

Profile of the Firm

ECLECTIC is a consulting and construction firm based on Civil, Architectural, Electrical, Plumbing, Environmental and Sub-soil Investigation Engineering. We provide different consultancy services in survey, feasibility study, environmental engineering, apartment building, commercial complex, industrial building, road, steel structures and interior decoration works as per international standard.

Business Highlights	:	Quality Commitment Professionalism Service
Business Goals	:	One team all solution
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Our Services

We can provide complete technical solutions of different types of Construction and Interior works, Design of Residential, Apartment Building, Commercial Complex, Industrial Building, Academic Building, Road, Steel Structure, Assessment and Audit of Energy, Electrical Safety, Fire Safety and Environmental Management as per International Standard specification, Feasibility study and EIA or IEE study for different projects. Above works with description are given below-

1. Construction Works

- Land development
- Civil Construction
- Steel structure fabrication and erection
- Electrical works
- Plumbing and Sanitary Works

2. Supply Works

- a. Steel sheet pile supply
- b. Rail Slipper supply
- c. Lumber and log supply

3. Mechanical Works:

- a. Supply and installation of Thermic fluid boilers
- b. Supply and installation of seasoning plants
- c. Supply and installation of furniture manufacturing machineries

4. Interior decoration works

- Fit out works
- Supply of furniture
- Electrification works
- Supply of floorings
- Supply of doors
- Supply of office furniture
- Supply of kitchen cabinets
- Louvre works

5. Architectural and Engineering design works

A. ARCHITECTURAL DESIGN & DRAWING:

- Landscape
- Master Plan
- Floor Plan Detail
- 3D View of Proposed Building
- Elevation
- Section Detail
- Stair Details
- Column Details

- Wall Details
- Door & Window Detail
- False Slab Position & Detail
- Verandah, Grill, Window (Room & Toilet), Boundary Grill, Main Gate etc detail.
- Top Supervision

B. STRUCTURAL DESIGN & DRAWING:

- Foundation Layout Plan (With Detail measurement)
- Pile/Footing and Column Schedule (with detail measurement)
- Grade Beam Details
- Floor Slab Details
- Lintel, False Slab, Extra Slab Sunshade etc. details
- Column Details
- Stair & Lift Core Details
- UGWR, Soak Well, Soak Pit & Overhead water Tank Details
- All Reinforcement Detail
- All working section Detail
- Top Supervision

C. PLUMBING & SANITARY DESIGN & DRAWING:

- Sanitary Lay-out and Fittings Fixtures
- Toilet Fixture Lay-out Plan
- Sanitary Stacks and Roof Plan
- Working section Details
- Isometric Water Line
- All pipe line diagram details
- Septic Tank, Soak well, Surface Drain etc
- Waste-water and soil pipe details showing position.
- Top Supervision

D. ELECTRICAL DESIGN & DRAWING:

1 Main Power Distribution System

- 1.1 **Sub Station System**
- 1.2 Hv Incoming System
- 1.3 Lv Incoming System (Outgoing)
- 1.4 Avr System
- 1.5 Main Feeder System
- 1.6 Power Distribution System

2 LV Distribution System

- 2.1 Lighting Fixture & Fan System
- 2.2 Lighting & Fan System
- 2.3 Emergency & Exit Lighting System

- 2.4 Receptacle System
- 2.5 Bus Bar Trunking System
- 2.6 Equipment Grounding System
- 2.7 Lightning Protection & Earthing System

3 Extra Low Voltage System

- 3.1 Alarm System
- 3.2 Fire Alarm & Detection System
- 3.3 Interphone System
- 3.4 Telephone System
- 3.5 Public Address System
- 3.6 Lan Piping System
- 3.7 Cctv
- 3.8 Pest Control System
- 3.9 Cable Tv System

4 Special Works

- 4.1 Generator System

5 Outdoor Works

- 5.1 Outdoor Lighting System

6 Incoming Feeder Works

- 6.1 LV Incoming System
- 6.2 Telephone / PA Incoming System

E. MECHANICAL DESIGN & DRAWING:

- Process layout
- Machine layout
- Thermal system design (Boiler, Compressed Air system, HVAC System)
- Utilities like process water line, cold water line, hot water line design of industries
- Condensate return system
- Firefighting system design
- Effluent Treatment Plant Design
- Water Treatment Plant Design
- Rain water harvesting system design
- Top supervision

F. PLAN APPROVAL SHEET:

- All necessary Drawings for Plan approval & related authority.

G. COST & BUDGET:

- Detail Cost Estimation with Materials analysis.

6. Building integrity assessment

Stage 1: Visual Inspection: Scope of work in this phase includes the following-

Task 1: Review existing building documents and proposed building plan

Step 1: Collect necessary documents from client and review the documents

Step 2: Evaluate soil test report

Step 3: Assess whether the building comply with the building design documents provided by client. Analyze in detail foundation, column and necessary structural components of the building.

Task 2: Site visit and visual inspection

Step 1: Visit the site

Step 2: Identification of any structural defect or deterioration of building

Step 3: Report with recommendation

Stage 2: Full investigation:

Full investigation is required if sufficient documentation is not found during stage 1. Full investigation may include the following activities based on the availability of documentation-

1. Tests

- Tensile strength test of rebar
- Rebar scanning
- Concrete Strength test with rebound hammer
- Core test for column and beam concrete strength
- Soil test

2. Preparation of Drawing

- Preparation of as-built layout drawings
- Preparation of as built structural system
- Preparation of as-built foundation system
- Preparation of slab reinforcement details

3. Structural analysis

- Deflection study of the structure
- Study on the adequacy of beam
- Study on the adequacy of column
- Study on the adequacy of footing
- Study on the adequacy of slab

7. Energy audit

- Electricity load profile analysis
- Analysis of Specific energy consumption of the factory
- Identification of saving opportunities in electrical and thermal consumption
- Identification of opportunity for process modification
- Analysis of Carbon footprint and water footprint

8. Electrical and fire safety audit

- Identification of Electrical Hazards (shocks, fire, explosions Etc.)
- Review of protection devices & system of the electrical installation.
- Review of major cables on sampling basis capacity and sizing.
- Survey of factory Lightning Protection System if applicable.
- Survey of Earthing System (Maintenance Aspects).
- Review of Electrical Preventive Maintenance Program through document review.
- Examination of hand tools and Personal Protective Equipment's (PPE) being used by the factory employee's.
- Identification of Hot Spot at Electrical Panels by the state of the art instrument Thermal Imager.
- Review of system handling electrical and fire accidents in the factory.
- Review of awareness amongst factory employees towards Electrical and Fire Safety.
- To check the compliance against legal & statutory requirement (Electrical Safety Aspects) as per the applicable standards as below;
 - o Bangladesh National Building Code- 2006, 2010
 - o NFPA 70: NEC Edition 2011
- Analysis of observation vis-à-vis regulatory requirements and best practices.
- Identification of gaps and gap analysis.

9. Environmental and Eco Audit

- Eco Audit
- Environmental Management system development
- Policy, procedure development for EMS (Environmental Management System)
- Policy, procedure development for solid waste management system
- Training on Chemical management

10. Feasibility study and Business Development

- Technical, financial and market feasibility study
- To prepare the business plan and required documentation to start a business
- To prepare the ROI, payback period, cash flow diagram, investment plan, breakeven calculation, company formation and structure, operating procedure, control procedure, organogram etc.
- Prepare the BOQ, operating expenses and projected revenue plan
- Production plan and sourcing the different raw material for production
- Policy and procedure development for organizational management
- Recruitment and help to prepare the HR policy including salary structure and other benefits etc.

Experience

A few of our completed and ongoing projects and associated with given responsibilities can be summarized as follows-

Construction and Interior Decoration Works

CLIENT	PROJECT NAME AND ADDRESS	TYPES OF WORKS DONE	Year of Execution	STATUS OF PROJECT
Md. Harun-Al-Rashid, Esha Misha Enterprise Ltd.	6 Storied Residential Building House-22, Road-10, Sector-11, Uttara, Dhaka-1230	Civil construction works, electrical works, plumbing works	2010	Complete
AN Trading	Barista Coffee Shop of MGH Group at Hajrat Shahjalal Internation Airport, Dhaka	Interior Decoration and fit out works	2013	Complete
Brothers Furniture Ltd.	Factory Complex in 6 Bigha Area Horindhora, Hemayetpur, Savar	Civil construction works, electrical works, plumbing works	2012-2013	On-going
Sajida Foundation	Construction of Amrao Manush at Maniknagar, Dhaka	Civil construction works, electrical works, plumbing works	2013-2014	On-going
Brothers Furniture Ltd.	Interior Decoration Works of Showroom at Malibagh, Dhaka	Interior Decoration, fit out works, electrification works	2013	Complete
Assurance Furniture	Supply and Installation of Thermic Fluid Boiler at	Civil construction,	2011	Complete

CLIENT	PROJECT NAME AND ADDRESS	TYPES OF WORKS DONE	Year of Execution	STATUS OF PROJECT
Ltd.	Furniture Factory at Ashulia, Savar	utility line works, supply and installation of boiler		

Architectural and Engineering Design Services

SI No	CLIENT	PROJECT NAME AND ADDRESS	TYPES OF WORKS DONE	Contract Year	STATUS OF PROJECT
1	German Society for International Cooperation, GIZ, Dhaka	Approach Road Landscape and Design House 10/C, Road 90, Gulshan 2, Dhaka 1212	Architectural, Structural Design and Supervision	2013	Complete
2	Brothers Furniture Ltd	Factory complex at Hemayetpur, Savar	Architectural, Structural, Electrical and Plumbing Design and supervision	2012-2013	Complete
3	Akij Group	2 steel structures for warehousing tobacco at kushtia	Structural design and construction supervision	2011-2012	Complete
4	Square Knit Fabrics Ltd of Square Group	Composite textile industry at Valuka, Mymensing	Architectural Design and supervision	2008	Complete
5	Nadia Furniture Ltd.	Factory complex at Singair Manikganj	Architectural, Structural, Electrical and Plumbing Design and Construction Supervision	2013	Proposed
6	Dr. Md. Lutfar Rahman Shastho O Shikkha Foundation	Tasor Uddin Hospital, 30 Bedded Hospital at Jaldhaka, Neelphamary	Architectural and Structural Design and Construction supervision	2010	Complete
7	Md. Kamruzzaman	Duplex at Nikunja South, Dhaka	Architectural and Structural Design and Construction supervision	2010	Complete

SI No	CLIENT	PROJECT NAME AND ADDRESS	TYPES OF WORKS DONE	Contract Year	STATUS OF PROJECT
8	BJ Group (Bangladesh-Japan Group)	8 Storied with semi-basement BJ Tower at Baridhara, Dhaka	Architectural and structural design and construction supervision	2013	On-going
9	Kushtia Zilla Samiti	Kushtia Zilla Samity Tower at Kushtia	Architectural and structural design	2013	Proposed
10	Silvegili Properties	Silvegili Dream at Sector#14, Uttara	Architectural and structural design	2013	On-going
11	Confident Development	9 storied residential building, Sriti Tower at Mirpur-13	Architectural and structural design and supervision	2013	On-going
12	Runner Properties	9 storied residential building, Runner Uttara at Sector#6, Uttara	Architectural and structural design and supervision	2013	On-going
13	Md. Jahangir Mollah	15 Storied Commercial Cum Residential at Chandpur Mission Road	Architectural and structural design and supervision	2013	On-going
14	Confident Properties	7 storied residential building, Confident Chaya at Pallabi, Mirpur	Architectural and structural design and supervision	2013	On-going
15	Md. Obaidur Rahman	6 Storied Residential Building at Niloy Housing, Gazipur	Architectural and structural and Utility design and supervision	2013	On-going
16	Torun Kanti Ghosh	7 Storied Residential Building at Bosundhara Residential Area	Architectural and structural and Utility design and supervision	2013	On-going
17	Shoheedul Islam	6 Storied Residential Building at Old Town	Architectural and structural and Utility design and supervision	2013	On-going
18	GK Timber	2 storied steel building at Uttor Badda	Steel structure design, supervision work	2013	On-going

SI No	CLIENT	PROJECT NAME AND ADDRESS	TYPES OF WORKS DONE	Contract Year	STATUS OF PROJECT
19	Hatil Complex Ltd.	Warehouse rack layout design for finished goods and hardware store at Main Factory building at Zirani Bazar, Savar	Rack layout plan, rack design, stock calculation	2010	Complete
20	Nadia Furniture Ltd.	Warehouse rack layout design for finished goods and hardware store at Factory at Merul Badda, Dhaka	Rack layout plan, rack design, stock calculation	2010	Complete
21	ASM Nazmul Hasan	4 Storied Residential Building at Dokkhinkhan, Dhaka	Architectural and structural and Utility design and supervision	2012	Complete

Assessment and Audit Works:

- [Building assessment](#)

SI No	Client/FACTORY NAME	ADDRESS	No of storiiie d	Per Floor Area in Sft	Total Floor Area in Sft
1	German Society for International Cooperation, GIZ Dhaka Office	CRP (Center for Rehabilitation of Paralyse d)- Chapain, Savar, Dhaka-1343, Bnagladesh	2	3,813	7,626
2	Bhuiyan Tower	(CS & SA DAG NO - 3 & 10 (PART),KHATIAN NO - 300 & 189/KAT,JL NO-560,MOUZA - DIAKHALI,VILL - GAMGORA,THANA-SAVAR,DIST - DHAKA)	6	15504.00	93024.00
3	Banimpex Limited	KALMESHWAR MOUZA,BOARD BAZAR, GAZIPUR, DHAKA	7	7056.62	49396.36

SI No	Client/ FACTORY NAME	ADDRESS	No of storiiie d	Per Floor Area in Sft	Total Floor Area in Sft
4	Global Sweater	Gamgora, Savar, Dhaka	4	12000	48000
5	Sweater Cottage	Kamarjuri, Gazipur, Dhaka	2	50000	100000
6	Raina Fashion	Noor Manssion,9/1,Shah Ali Bagh,Mirpur-1,Dhaka-1216.	6	4500	27000

- Key points Covered: Document review, physical inspection, structural analysis to check stability, non-destructive tests etc.
- [CP Assessment:](#)
 - Our core consultant teams are now involved with “Promoting Cleaner Production in textile Washing/Dyeing/Finishing Sector in Phase II Bangladesh”
 - 11 textile industries are covered in this year
 - Key points covered: baseline assessment of resource and energy consumption and identify potential for resource and energy conservation.
- [Eco Audit 2012 of GIZ Dhaka Office](#)
 - Service provided to: GIZ (German Development Cooperation), Dhaka, Bangladesh
 - Key points covered: Environmental Impact assessment, assess the Carbon Footprint, comparison with previous years Impact recommendation on improvement
- [Electrical Safety Audit and Energy Audit](#)

SI No	Factory Name	Location	Types of Works Done	Contract Year	STATUS OF PROJECT
1	DIRD Garments Ltd.	Nagarchar, Rajfulbaria, Savar, Dhaka	Energy Audit	2013	Complete
2	Purbani Fabrics Ltd.	Noorbagh, Kaliakoir, Gazipur	Energy Audit	2013	Complete

SI No	Factory Name	Location	Types of Works Done	Contract Year	STATUS OF PROJECT
3	Libas Textiles Ltd.	Village: Nishchintapur P.O. Mouchak Kaliakoir, Gazipur	Electrical Safety Audit	2013	Complete
4	World Victory Garments Ltd.	Sat Masjid Market, Mohammadpur, Dhaka	Electrical Safety Audit	2013	On-going

Feasibility Study and Business Development:

- [Feasibility Study of New Factory Establishment at Manikgonj](#)
 - Service provided to: Nadia Furniture Ltd.
 - Conducted in 2013
 - Key points Covered: Facility layout, Analysis of financial feasibility, Analysis of Technical feasibility, optimum selection of plant machineries
- [Business Development](#)
 - Joint Venture between Hatil Complex Ltd. of Bangladesh and Smokesolution Aps. Of Denmark to form a new company name “Global Factory Ltd. of Bangladesh”
 - Service provided to: Hatil Complex Ltd.
 - Facilitator: Danish Embassy of Bangladesh
 - Conducted in 2009-2010
 - Key points Covered: business plan, financial feasibility analysis, joint-venture documents preparation, HR policy development and recruitment
- [Business Plan Development](#)
 - Service provided to: Ashic Oncology and Medical Center
 - Conducted in 2011
 - Key points Covered: business plan preparation, financial feasibility analysis, fee structure for different services, HR policy, recruitment policy, salary structure development
- [Feasibility Study of Relocation](#)
 - Service provided to: BAFIOA (Bangladesh Furniture Owner’s Association)
 - Facilitator: Swisscontact-Katalyst
 - Conducted in 2007

- Key points Covered: Facility layout, Production volume increase and cost minimization, management system, optimum selection of mode of relocation based on financial analysis
- [Market level assessment of the furniture sector](#)
 - Service Provided to: Swisscontact-Katalyst
 - Conducted in 2009
 - Key points covered: Survey of 30 furniture manufacturers to assess Market dynamics of the furniture sector in different categories of manufacturers.

Major Clients

Government / Semi-Government Departments

- LGED

International Donor Organizations

- German Society for International Cooperation
- Swisscontact - Katalyst

Industries

- Hatil Complex Ltd.
- Assurance Furniture Ltd.
- Brothers Furniture Ltd.
- Nadia Furniture Ltd.
- Libas Textiles Ltd.

Private Companies

- Sajida Foundation
- BJ Group Ltd.
- Akij Group Ltd.
- Blue Berry Properties
- Runner Properties
- Confident Group
- Silvegili Properties
- GK Timber

List of Key Stuff and their Details

Serial Number	Name	Educational Qualifications	Designations	Experience
1	Professor Dr. Faruque Ahmad Ullah Khan	PhD in Architecture, M. Arch., B. Arch.	Advisor and Principal Architect	More than 40 years
2	Dr. Md. Lutfar Rahman	PhD, DPM (Diploma in Personnel Management), DHA (Diploma in Hospital Administration), MHA (Masters of Hospital Administration), MBBS	Advisor in Hospital Management and HR Projects	More than 40 years
3	Md. Shamsul Alam	B.Sc. in Mechanical Engineering	Advisor and Team Leader of Energy Management project	More than 20 years
4	Engr. M. A. Rashid	M.Sc. in Civil Engineering	Advisor and Team Leader of Building Integrity Assessment Project	More than 20 years
5	Md. Asif Sarwar	B.Sc. in Industrial and Production Engineering	Chairman and Managing Director	More than 7 years
6	Md. Moniruzzaman	MBA, B.Sc. in Civil Engineering	CEO	More than 7 years
7	S. M. Imran Ahmed	B. Arch.	Director	More than 7 years
8	Md. Ali Mul Reza	B. Arch.	Sr. Architect	More than 7 years
9	Rakiba Parven	B. Arch.	Sr. Architect	More than 7 years
10	Md. Iftekhar Ahmed	B.Sc. in Civil Engineering	Sr. Structural Engineer	More than 10 years
11	Engr. Md. Jahangir Alam	B.Sc. in Civil Engineering	Project Engineer (Civil Construction)	More than 16 years
12	Mohammad Azhar Ali	B.Sc. in Mechanical Engineering	Sr. Mechanical Engineer	More than 10 years
13	Md. Tarique Saifullah	B.Sc. in Electrical Engineering	Sr. Electrical Engineer	More than 7 years
14	Md. Foiz Ahmed	M.Sc. in Energy Systems Engineering	Electrical Engineer	4 years
15	Amitav Adhikary	MBA, B.Sc. in Chemical Engineering	Process and Environmental Consultant	4 years

Serial Number	Name	Educational Qualifications	Designations	Experience
16	Md. Wali Ullah Bhuiyan	Diploma in Civil Engineering	Site Engineer	More than 6 years
17	Ahsan Habib	Diploma in Civil Engineering	Site Engineer	3 years
18	Ziaur Rahman	B.Com	Manager Admin. and Accounts	9 years

List of Equipment

Serial Number	Name	Quantity	Unit
Equipment for Construction projects			
1	Mixture machine	1	Nos
2	Vibrator	3	Pcs
3	Welding machine	1	Pcs
4	Rod Cutting machine	3	Pcs
5	Roof hoist	2	Nos
6	Other hand tools	2	Set
7	Compactor	2	nos
Equipment for Energy Assessment and Safety Audit Projects			
1	Clamp-on Energy Meter	1	No
2	Thermo Hygrometer	1	No
3	Temperature gun	1	No
4	Light intensity meter	1	No
5	Ultrasonic leak detector	1	No
6	Power logger	1	No
7	Compact infrared camera	1	No
8	Water quality analyser	1	No
Building Integrity Assessment			
1	Rebar scanner	1	No
2	Rebound hammer	1	No