study for construction of Circular Rail Line around Dhaka City are to:

- Find out best possible alignment for the Circular Rail Line from the alternatives.
- Device a pragmatic system to run the Circular Rail Line.
- Identify appropriate technology for Civil, Mechanical, Electrical & signaling Procurement.
- Enumerate specifications for civil construction materials, rolling stocks, Electric traction etc. (i. e. for all Civil, Mechanical, Electrical & Electronics materials and Signaling system.) • Find out whether the project will be economically, socially and financially viable.
- Provide an organizational structure to run the Circular Rail Line.

Client: SIYUAN, China-BETS-EAL

Period: July 2019 - May 2020

Consultancy Services for Consultancy Services for Design, Development & Installation of Multi-Platform GIS based Application for the Management of Distribution Network of DESCO for technical, financial and managerial benefits: Dhaka Electric Supply Company (DESCO) has planned to expedite planning and implementation, renovation/augmentation of the existing distribution system as well as expansion of the same within its jurisdiction, enrich the existing database, ease required access to the database for its stakeholders and finally ensure a better consumer service by introducing GIS based mapping of area under DESCO. The purpose of the services are:

- a) Comprehensive survey of Distribution System Network under DSECO with Preparation of Database of Existing Network Elements and Preparation of short term, mid-term and long-term plan for Renovation and Expansion of Distribution Network up to 2035

Company Profile

- b) GIS Based Mapping for future distribution system network planning using state-of-the-art GIS software having electrical distribution analysis tool.
- c) Introducing a load-flow study through a state-of-the-art load-flow study software for DESCO system at different voltage level for distribution system analysis, the software must have the provision to integrate with GIS and SCADA system.
- d) Preparing database of consumers, poles, power and distribution transformers, all O/H & U/G lines, 132/33 kV & 33/11 kV Sub-stations, 11 kV switching stations, 33kV, 11kV feeders, RMUs, and synchronizing those databases with the existing database systems of DESCO and finally, imposing the synchronized data into the GIS map.
- e) Capacity Building of DESCO Personnel.

Client: DESCO

Period: Aug 2019 - July 2021

Development of “Online Customer Service Management of DESCO”:

Keeping the “Vision 2021” in focus, to meet the goal of ‘Digital Bangladesh’ A2I & the cabinet Division has jointly taken this initiative to assist Government Organizations to identify, prioritize, design and implement the citizen centric services. Government has decided to implement smart pre-payment metering system in place of old system to simplify the bill payment system by using mobile vending, internet, apps etc. DESCO already changed 25% works. Ministry has signed a MOU with Bangladesh Computer Council to develop online bill payment system and taken initiative to develop total customer service management system. The goal is to become a middle-income country with best possible implementation of e-service facilities by all government organization by 2021.

DESCO incorporated under the Companies Act 1994 with its own Memorandum and Articles of Association. The company as a whole owned by Government of Bangladesh and DESA representing government by acquiring 100% shares. At present DESCO has taken initiatives to implement SCADA (Supervisory Control and Data Acquisition) and GIS based network information system by 2020. After completion of these 2 projects, DESCO will advance one step forward in digitalization.

Client: DESCO

Period: Aug. 2019-Aug. 2022

Consultancy Services for Replacement of Existing Distribution System by Underground Distribution Network System under Dhaka Power Distribution Company Ltd. (DPDC): Underground Survey of Distribution System, preparation of Line Sketch, Single Line Diagram, up-

Company Profile

gradation of Database and Plan for Immediate Renovation and Expansion Works of 11 kV level and below (Feeder wise)

Client: DPDC

Period: Dec. 2018-Nov. 2020

Consultancy Services for GIS (Geographical Information System) Based Distribution Network System and Preparation of a 20 years Master Plan for DPDC:

Pre-Survey of Distribution System, preparation of Line Sketch, Single Line Diagram, up-gradation of Database and Plan for Immediate Renovation and Expansion Works of 11 kV level and below (Feeder wise); GIS Based Mapping and Engineering Analysis; Preparation of Enterprise Web GIS and Desktop based GIS; Preparation of application software containing the following module; Viewing and search /querying; Layer Management; User Management; Report generation and printing; GIS Web Based Software and Desktop based Software Functionalities; GIS Survey works; Prepare System specification of hardware & software tools and technology; Preparation of Master Plan; Capacity Building of DPDC Personnel – (i) Local Training (ii) On Job Training (iii) Overseas Training (iv) Pilot project; Support Services

Client: DPDC

Period: Jan. 2017 - Dec. 2019

Topographical Survey Work for "IT Hi-Tech Park at District Level (12 Districts) Level" under Bangladesh Hi-Tech Part Authority (BHTPA)

The broad objectives of this is to be carry out topographical survey as per relevant IS Standards including preparation of drawings in the manner described elsewhere in tender enquiry of

Client: Voyants Solutions Private Limited, India

Period: Jun. 2018 – Sep. 2018

Soil Investigation works for the project "IT - Hi- Tech Park at District Level (12 Districts) Level" under Bangladesh Hi-Tech Part Authority (BHTPA)

The broad objectives of this is to be carry out Geotechnical Investigation works, Physical Layouts of Buildings and Liquefaction Potential Assessment as per relevant BNBC Standards including preparation, submission and vetting of reports in the manner described elsewhere in the documents. Degree of geotechnical investigations should include Laboratory and Field Test along with the analysis of results and recommendation of foundation requirements in the report for the proposed structures to determine nature of construction.

Client: Voyants Solutions Private Limited, India

Period: Feb. 2019-July 2019

Company Profile

Topographical & Cadastral Survey works for the project "BRWTP-S3, Feasibility Study, Detailed Survey, Design, and Supervision in connection with Construction of Passenger Terminals at Shasanghat, Chandpur, Barisal and Narayanganj, Project: Bangladesh Regional Waterway Transport Project 1" in Bangladesh for the client Bangladesh Inland Water Transport Authority (BIWTA).

Client: Voyants Solutions Private Limited, India

Period: Dec. 2018-Feb.-2019

The Feasibility Study for the Development of Dighipara Coal Field at Dighipara, Dinajpur, Bangladesh

RTK Survey to record the Location and Elevations of Exploration Boreholes and Hydro Wells for the Project

Client: Fugro Germany Land GmbH

Period: August 2019

Topographical Survey of 13.35 acres, using drone in photogrammetry technique

Client: Ramky Enviro Services Private Limited, India

Period: November 2019

Physical, Topographical and Demographical Survey for proposed Nazirpur Pourashava under Important Urban Infrastructure Development (IUIDP-II):

A comprehensive development plan is required to address the policy strategies framed in the national plans which means the required land use transformation which will not allow any unauthorized and unplanned development, either in urban or in rural area. To address this issue the Government has already taken initiatives by formulating Master Plan/physical development plans for over 263 Municipalities by mainly LGED, UDD and other development authorities. LGED prepared a Survey report for prepare Nazirpur proposed pourashava. However, rapid urban growth has taken places in the town in last 10 years. The plans need to adjust those previous changes/development works and provide scope for future development interventions. At the same time, these interventions also made heavy demands on urban utilities and services like electricity, water, sanitation, sewerage, garbage disposal, transport, telephone, cables, and social services like health and education, etc. To ensuring all the issues of this sec survey on particular division is important. In this perspective of view to formation of Nazirpur Pourashava these digital survey and smart and latest technology was required.

Client: LGED

Period: Dec 2019 – Feb. 2020

Company Profile

Master Plan Upgradation of Gopalganj Pourashava for Municipal Governance and Services Project (MGSP). Contract Package No: MGSP/PMU/S-38

The objectives of the Project are to:

Find out the development issues and potential of the Paurashavas; make a 20-year development vision for the Paurashavas and Prepare Master Plan Update (Physical Development Plan) in line with the development vision. Plan for the people of the town to develop and update provisions for better transport network, housing, infrastructures for roads, markets, bus terminals, sanitation, water supply, drainage, solid waste management, electricity, education, health, leisure and such other infrastructure facilities for meeting the social and community needs of the poor and the underprivileged groups for better quality of life using high regulation spatial data such as UAV or Lidar. Prepare a multi-sector short and long-term investment through participatory process for living standards by identifying area-based priority – drainage plan, transportation and traffic management plan, environment and disaster management plan, and other need specific plan as per the requirement in accordance with the principle of sustainability. Provide controls for both public and private sector development, clarity and security with regard to future development. Provide guideline for the development considering the opportunity and constraints of future development of Pourashava towns. Prepare a 20-year Master Plan Update to be used as a tool to ensure and promote growth of the town in line with the guiding principle of the Master Plan and control any unplanned growth by any private and public organization. Prepare a 5-year Ward Action Plan comprising priority proposal and to be used as immediate investment of the public sectors as well as the private sector.

Client: LGED

Period: September 2019 – December 2021

Development, Up-gradation and maintenance support of Software Consultancy Services for Municipal Support Unit (MSU) under MGSP:

The Government of Bangladesh intends to enhance the capacity of Urban Local Bodies (ULBs) in development and management of urban infrastructure & services and improvement of municipal governance through the Municipal Governance and Services Project (MGSP) in selected Paurashavas and city corporations. The rapid growth of cities and towns is the greatest challenges of the twenty-first-century' MGSP has undertaken these challenges to assist the ULBs with other stakeholders to enhance the overall governance improvement as well as service delivery through using information and Communication Technology (ICT).

The purpose of this assignment is to provide wider guidelines to design, develop and implement a comprehensive and effective MSU

Company Profile

Software solution, keeping the current desktop software of MSU as a requirement prototype, that is interoperable and compatible fully with modern Framework as well as it will comply standards of other national e-services.

Client: MGSP

Period: Apr 2019- Aug. 2020

Dissemination of Agrometeorological advisories and products to farming communities in different Upazilas and feedback from farmers (Package No: DAE-C11): The overall objective of the project is to strengthen GOB capacity to deliver reliable weather, water and climate information services and improve access to such services by priority sectors and communities. The present project covers Agricultural Disaster Risk Management Through Agro-meteorological Information Dissemination. This will support the awareness building of and dissemination to farmers of a variety of customized Agro-meteorological products and tools that will help them to better manage weather and climate risk in planning and cope with agricultural disaster risks.

Client: DAE

Period: March 2019 – March 2021

Purchase of GIS and Image Processing Software with extensions under Bangladesh Weather and Climate Services Regional Project Component-B: Strengthening Hydrological Information Services and Early Warning Systems during the financial year 2018-19: Supply, Installation, Training and Maintenance of GIS and Image Processing Software with extensions

Client: BWDB

Period: Feb. – Mar. – 2019

Procurement of Updation for Existing Summit Evolution Feature Collection Software (Ver. 6.1) to latest version of ArcGIS Platform: Upgradation for Existing Summit Evolution Feature Collection Software to latest version of ArcGIS Platform

Client: SoB

Period: Jan. – Feb. – 2019

DAT/EM Summit Evolution “FEATURE COLLECTION” Software V7.5: Supply, Installation

Client: HawarIT Ltd.

Period: June 2018

Summit Evolution Feature Collection – ArcGIS Compatible Single User: Supply, Installation

Client: Global Brand Pvt. Ltd.

Company Profile

Period: March 2018

Truck Load Management System with Loader and Driver App: Truckload is assisting truck owners truck drivers, businesses or users who involve in transporting goods from one destination to another within the length and breadth of Bangladesh. Can access the vast information of vehicles on convenient time. In the case with truckers following features should be implemented

Client: ABL

Period: January – December 2018

Consultancy Services for Preparation of a Master Plan for the Rural Electrification (RE) Program in Bangladesh for BREB: Define the physical distribution facilities needed by year and by each PBS, such as distribution lines, primary substations (33/11 kV) and grid substations (132/33 kV), to meet both the growth of the existing system and the connections to the 'unserved' population; Identify the probable locations of new sub-stations, including grid sub-stations, considering future load growth (in two steps of 5-year intervals, totaling 10 years) and present these in PBS key maps; Estimate, year and PBS wise, consumer connection growth; Estimate year wise financial plan for implementation of the electrification development programme; Identify the implications for the financial performance of each PBS given the level of proposed development and recommend measure to enable financial soundness of both the individual PBSs and the BREB system as a whole; Prepare recommendations and submit reports to BREB covering all aspects of the Rural Electrification program for Bangladesh over the next 10 (ten) years; Organize at least 2 (two) workshops for disseminating outcomes of the Master Plan study.

Client: BREB

Period: March 2018 – September 2019

Consultancy Services implementation of “Land Information and Service Centres (LISC)”: Department of Land Records and Surveys established “Land Information and Service Centres (LISC)” in 20 selective Upazilas, for facilitating equal and easy access of the citizens to land information even in the remote area through these designated information centers. The Customer Care Associate Firm will help to manage and operate the 20 LISCs with human resources and logistics, assist the citizen for easy access to land information and mutation process and build capacity of the officials for future sustainability through recruiting a Customer Care Associate Firm.

Client: DLRC

Period: April-June 2017

Company Profile

Consulting Services for Impact Assessment of Integrated Agricultural Productivity Project (IAPP): Develop a detailed rigorous methodology & to be finalized through consultation with PMU; Conduct impact assessment keeping in view the Results Framework/Tools as defined in the Project Appraisal Document (PAD) and Development Project Proposal (DPP); Project interventions assessed on the basis of related indicators (Result Framework) comparing with baseline as well as project targets taking into account of nil the activities by the implementing agencies; Assess the linkages among research and extension agencies; Produce a clear set of lessons learned that can benefit the project for the next phase; Identify major success and weaknesses (if any) of the project implementation and suggest remedial measures and Assess impacts for individual households on food security and livelihood improvement; Quantitative analysis of the shift in cropping pattern and adoption of new production technologies as a result of the project; Quantitative analysis of the improvement in availability and use of quality seed following from the multiple project interventions bearing on this; and Analysis of the operational experience of utilizing the Livelihood Field School model for dissemination of improved crop, fisheries and livestock practices; Analyze and document in a productivity & gender perspective the results and life lessons learned from using the Livelihood Field School (LFS) approach. I) Assess the LFS formation process as well as sustainability of the ITS; Assess LFS training approach; Assess Success of the LFS in which farmers acquired the knowledge and skills to improve their production, income & improve livelihood through application of their gathered knowledge.

Client: BADC, MoA

Period: Apr 2016 – Oct-2016

Preparation of Development plan for Fourteen Upazilas (Package-2):

Digitization and geo-reference of Mauza maps of the project area; Project boundary delineation; Implementation of survey/studies including land use survey, topographic survey, physical survey, slum and squatter survey; GIS database building for several thematic maps e.g. administrative, road network, water bodies, household, drainage, infrastructure, utility services educational institute, health facilities etc.; RTK-GPS survey for installation of BM pillars; Spot level survey, contour generation using RTK-GPS etc.; Traffic volume survey, informal sector survey; drill 98 borehole boreholes with SPT in all investigated area during the preparation of geological/geomorphological maps; Site selection for borehole drilling & numbers, PS logging, MASW and SSMM, Microtremor array and Single microtremor ; Soil sampling: SPT should be conducted at each 1.5m interval depth. When SPT N values exceed 100 times in consecutive 2/3 measurements, SPT can be stopped. Disturbed samples have to be collected during SPT for physical soil test (grain

Company Profile

size analysis, natural moisture contents, unit weight, specific gravity, atterberg test for clayey soil) in laboratory: Cyclic triaxial test for soil liquefaction analysis should be conducted in each study area. Geology Department, Dhaka University has the equipment for cyclic triaxial testing; PS logging analysis: Waveform data, travel curve data with V_p , and V_s are shall be during analysis. Depth interval should be 1m CDMP has provided PS logging equipment to Geology Department, Dhaka University. Consultant can take support from Geology Department for conducting PS logging; Single Microtremor measurement: Measurement should be conducted during night or quiet time for measuring more than 5 minutes continuous recording. The results should be assessed considering geomorphology and soil layers comparing with V_s data.

Client: UDD

Period: Jan 15 - Sep 16

Design and development of MIS/GIS based Ground Water Viewer: This is an interactive mapping application provides access to ground water datasets and live groundwater data logger. The viewer contains several GIS datasets relating to water resources.

Client: Source and Services

Period: Jan. 2014 - Jun 2015

Web based GIS development and Google Earth linking: Development of Web based GIS application and linking relevant GIS/GPS data with Google Earth.

Client: CARE

Period: Aug 14 - Oct 14

Data Entry & Scanning of New LC Establishment forms for 2014 Cohort by Double Entry System Under ROSC-II Project: Data Entry and Scanning of various ROSC Forms of ROSC-II,

Client: LGED

Period: Jul 14 - Sep 14

Data Entry of Project Document: Data entry of 1200 Project Documents

Client: Planning Division

Period: Jul 14 - Nov 14

Develop Food Grain Movement Manual, Development of Least Cost Route, Stock in Transit, Movement Programming Software and Reviewing of Godown and Transit Loss: Stock taking of the researches/studies in the relevant fields; Develop a manual for public food grain movement; Developing movement programming software and least cost route; Assessment of stock in transit; Review the existing provisions for allowable godown and transit losses for

Company Profile

public food grains and to suggest; reasonable allowable limit; Training for the relevant officials who will be primarily responsible for implementation; facilitation of the study outputs;

Client: DG Food

Period: May 14 - July 15

Piloting of Database development, Scanning and data update of social cash transfer program: Database design; Data migration; Form scanning; Photo capture; Data update.

Client: DSS (Department of Somajseba)

Period: Jun 14 - Jul 14

Development of Web-GIS Application on LC Mapping for ROSC-II Project (Phase-I): LC Monitoring through GIS Mapping of ROSC-II

Client: LGED

Period: May 14 - Sep 14

Data Entry & Scanning of New LC Establishment Forms for 2014 Chohot by Double Entry System under ROSC-II: Data Entry and Scanning of various ROSC Forms

Client: LGED

Period: May 14 - July 14

Computerized Data Entry for Farmer's Database Development for Integrated Agricultural Productivity Project (IAPP): Farmer's Database Development for 5 lac farmers of IAPP

Client: BADC, Ministry of Agriculture

Period: Apr 14 - Sep 14

Data Entry & Scanning of LC Profile and Monitoring Checklist for Full Validation for New LC in 100 Upazila (Partial) Under ROSC-II Project: Data Entry and Scanning of various ROSC Forms of ROSC-II

Client: LGED

Period: Dec 14 - Feb 14

Data entry and Scanning of LC Profile, New Student, LC, CMC and Teacher Application Forms by Double Entry System under ROSC-II Project: Design and Development of Database LC Profile, New Student, LC, CMC and Teacher; Design and Development of Forms for Data Entry and Picture Capture for LC Profile, New Student, LC, CMC and Teacher; Design and development of Reports

Client: LGED

Period: Jul 13 - Oct 13

Supply of goods, Software and related services for Sessional Courses: Supply Installation and Training on Sessional Courses

Client: CUET

Company Profile

Period: Jun 12 - Aug 12

Data Entry for ROSC Form-1, ROSC-10 for preparing ACF for 2nd semester (July-December) of 2011: Design and development of integrated web based MIS application system software; Data Entry; Incorporating Business rules to validate the data sets; Design and development of integrated reporting tools of the proposed MIS; Conducting training and Technology Transfer; Conducting UAT, Unit Test, Load Test etc.; Compilation and installation of required statistics and data sets.

Client: LGED

Period: Jan. 2011 – March 2011

SQL Server Based Data Entry Software for ROSC-II: Design and Development of Database, Design and Development of Forms for Data Entry and Picture Capture, Design and development of Reports

Client: LGED

Period: Dec 12 - Dec 13

Customized GIS Training using ArcGIS 10: Customized GIS Training using ArcGIS 10" under the Programme Integrated Geological Mapping of the Chalan beel Area to Unveil the Quaternary Records and Climatic Changes.

Client: Geological Survey of Bangladesh

Period: Aug 12 - Sep 12

Development of online software for monitoring of PLCEHD-2 Project under Bureau of Non-Formal Education: The assignment included the tasks for design and development of integrated web based MIS application system software; data collection, data entry and compilation and installation of required statistics and data sets.

Client: LGED, PLCEHD-2

Period: Sep 2012 – Up to date.

Digitization of City Maps of 41 Ward: The assignment included the tasks for preparation of City Maps using GIS tools (RTK GPS, Satellite Imageries) and Technologies.

Client: Chittagong City Corporation

Period: July 2012 – Up to date.

Reaching Out of School Children (ROSC): The assignment included the tasks for design and development of integrated web based MIS application system software; data collection, data entry (80000 Student profile entry, 560000 Monitoring data update Award Confirmation Form (ACF) preparation) and compilation and installation of required statistics and data sets.

Company Profile

Client: LGED, **ROSC**
Period: Jan 2012 – June 2012.

Data Entry, Archiving and Image processing of various documents of different sections of RAJUK (partly) under Computerization & Management Information System (MIS) in RAJUK (under the package SD2): This contract included 18,000 land plot-related files, scanning of approx. 1.8 million pages and data entry of metadata for all documents and files.

Client: Rajdhani Unnyan Kartipakha (RAJUK), Dhaka.
Period: Sep 2010 – Mar 2011.

Developing a National Management Information System (MIS) for Water Supply and Sanitation in Bangladesh: The assignment included the tasks for design and development of integrated MIS-GIS system software; data collection, data entry and compilation and supply and installation of required GIS layers and map integration technology.

Client: Sector Policy Support Unit, Ministry of LGRD&C
Period: Nov 2010 – Nov 2011.

Preparation of Development Plan of Cox's Bazar Town and Sea Beach up to Teknaf: The tasks included: preparation of base maps; review of previous plans and structures; undertaking physical features, infrastructure, topographic and land use survey, hydrological survey, anthropological surveys and traffic and transport study; spatial organization of physical, socio-economic and cultural aspects; determination of present and future functional structures and formulation of the structure plan; interpretation of higher level frameworks and developing mechanism for improving and guiding development and preparation of master plan; preparation of reports, maps and formulation of projects.

Client: Urban Development Directorate (UDD)
Period: Oct 2009 – Jul 2010

Detection of Latitude, Longitude and Altitude above mean sea level using RTK GPS of 2000 observation wells and also collection of water level data from 310 Upazila under Dhaka, Sylhet, Chittagong, Barisal Khulna and Rajshahi Division. Preparation of location map and final report with all these data information. Client: Bangladesh Agricultural Development Corporation (BADC). Period: Apr 2010 – Jun 2010

Detail Route Survey for Construction of Gas Distribution Network: Conducting topographic survey; preparing index maps showing land acquisition area; preparing list of land use and conducting route inventory for Khulna, Bagerhat, Mongla, Satkhira, Jessore, Magura, Narail, Kustia, Jhenidha, Chuadanga, Meherpur.

Company Profile

Client: Bangladesh Mineral Oil & Gas Corporation (Petrobangla)
Period: May 2008 – Apr 2009

Preparation of Structure Plan, Master Plan and Detailed Area Plan for the Extension of Khulna Master Plan Area upto Mongla Town. The tasks include: digitization and GIS database building of 184 Mauzas; GIS database building of 65,000 structures; DGPS data capturing of 155 BM Points using RTK-GPS; capture of 145,800 Spot level survey and topography; textual data entry and processing.

Client: EPC-Sheltech Consortium, under a contract from Khulna Development Authority
Period: Jul 2007 – Dec 2009

Barisal Divisional Structure Plan, Master Plan and Detail Area Plan Preparation Project: The tasks were: digitization and GIS database building of 72 Mauzas; GIS database building of 55,000 structures; DGPS data capturing of 80 BM Points using RTK-GPS; Capturing 45,800 Spot level survey and topography; textual data entry and processing.

Client: EPC, Urban Development Directorate
Period: Jan 2007 – Jun 2007

Location data capture, data entry and GIS database creation and training: The tasks included were: GPS survey for capturing location of 50,000 points, 13 DRS and 5 TBS of high pressure TITAS transmission line. Converting and integrating location data and building GIS database covering 15 Districts; data entry and production of maps and reports.

Client: TITAS GAS T & D co. Ltd.
Period: Sep 2007 – Dec 2007

Data entry and processing for Reaching Out of School Children (ROSC): The tasks were: data entry of 120,000 forms and updating of 350,000 monitoring data records and processing and producing statistical reports.

Client: LGED
Period: Jun 2007 – Jul 2007