

Company Profile Of



Architectural & Structural Safety

Faire Safety

RCC & Steel Construction



Electrical Safety

Testing Service

Safety Audit

Head Office: Jaydal Manor, 2nd Floor, 159, Elephant Road, Hatirpool

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TABLE OF CONTENT

S/N	Descriptions
01	Introduction of Corporation
02	Incorporation
03	Details of Single Entity
04	Achievements of EMS
05	Our Large Stakeholders(Local & International)
06	Experience/Achievements Other Than RMG Sector
07	EMS Consistent Service area
08	EMS Training Faculties
09	Our Logistical Equipment's for DEA & Testing
10	Description of Our Completed Design Project
11	Description of Our Completed Construction Project



Introduction of Corporation

EMS Engineering Technologies is one of the leading consultancy, Construction, Audit & Testing Service Company a n d D I F E (Department of Inspection & Factory Establishment of Peoples Republic of Bangladesh) (Infinity Construction) enlisted firm in Bangladesh, working in those services relate to design, construction, safety, compliance and improvement of Quality Health Safety, Environment, Social Accountability and including conformity assessment services, such as verification of quality of materials, equipment and assets, safety of installations, environmental protection and social accountability of businesses as well as verification, assessment, design, drawing, safety assessment of structural Integrity for seismic vulnerability, electrical and fire issues. We had launched business from the year 2011 as partnership firm and independent, objective oriented and committed team of highly qualified Structure, Fire & Electrical Engineers dedicated to set a benchmark in the professional field. We are playing a pioneer role in providing engineering solutions with excellence in our country. We are always innovative and maintain quality in order to meet the needs of our clients as well as our ethical value.

EMS Engineering Technologies started their activities above those sectors since 2012. We have our own Engineering team, who are able to make flexible and readily adjustment to any structural segment work, implementation civil construction, Retrofitting works construction, RCC & Steel Structure works. We offer general contracting, construction management, and preconstruction planning services for projects of all sizes single office fit-up to treatment plants.

We have our own Engineering team, who are able to make flexible and readily adjustment to any structural design, assessment and evaluation for the Structural, Fire and Electrical safety issues, as per Standard of Bangladesh National Building Code (BNBC), ACI Code, National Fire Protection Authority (NFPA), NI (National Initiative by ILO & DIFE), Alliance and RSC. We have a huge experience in audit, assessment and detail with seismic vulnerability assessment of R.C.C and Steel Structures in Industrial & Commercial Sector.



Consultancy Service:

Energy Efficiency Audit
Detailed Engineering Assessment (DEA).
Preliminary Assessment on Structural Integrity, Fire and Electrical Safety.
Design of Green factories to be LEED certified under USGBC.
Architectural & Structural design & Construction of R.C.C. & Steel Structures.
Complete Fire & Electrical solution for new & existing buildings.
Design, Drawing & installation for lightning protection system (LPS), SLD, ELD.
All kind of Electrical testing (Thermal, Insulation, Earth resistance etc.)
All kind of Structural NDT/SDT (Ferroscan , Hammer, UPV, Core cutting & Soil Test)
Corrective Action Plan (CAP) management for structural integrity, fire safety and electrical safety
assessment according to BNBC, RMGP Guideline, NFPA, Alliance, Accord & ILO standard.
Environmental & Social Impact Assessment.
> Testing:
All Kind of Testing for amending RCC Building & electrical safety.
Semi Destructive Test (SDT) i.e. Core cutting,
Non Destructive Test (NDT) i.e. Ultra-pulse Velocity (UPV)
Ferro Scanning of Column, Beam and Slab for Rebar Detection
Rebar test (Tensile strength test
Thermal & Insulation test

We are a 100% employee-owned company whose daily actions are guided by our core values. Our commitment to outstanding job completion, exceptional customer service and superior safety performance has made us a partner of choice in the construction industry. VISION — Our main goal is to set a benchmark in the prof



Our Vision

- our main goal is to set a benchmark in the professional field.
- ◆ To play a pioneer role in providing Engineering solutions with excellence.
- always committed to be innovative and maintain quality in order to meet the needs of our clients.
- ◆ To be caring and trustworthy for our stakeholders like our clients, employees and society in general.

Our Mission

- ◆ To provide International standard services using best talents from home and abroad.
- ◆ To provide peerless services regarding engineering solutions as per our clients' desires.
- We are committed to work professionally and ethically with our honorable clients delivering quality services for the development of viable successful and sustainable projects.
- ◆We are committed to develop high-end technology solutions with constant innovation, continuous Improvement and value added services.
- ◆ To develop and deliver value system to the clients with quality and reasonable cost with a focus on rapid progress.



Our Specialization

We have our own team of highly qualified Structural Engineers & Own design section & Lab Facilities.

Highly experienced & Regular trained up engineering team as per
BNBC (Bangladesh National Building Code)
ACI (American Concrete Institution)
ASTM (American Society for Testing and Materials) & NTPA (National Tripartite Plan of Action) for RMG Guideline.

Having huge working experience in Structural, Electrical and Fire Assessment & Detail Structural Assessment works as per RMG Guideline, BNBC, and NFPA & NTPA standard.

Having modern test instrument for NDT/SDT test as below

Having modern test instrument for Electrical Test as below

□ Professional workmanship.



Details of Single Entity

Name of the company : EMS Engineering Technologies (EMS)

Company of Origin : Bangladesh

Own Address Jaydal Manor, 2nd Floor, 159, Elephant Road, Hatirpool

Dhanmondi, Dhaka-1205

Corporate Address

House No : Jaydal Manor, 2nd Floor, 159, Elephant Road,

Hatirpool, Dhanmondi, Dhaka-1205

TIN Number : 741788612862

Trade License Number : 257137

Tax Area : Dhaka.

Nature of Work Consultancy, Construction & Supplier.

Contact Number : Cell: +8801894800839, +8801894800840

Mail Address : <u>info@ems-et.com</u>, <u>emsengtech@gmail.com</u>

Web www.ems-et.com

Bank Details

Name: EMS Engineering Technologies

Account No: 05533001330

Bank: Bank Asia Ltd.

Branch: Shyamoli, Dhaka.



Our Employees

	Structural Engineer (Civil)				
SL	Position	Qualification	Name	Experience	
1	Chef Engineer	M.Sc. in Civil Engineering	Altaf Khandaker	25 years	
2	Sr. Structural Engineer	M.Sc. in Civil Engineering	Shoriful Islam	16 years	
3	Sr. Structural Engineer	B.Sc. in Civil Engineering	Rabin Mallik	14 years	
4	Sr. Structural Engineer	B.Sc. in Civil Engineering	MD.Sazzzdrr Kadir Masum	14 years	
5	Sr. Structural Engineer	B.Sc. in Civil Engineering	MD.Musa	10 years	
6	Executive Engineer	B.Sc. in Civil Engineering	Khandaker Samin Atif Khan	10 years	
7	Executive Engineer	B.Sc. in Civil Engineering	Jahidul Alam	6 years	
8	Executive Engineer	B.Sc. in Civil Engineering	Saiful Islam	6 years	
9	Executive Engineer	B.Sc. in Civil Engineering	Nor Nobi	5 years	

	Architectural Engineer				
1	Sr. Executive Architect	B.Sc. in Architectural	Md.lbrahim Khondaker	10 years	
2	Asst. Exe. Architect	B.Sc. in Architectural	Arifa Khatun	5 years	
3	Asst. Exe. Architect	Diploma in Architectural	Atik Shikat	4 years	

	Electrical Safety Engineer				
SL	Position	Qualification	Name	Experience	
1	Sr. Executive Engineer	B.Sc. in EEE	Md. Ibrahim	10	
2	Sr. Executive Engineer	B.Sc. in EEE	Md.Mousin Ali	10	
3	Sr. Executive Engineer	B.Sc. in EEE	Md. Abdur Razzak	10	
4	Sr. Executive Engineer	B.Sc. in EEE	Imtiaz ali	10	
5	Executive Engineer	B.Sc. in EEE	Md.Razual Hoque	8	
6	Executive Engineer	B.Sc. in EEE	Shajahan Ali	8	





	Fire Safety Engineer				
SL	Position	Qualification	Name	Experience	
1	Sr. Executive Engineer	B.Sc. in EEE	Md.Faysal Talukdar	11	
2	Sr. Executive Engineer	B.Sc. in EEE	MD.Shakil Asan	9	
3	Sr. Executive Engineer	B.Sc. in EEE	Md. Faruk Hossain Sajon	9	
4	Executive Engineer	B.Sc. in EEE	Md. Mazharul Islam	8	
5	Executive Engineer	B.Sc. in EEE	MD.Tarak Hasan Siddeq	7	

Marketing & Business Development				
Managing Director	MBA	Md.Habibur Rahman	13 years	
Managing Director	B.Sc. in Civil	Samin Atif Khan	13 years	
Executive Officer (BD)	Bachelor in Marketing	Md.Omer Faruk	12 years	
Executive Officer	MBA	Md. Al-Amin	3 Years	
	HR & Adm	in		
Managing Director	MBA	kamrul Hasan Bhuiyan	8 Years	
Sr. Executive Officer	B.Sc. in Computer Since	Md.Moshraf Hosain	5 Years	
Law Officer	Bachelor in Law	Md.Farbaz Hosain	12 Years	
Store keeper	HSC	Md. Zia Uddin	12 Years	



Our Business Morals

- Quality
- Commitment
- Professionalism
- Services

Achievements of EMS

- Infinity Construction has been enlisted as an Inspection Firm for Structural Integration,
 Electrical & Fire safety of Peoples Republic of Bangladesh.
- □ ►MS has successfully completed a large number (more then 35) of Detailed Engineering Assessment (DEA) with Seismic Vulnerability evaluation, Analysis, Layout, Design & Reporting for Structure, Electrical & Fire safety in Industrial, Commercial & Residential Sector.
- ☐ ►MS has successfully completed a large number (more then 20) Construction Project in Industrial, Commercial & Residential Sector.





Our Large Stakeholders

(Local & International)

We have vast working experience with below Local & International Stake holders.









EMS Consistent Service area

- Detail Engineering Assessment (DEA).
- Preliminary Assessment on Structural Integrity, Electrical & Fire Safety.
- Energy Efficiency Audit.
- Corrective Action Plan (CAP) management of Accord, Alliance & DIFE
- Fire prevention & protection system design Installation.
- Complete electrical solution for new & existing building.
- Architectural, Structural & Plumbing design of R.C.C & Steel Structures.
- Construction & Supervision of R.C.C. & Steel Structures
- Design, Drawing & installation for lightning protection system (LPS), SLD, ELD
- All kind of Electrical testing (Thermal, Insulation, Earth resistance etc.)
- All kind of Structural NDT/SDT-Ferro scan, Hammer, UPV, Core cutting & Soil Test.
- Environmental & Social Impact Assessment
- Pile Load Test (PLT), Pile Integrity Test (PIT)

> Testing:

- ☐ All Kind of Testing for amending RCC Building & electrical safety.
- Semi Destructive Test (SDT) i.e. Core cutting,
- Non Destructive Test (NDT) i.e. Ultra-pulse Velocity (UPV)
- Ferro Scanning of Column, Beam and Slab for Rebar Detection
- Rebar test (Tensile strength test
- Thermal & Insulation test
- Pile Load Test (PLT)
- Pile Integrity Test (PIT)
- Soil test







EMS Training Facilities

- □ Factory/Building Load Management.
- □ TOTAL Compliance management for safety issues.

 - ♦ Fire

Our Logistical Equipment's for DEA & Testing

We work with the following necessary Tools given below. All the equipment's have 05 different sets.

Ferro Scanner (Hilti, & Switzerland):









Core Cutter

(with 2,3,4,6,8 inch dia diamond core bits, Hilti DD130 & Cryan, China,& DUSS DIA400W German)



<u>UPV Machine</u>
Ultrasonic Pulse Velocity UPV Instrument from Proceq, Switzerland







Digital Rebound Hammer (from NDT James, USA):



Digital Laser Distance meter





Thermal Camera, Earth & Insulation Test











Instruments for Energy Auditing

Name of Equipment: Flue Gas Analyzer & Stack Air Emission Tester. Brand & Model no: WÖHLER A 550 Industrial (Germany)

- ✓ NOx and SOx emissions measurement with 0.1 ppm resolution
- √ 02. NO. COHiah. NO2. SO2 **Emissions Measurement**
- ✓ In-stack Sinter-filter probe for dust protection
- Rechargeable battery operating time: more than 12 h with Lithium lon power
- ✓ Battery-driven peltier cooler device - more than 4 h off-grid operation time
- √ High-power sample pump for differential pressures up to 300 mbar
- ✓ Built-in logger function with user selectable configuration

7" color-touch screen as intuitive to use as a smart phone



WÖHLER A 550 INDUSTRIAL

Name of Equipment: Infrared Thermal Imager Brand & Model no: Fluke TiS-40 (USA)

- ✓ Quality images 220x165 resolution (36,300 pixels)
- ✓ D:S of 353:1
- ✓ Temperature measurement range -20 °C to 450 °C (-4 °F to 842 °F)
- ✓ Find problems fast with exclusive IR-Fusion® Blending and PIP mode
- √ 3.5 inch, 320x240 LCD
- √ 5 megapixel industrial performance digital camera
- √ Smart battery system lithium ion smart battery with five-segment LED charge level display
- ✓ Email and share images in real time with Fluke Connect®
- √ Stores thousands of images 4 GB internal memory and 4 GB micro SD card









Email: info@ems-et.com,emsengtech@gmail.com. www.ems-et.com

Name of Equipment: Digital Vane Anemometer Brand & Model no: HTC AVM-07

- Air Flow: CMM (m^3/min), CFM (ft^3/min)
- ✓ Air velocity : m/s, km/s, knots, mile/hour
- Air Temperature : Ambient air temperature



Name of Equipment: Power Logger Brand & Model no: HTC PA 170

- Analysis for single phase and balanced 3 phase system
- ✓ True RMS Value (Voltage Current)
- ✓ Large LCD Display with Backlight
- ✓ USB interface
- ✓ Min/Max measurement
- True Power/Apparent power/ power factor measurement
- Data Hold/ Auto ranging / Overflow indication/ Auto power Off





Additional Equipment and Machinery for construction:

Item Name	Quantity	Unit
Earth Excavator (Veku Machine)	2	set
Rope-Hoist	2	set
Mixture machine	2	set
Vibrator machine	3	set
Generator Machine	2	set
Welding Machine	3	set
Centrifugal Pump	3	set
Submersible/ Mud Pump	2	set
Plain Sheet	500	sft
Steel Shutter	500	sft
Steel Props set	500	nos
Hammer drill	5	set
Grinding Machine	6	set
Steel cutting Machine	3	set
Wooden shutter	4000	sft
Bamboo props	600	Nos

Others Necessary Equipment:

- 1. Thickness Gauge
- 2. Digital Camera
- Measurement tape
- 4. Geological hammer
- 5. Steel tape
- 6. Helmet
- 7. Safety apron
- 8. Hand gloves
- 9. Adjustable plier
- 10. Screwdriver set etc.







Some photos of our equipment are during Soil & Testing:









Photos - 1
Soil test by Earth excavator tripod











Photos-2:

Core cutting pictures using 2, 3, 4 inch dia diamond core bits, Hilti DD130 & DUSS DIA 400W core cutter





Photo -3
Ferro Scanner (Hilti PS-200)











Photo -3

UPV Test (Proceq PL-200)





Description of Our Completed Structural, Electrical, Fire & Detail Engineering Assessment Project.

Droject Name:	Project Location:
Project Name:	Project Location:
Prime Cap bd	Uniq Bus Stand Ashulia,Savar Dhaka.
Drainet Name	
Project Name:	Project Location:
Knit Regn (Pvt) Ltd	Poncoboti, Narayangonj.
Project Name:	Project Location:
Giant Star Ltd	Konabari,Gazipur
Project Name:	Project Location:
Fun Factory Ltd.	Uniq Bus Stand Ashulia,Savar
	Dhaka.
Project Name:	Project Location:
Abdullah Fashion Ltd	Mirpur12,Dhaka,Bangladesh
Project Name:	Project Location:
Virtual Bottoms Ltd	Jamgura,Ashulia,Savar,Dhaka
Project Name:	Project Location:
Mangrove Home Tec.	Jamgura, Ashulia,Savar Dhaka.
Project Name:	Project Location:
Pullman Fashion Ltd	Uniq Bus Stand Ashulia,Savar
	Dhaka.
Project Name:	Project Location:
Green World Fashion Ltd	Mogbazar, Dhaka.
Project Name:	Project Location:
Sincere Garments Ltd	Muchak, Dhaka.
Project Name:	Project Location:
Binni Garments	Komulapur Rail Station S,
	Dhaka.
Project Name:	Project Location:
Martin Knit Wear Ltd	Narayangonj BASIC.
Project Name:	Project Location:
Shaikat Knit Wear	Shibo Market Narayangonj
Project Name:	Project Location:
Azad Refit (pvt)Ltd	Shibo Market Narayangonj
Project Name:	Project Location:
Kobir pur irradiation plant	Kaliyakoir , Kobirpur
Project Name:	Project Location:





East Asian Apex	Shibomarket , N.gonj
Project Name:	Project Location:
Ropshi Group	Shibomarket , N.gonj
Project Name:	Project Location:
Kamana Textile	Narayangonj BASIC.
Project Name:	Project Location:
Mercury Knitwear Ltd	Kanchpur,BSCIC
Project Name:	Project Location:
Heyat Fashion Ltd	Mayakanon,Basabo,Mukda
Project Name:	Project Location:
CAPPAKO MG LTD	Uniq Bus Stand Ashulia,Savar
	Dhaka.
Project Name:	Project Location:
J.K Sells & Distribution.	North Badda ,Satarkul
Project Name:	Project Location:
K. Mujumdar Resort	Joydabpur,Gazipur
Project Name:	Project Location:
United Surgical	Shepur,Gazipur





Description of Our Completed Construction Project

Project Name: Dr.Abdul Halim Gong Building	Country: Bangladesh
Project Location:	Approx. Value of Services:
Baitul aman Housing Holding No-754,Road	Tk. 22,00,00,000/-
No-08,Mohammadpur	
Name of Client:	Detailed Description of Project:
Dr.Abdul Halim Gong Building	10 storied with 1 basement apartment building
	Total Approximate Area = 110000 sft.
Start Date:16/12/2015	Completion Date: 05/01/2020
Photos of our Completed Construction Project:	



Project Name:	Country: Bangladesh
Dream Park	
Project Location:	Approx. Value of Services:
Plot No.04, Road No. 03, Kayllan pur, Dhaka.	Tk. 18,00,00,000/-
Name of Client:	Detailed Description of Project:
Mr.Rakib Gong	8 storied with apartment building
	Total Approximate Area = 80,000 sft
Start Date: 18/05/2010	Completion Date: 15/11/2020
Photos of our Completed Construction Project:	





Project Name:	Country: Bangladesh
JK SELS AND DISTRIBUTION.	
Project Location:	Approx. Value of Services:
Feni. Bangladesh	Tk.85,00000/=
Name of Client:	Detailed Description of Project:
Kamal Mujumdar	8 storied with apartment building
•	Total Approximate Area = 19,000 sft.
Start Date: 09/09/2014	Completion Date: 09/09/2021
Photos of our Completed Construction	
Project:	







Project Name:	Country: Bangladesh
10 storied apartment building	
Project Location:	Approx. Value of Services:
Road No.04, Mohamodia Housing Society, Shamoly,	Tk. 7,68,00,000/-
Dhaka	
Name of Client:	Detailed Description of Project:
10 storied apartment building	10 storied with 1 basement apartment building
. 0	Total Approximate Area = 40000 sft.
Start Date: 19/04/20119	Completion Date: 05/09/2020







Project Name: BKC House	Country: Bangladesh
Project Location: Feni, Bangladesh	Approx. Value of Services:
	Tk. 3,68,00,000/-
Name of Client: Kamal Mujumdar	Detailed Description of Project:
	10 storied with apartment building Total
	Approximate Area = 40,000 sft







Project Name: National Knitwears Ltd.	Country: Bangladesh
Project Location: Valuka, Mymensing	Approx. Value of Services: Tk. 81431284/-
Name of Client:	Detailed Description of Project:







Project Name:	Country: Bangladesh
Central Mosque and Madrasah	
Project Location: Kaliya Koir. Gazipur	Approx. Value of Services:
	Tk. 2,80,00,000/-
Name of Client: Abul Kasham	Detailed Description of Project:







	4 storied Central Mosque and Madrasah Approximate Area = 37,000 sft
Start Date: 15/06/2018	Completion Date: 30/12/2020



Description of Our Ongoing Project

Project Name:	Country: Bangladesh
Knit Regn (Pvt) Ltd.	
Project Location: Poncoboti, NarayanGonj.	Approx. Value of Services:
	Tk. 1,85,00,000/-
Name of Client: Mamun Merdha	Detailed Description of Project:
	Single Storied Shed With Mezzanine Floor
	Approximate Area = 25,000 sft







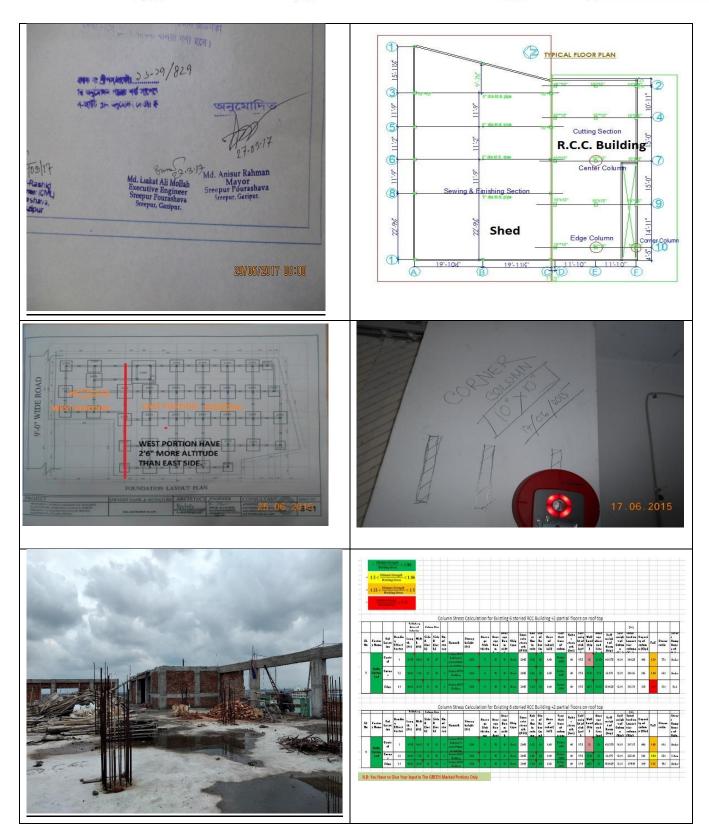
Start Date: 8/10/2021 Completion Date: Ongoing





Some Photos of Our Assessment on Structure Integrity:





Some Photos of Our Assessment Fire Safety:







Some Photos of Our Assessment on Electrical Safety:







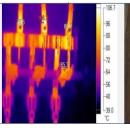


	Severity Level:	Medium
W.K.	Source of Findings:	Photography
4	Time frame	6 Months
2 07 2015 14 29	Color Code	





	Severity Level:	High
ı	Source of Findings:	Photography
	Time frame	1 Week
i	Color Code	
i		





Severity Level:	High
Source of Findings:	Thermography
Time frame	Immediate
Color Code	



Severity Level:	Medium	
Source of Findings:	Photography	
Time frame	6 Weeks	
Color Code		





Severity Level:	Medium
Source of Findings:	Photography
Time frame	6 Months
Color Code	

