



I-Shaped Steel Building & Construction

ISSBC · DHAKA, BANGLADESH

COMPANY PROFILE



COMPANY PROFILE

Engineered in steel. Built to last.

High quality, durable pre-engineered steel buildings for commercial, industrial and residential construction — fabricated with 100% commercial grade red iron.

STEEL BUILDING

R.C.C BUILDING

RETROFITTING

LIGHT STRUCTURE

MATERIALS SUPPLY



INSIDE THIS PROFILE

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ISSBC AT A GLANCE

5,000+

MT ANNUAL PRODUCTION CAPACITY

100%

COMMERCIAL GRADE RED IRON

36

PROJECTS IN OUR CLIENT LIST

23

CONSTRUCTION SOLUTIONS & SERVICES

04

STRATEGIC BUSINESS UNITS



OUR FABRICATION WORKSHOP



01 — COMPANY PROFILE

Durable steel buildings, precisely engineered.

I-Shaped Steel Building & Construction (ISSBC)

supplies high quality and durable pre-engineered steel buildings for commercial, industrial and residential construction.

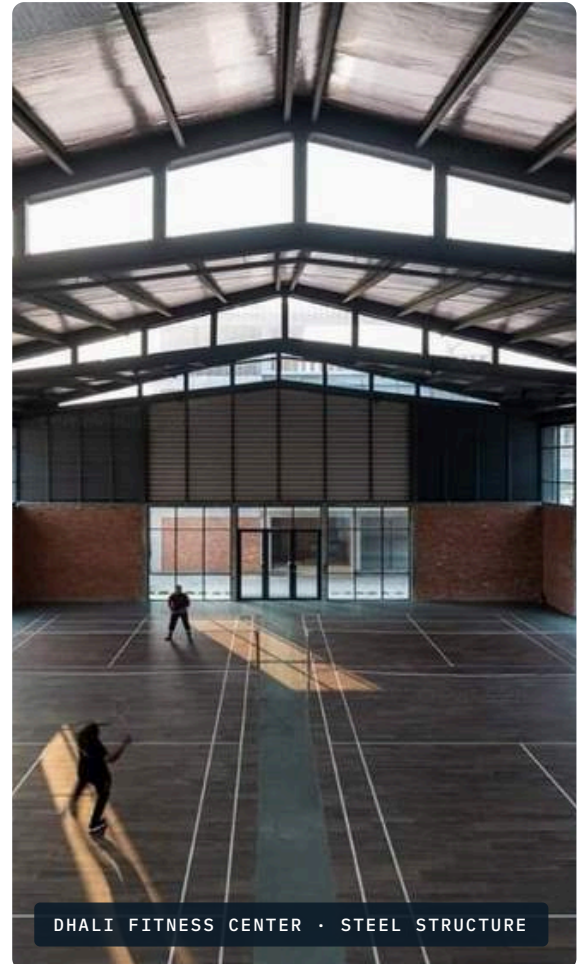
Our steel buildings are fabricated with the highest quality 100% commercial grade red iron. We have worked with clients to plan, design, and build a wide range of facilities utilizing only the highest quality steel building system, precisely engineered.

We can meet any of your design specifications and help realise your architectural imagination. ISSBC is dedicated to providing substantial savings in material costs when compared to similar sized conventionally built structures.

So, whether your project is new or an expansion into a larger facility, I-Shaped Steel Building & Construction (ISSBC) stands ready to help you meet your steel construction needs.

5,000+ MT

Now our annual production capacity is more than 5,000 MT.



DHALI FITNESS CENTER · STEEL STRUCTURE

5,000+MT ANNUAL
PRODUCTION**100%**COMMERCIAL GRADE
RED IRON**23**CONSTRUCTION
SOLUTIONS**36**PROJECTS IN
CLIENT LIST



02 — OUR MISSION & VISION

Our Mission & Vision

Professionalism, honesty and fairness — in every relationship with our customers, employees and vendors.



MISSION STATEMENT

Our Mission

Our mission is to provide workmanship and customer service that maintain the highest level of professionalism and honesty. We keep professionalism and fairness in our relationship with our customers, employees and vendors.

To grow by continually providing useful and significant products, services and solutions to the markets we already serve, and to expand into new areas that build on our competencies and customer interest.



VISION STATEMENT

Our Vision



Our Vision is to be the preferred contractor of choice.

A company that our customers want to work with and our employees are proud to work for.



Professionalism

The highest level of workmanship and customer service.



Honesty

Transparent, trustworthy dealings on every project.



Fairness

With our customers, employees and vendors alike.





03 - INTRODUCTION

One company, four strategic strengths.



REGISTERED COMPANY NAME

I-Shaped Steel Building & Construction (ISSBC)



THE ISSBC TEAM

STRATEGIC BUSINESS UNITS

01 Michael Corporation International

02 Michael Construction & Chemical Co. Ltd.

03 Buildrite Limited

04 Sardar Engineering Services

GET IN TOUCH

BUSINESS ADDRESS



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04 — OUR SERVICES

Why clients build with **ISSBC**.

Every ISSBC project combines precision engineering, prime materials and an experienced team — delivering better buildings, faster, at a competitive price.



01

Precision Manufacturing, Supply & Installation

End-to-end delivery — from the factory floor to final erection on site.



02

Well experienced and qualified engineering team

Qualified engineers who plan, design and supervise every structure.



03

Competitive pricing

Substantial savings in material costs versus conventional construction.



04

Faster construction

Factory-made components arrive ready for quick assembly.



05

Design flexibility

We can meet any design specification you have in mind.



06

Use prime quality materials

100% commercial grade red iron and prime materials.



07

Lower maintenance cost

Steel resists rust, rot, termites and mildew.



08

Energy efficiency

Easy integration of modern insulation systems.



09

Longevity

Durable, resilient structures built to last.



10

Environmentally friendly

Steel is one of the most recycled materials on Earth.



11

On time delivery

Committed schedules, delivered as promised.

Ready to start your project?

Call us today

01859-082028

ishapedbd@gmail.com



05 – CONSTRUCTION SOLUTIONS SERVICES

Complete construction solutions under one roof.



01

R.C.C Building

Design,
Construction,
Management &
Supervision



02

Steel Building

Design,
Fabrication &
Erection



03

Retrofitting

R.C.C & Steel
Structure



04

Light Structure

Light Structure
Building
Construction



05

Materials Supply

R.C.C & Steel
Building

Specialty works, chemicals & finishes

18 SPECIALISED SERVICES

06 Epoxy Anchoring Supply &
Application

07 Diamond Core Drilling

08 Water & Damp Proofing

09 Water Proofing Membrane

10 Water Proofing Coating
Treatment

11 PU Flooring Treatment

12 Epoxy Flooring Treatment

13 Floor Hardener Treatment

14 Non-shrink Grouting

15 Structural Crack Repair/Injection

16 Cementitious Fireproofing

17 Polished Concrete

18 Fire Separation

19 Micro-Concrete

20 Bonding Agent

21 Concrete Admixtures

22 Glass Fabrication

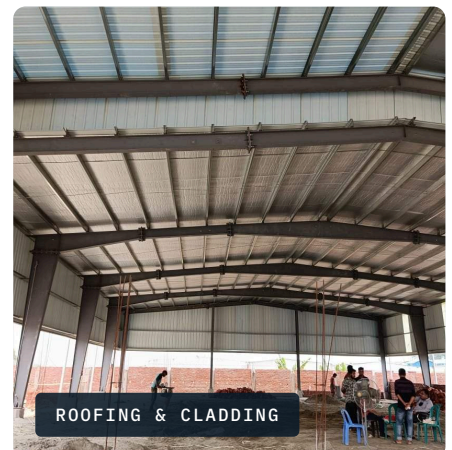
23 Aluminum Composite Panel Work



FABRICATION



STEEL ERECTION



ROOFING & CLADDING



PEB

SECTION 02 · KNOWLEDGE

Pre-Engineered Steel Buildings.

The history, advantages, components, applications and design codes behind modern pre-engineered steel construction — the system ISSBC designs, fabricates and erects.

06	History of Pre-Engineered Buildings	09
07	Why Choose Pre-Engineered Steel Building	10
08	Key Components & Diagram	12
09	Common Applications	14
10	Applicable Design Codes	15



06 – HISTORY OF PRE-ENGINEERED BUILDINGS (PEBS)

A century of steel innovation.

The history of Pre-Engineered Buildings (PEBs) is a narrative of industrial innovation, standardization of steel construction, and technological advancements that transformed building methods from purely custom, on-site labor to efficient, factory-controlled assembly.

The Timeline of PEB Development

PERIOD · KEY DEVELOPMENTS · IMPACT

01 Late 19th – Early 20th Century

KEY DEVELOPMENTS

Industrial Revolution, mass production of steel, introduction of standardized steel components.

IMPACT ON PEBS

Foundation for metal buildings.

02 World War II Period

KEY DEVELOPMENTS

Urgent need for rapid, durable construction (e.g., military barracks, hangars, Quonset huts).

IMPACT ON PEBS

Drove demand for standardized, quickly erectable steel structures.

03 Post-War Boom (1950s–1960s)

KEY DEVELOPMENTS

Surplus steel production capacity shifted to civilian use; establishment of dedicated PEB manufacturers.

IMPACT ON PEBS

Rapid adoption for warehouses, factories, and agricultural uses.

04 Late 20th Century (1970s–1980s)

KEY DEVELOPMENTS

Introduction of sophisticated engineering principles and design software.

IMPACT ON PEBS

Improved efficiency, versatility, and cost-effectiveness.

05 Modern Era (1990s–Present)

KEY DEVELOPMENTS

Widespread use of Computer-Aided Design (CAD), automated fabrication, and advanced materials.

IMPACT ON PEBS

Enabled complex architectural designs, multi-story buildings, and increased market share (over 70% of commercial/industrial buildings use PEB methods in some markets).

70%+

MODERN ERA (1990S–PRESENT)

Over 70% of commercial/industrial buildings use PEB methods in some markets.



07 — WHY CHOOSE PRE-ENGINEERED STEEL BUILDING

Why choose pre-engineered steel?

Pre-engineered steel building (PEB) is often preferred over conventional construction due to a range of compelling advantages related to cost, efficiency, durability, and design flexibility.

Here are the primary reasons why developers and businesses choose PEBs:

50%

Up to 50% shorter construction time compared to traditional methods

01 Speed of Construction

- Faster Project Completion:** Components are fabricated in a factory simultaneously while foundation work is happening on-site. This parallel process can cut construction time by up to 50% compared to traditional methods.
- Quick Erection:** The components arrive pre-cut, pre-punched, and ready for assembly, significantly speeding up the on-site erection process.

02 Cost-Effectiveness

- Material Savings:** The engineering process optimizes steel use, minimizing waste.
- Reduced Labor Costs:** Less specialized on-site labor is required for assembly, as most fabrication is done in a factory setting.
- Predictable Pricing:** Because most components are standardized and manufactured under controlled conditions, material costs are usually fixed early in the project lifecycle, reducing budget overruns.





07 — WHY CHOOSE PEB (CONTINUED)

03 Durability and Longevity

- I Resilience:** Steel is inherently durable and resistant to many common construction hazards.
- I Weather and Pest Resistance:** Steel is non-combustible and resistant to rust, rot, termites, and mildew, which often damage traditional wood or concrete structures.
- I Low Maintenance:** PEBs often require less maintenance over their lifespan compared to other building types.

04 Design Flexibility and Customization

- I Large Clear Spans:** The structural design of PEBs allows for massive open interior spaces without the need for numerous internal supporting columns, which is ideal for warehouses, aircraft hangars, and sports arenas.
- I Scalability:** Buildings can be easily expanded later by adding new bays or sections.
- I Architectural Versatility:** Modern PEBs can incorporate various exterior finishes (brick, glass, concrete panels) to meet aesthetic or architectural requirements.

05 Sustainability and Energy Efficiency

- I Recyclable Materials:** Steel is one of the most widely recycled materials on Earth, making PEBs an environmentally friendly choice.
- I Energy Efficiency:** PEB designs easily integrate modern insulation systems, leading to highly energy-efficient buildings that reduce operational heating and cooling costs.

IN SUMMARY

The decision to use a PEB often boils down to a desire for a reliable, cost-effective, and rapidly deployed construction solution that doesn't compromise on durability or functionality.





08 — KEY COMPONENTS

Anatomy of a steel building.

The structural system of a PEB is composed of several key elements:

[FULL DIAGRAM ON PAGE 13 →](#)

Primary Frames

01

These are the main rigid steel frames, typically I-shaped columns and rafters, engineered to support the building's load and transfer it to the foundation.



Secondary Members

02

These include cold-formed Z- and C-shaped purlins (for roofs) and girts (for walls), which provide support to the panels and help with stability.



Roof and Wall Panels

03

These are usually profiled metal sheets (often coated for weather resistance) that form the building envelope. They can be insulated for energy efficiency.



Bracing Systems

04

Diagonal bracing, often made of cables or rods, is used in the roof and walls to provide resistance against lateral forces like wind and seismic activity.



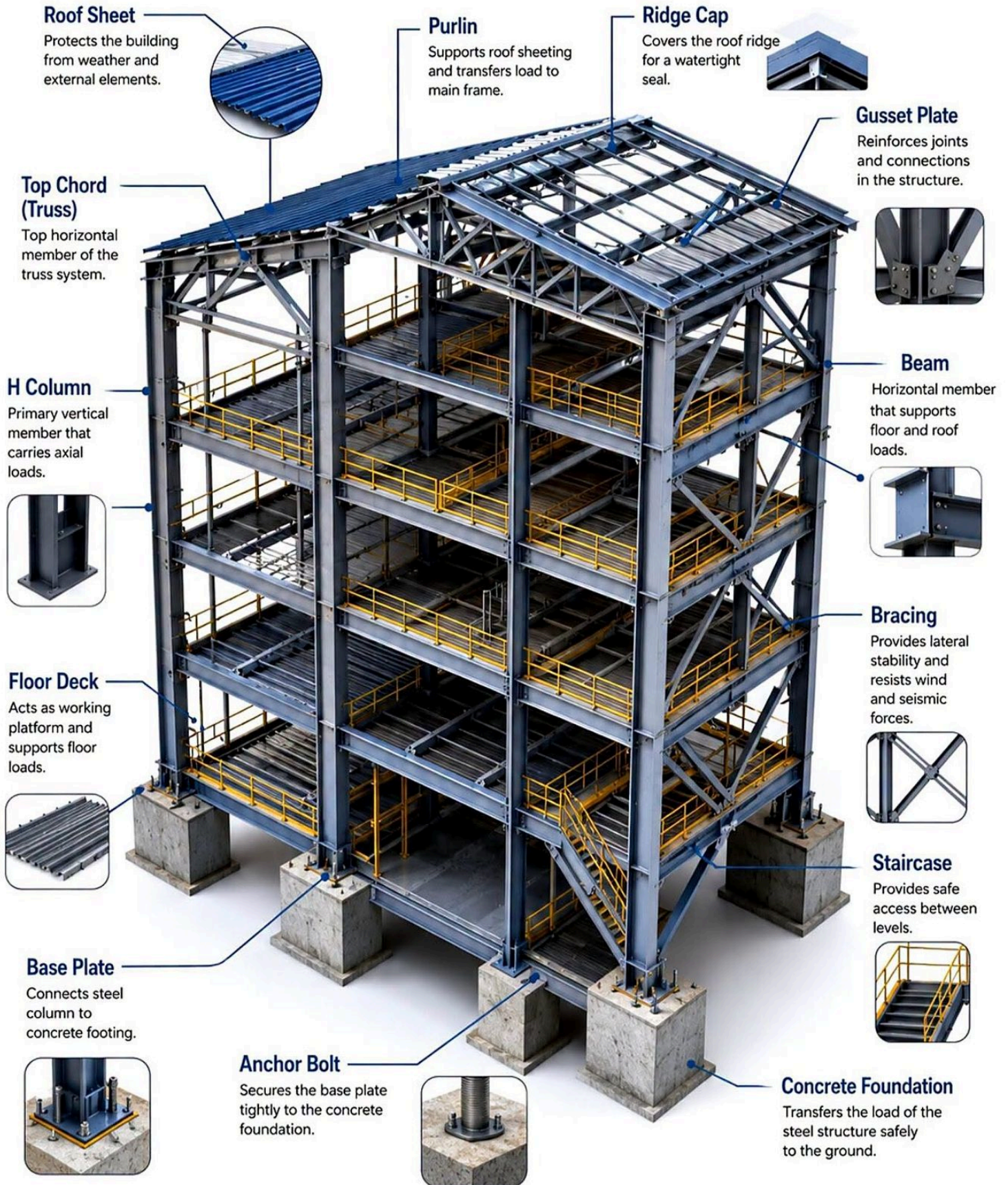
Accessories

05

Additional non-structural components like skylights, ventilators, doors, windows, canopies, and mezzanine floors are integrated into the design to meet specific functional and aesthetic requirements.

Steel Structure Components

— Key Elements of Steel Building Construction —



08 — KEY COMPONENTS • DIAGRAM

Steel Structure Components

Key elements of steel building construction — from roof sheet and ridge cap to base plate, anchor bolt and concrete foundation.



09 — COMMON APPLICATIONS

One system, endless applications.

Due to their versatility, PEBs are used across a wide range of industries:

- I** Industrial
- I** Commercial
- I** Institutional
- I** Agricultural
- I** Aviation & Sports



Industrial Facilities

01

Warehouses, manufacturing plants, and workshops benefit from large clear spans and durability.



Commercial Buildings

02

Retail stores, office complexes, shopping centers, and hotels use PEBs for their fast construction and aesthetic flexibility.



Institutional Structures

03

Schools, hospitals, community centers, and government facilities are often built using PEBs for cost and time efficiency.



Agricultural Buildings

04

Barns, equipment sheds, and livestock shelter benefit from the low maintenance and durable nature of steel.



Aviation and Sports

05

Aircraft hangars and sports complexes/gyms utilize the open-space design capability of PEBs.



10 – APPLICABLE DESIGN CODES FOR STEEL BUILDING

Engineered to global standards.

International and National Design Codes

The most widely used and recognized codes for steel building design globally include:

1. North American Standards (USA, Canada, Mexico)

These are very commonly used worldwide, especially in the pre-engineered building (PEB) industry.

AISC 360**Specification for Structural Steel Buildings**

(American Institute of Steel Construction). This is the primary standard for the design of hot-rolled structural steel buildings.

AISC 341**Seismic Provisions for Structural Steel Buildings**

Used specifically for designing structures in seismic regions.

AISI S100/S240**North American Specification for the Design of Cold-Formed Steel Structural Members**

(American Iron and Steel Institute). This is crucial for designing secondary members like purlins and girts in PEBs.

ASCE/SEI 7**Minimum Design Loads for Buildings and Other Structures**

(American Society of Civil Engineers). This foundational code determines the required loads (wind, snow, seismic, live, and dead loads) that the structure must withstand.

**APPLICABLE CODES IN
BANGLADESH****BNBC
2020**

In Bangladesh (Dhaka context), the governing regulatory document is the **Bangladesh National Building Code (BNBC) 2020** (also sometimes referenced as BNBC 2012).

The BNBC 2020 acts as the overarching legal document, which then explicitly references and adopts major international codes for specific material designs:

- I** The BNBC mandates that steel structures should be designed following internationally recognized codes of practice, typically defaulting to **AISC** or equivalent standards, along with **ASTM** standards for material specifications.
- I** Welding procedures must typically conform to the **AWS D1.1** Structural Welding Code–Steel standard.



11 - CLIENT LIST

Trusted by **clients** across Bangladesh.

36

PROJECTS LISTED

636,620

SFT OF STRUCTURES

590+

TONS OF STEEL WORK

25

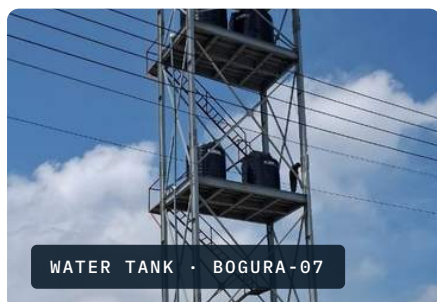
CLIENTS & ORGANISATIONS

SL. NO.	NAME OF CLIENT	PROJECT TYPE	PROJECT LOCATION	PROJECT VOLUME
01	Advance Development Ltd.	Mosque	Dhaka	2,500 Sft
02	Build Asia	Crane Structure	Savar	5 Tons
03	LGED Project	Shed	Madaripur	3,500 Sft
04	BDG-Magura Group	Walkway & Stair	Gulshan, Dhaka	14.5 Tons
05	Paramount Textile Mills Ltd.	Retrofitting	Mawna	32.00 Tons
06	Ayesha Washing Ltd. (Palmal Group)	Retrofitting	Savar	15.5 Tons
07	Macca Madina Spinning Mills	Shed	Mawna	32.00 Tons
08	Bangladesh Land Port Authority	Shed	Benapole, Jessore	37.28 Tons
09	Sami Textile	3 Storied	Madhabdi, Narsingdi	125.00 Tons
10	Nourish Poultry & Hatchery Ltd.	Shed	Modupur-04	80,000 Sft
11	Nourish Poultry & Hatchery Ltd.	Shed	Sagordighi-05	22,500 Sft
12	Nourish Poultry & Hatchery Ltd.	Shed	Narayenpur-01	30,000 Sft
13	Nourish Feeds Ltd.	Shed	Modupur-05	90,000 Sft
14	Blues Communication	2 Storied	Dhaka	35 Tons
15	Nourish Feeds Ltd.	Shed	Bogura-08	48,000 Sft
16	BHRC Ltd.	Shed	Bashundhara R/A, Dhaka	45 Tons
17	Benfix Elevator Ltd.	Lift Core	Dhanmondi R/A, Dhaka	8 Tons
18	Nourish Poultry & Hatchery Ltd.	Shed	Bogura-09	56,000 Sft



11 – CLIENT LIST (CONTINUED)

SL. NO.	NAME OF CLIENT	PROJECT TYPE	PROJECT LOCATION	PROJECT VOLUME
19	Akij Jute Mills Ltd.	Shed	Khulna	15,300 Sft
20	Shapnow Super Shop	Shed	Khulna	5,100 Sft
21	AB Industries Ltd.	Shed	Khulna	23,600 Sft
22	Madainaple Fashions Craft Ltd.	Steel Lift Core	Ashulia, Dhaka	20 Tons
23	Nourish Poultry & Hatchery Ltd.	Shed	Bogura-07	44,000 Sft
24	Nourish Feeds Ltd.	Canopy	Trishal-02	1,600 Sft
25	Nourish Poultry & Hatchery Ltd.	Shed, Light Structure	Bogura-08	55,000 Sft
26	Agro Fruits & Vegetables Ltd.	Shed	Chapai-01	6,000 Sft
27	Nourish Poultry & Hatchery Ltd.	Steel Stair	Bogura-02	18 Tons
28	Rosr Agro Ltd.	Shed	Bogura	56,000 Sft
29	Jahir Group	Shed	Dhaka	25,000 Sft
30	Nourish Feeds Ltd.	Truck Shed	Trishal-2	6,000 Sft
31	Nourish Poultry & Hatchery Ltd.	Shed	Bogura-07	66,000 Sft
32	East Bengal Regiment (EBRC)	Steel Work	Chittagong	18 Tons
33	Nourish Feeds Ltd.	Steel Tower (108 Ft)	Cumilla	65 Tons
34	Nourish Tower	AC Outdoor Structure (14th Floor)	Uttara, Dhaka	45 Tons
35	Akij Venture	Rock Wool Sandwich Panel Wall	Akij House, Dhaka	520 Sft
36	Jupiter Hospital	Steel Work	Uttara, Dhaka	75 Tons





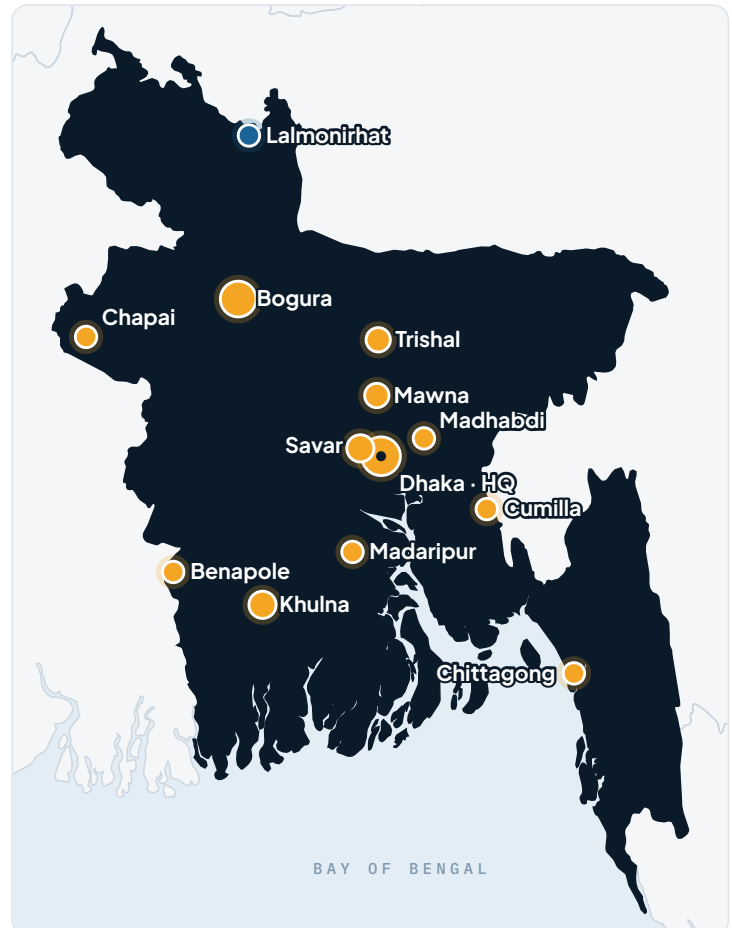
11 — CLIENT LIST · PROJECT FOOTPRINT

Projects across Bangladesh.

Dhaka Gulshan · Bashundhara · Dhanmondi · Uttara		09
Bogura Nourish Poultry, Feeds & Rosr Agro		07
Savar & Ashulia Dhaka District		03
Khulna Akij Jute · AB Industries · Shapnow		03
Mawna Paramount · Macca Madina		02
Trishal Nourish Feeds Ltd.		02
Madaripur LGED Project		01
Benapole, Jessore Bangladesh Land Port Authority		01
Madhabdi, Narsingdi Sami Textile		01
Chapai Agro Fruits & Vegetables Ltd.		01
Chittagong East Bengal Regiment (EBRC)		01
Cumilla Nourish Feeds Ltd. · 108 ft tower		01
Other farm sites Modupur · Sagordighi · Narayenpur (Nourish)		04

● CLIENT-LIST PROJECT LOCATIONS

● FEATURED PROJECT · LALMONIRHAT



36

PROJECTS IN
CLIENT LIST

13

DISTRICTS & AREAS
ON THE MAP

25

CLIENTS &
ORGANISATIONS

HQ

MIRPUR DOHS,
DHAKA-1216



12 — FEATURED PROJECTS

Projects that stand tall.

A selection of ISSBC projects — architect-led commercial buildings, poultry and feed-mill facilities, towers, warehouses and factory buildings across Bangladesh.



20 Blues Communications Ltd.

HEADQUARTERS, DHAKA

21 Dhali Fitness Center (DFC)

ARCHITECT: ARCHFIELD

22 Nourish Poultry & Hatchery Ltd.

BOGURA-07

23 Nourish Poultry & Hatchery Ltd.

BOGURA-08 · LITTER MANAGEMENT

24 Feed Mill Tower & Truck Shed

NOURISH FEEDS LTD.

25 Commercial Layer Farm & Vacation House

NOURISH AGRO LTD. · MR. K. KADIR

26 Workshop Building & Warehouse

KR MOTORS · NOURISH AGRO LTD.

27 Warehouse & Factory Building

NOURISH AGRO LTD. · SAMI TEXTILE

28 Feed Mill Tower (Lalmonirhat)

NOURISH AGRO LTD.



FEATURED PROJECT · 01

Blues Communications Ltd.

LOCATION

Headquarters, Dhaka

ARCHITECT

Dehsar Works

The Dhaka headquarters of Blues Communications Ltd., designed by Dehsar Works — a striking steel-and-glass workplace that shows how pre-engineered steel can create light, open and inspiring spaces.





FEATURED PROJECT · 02

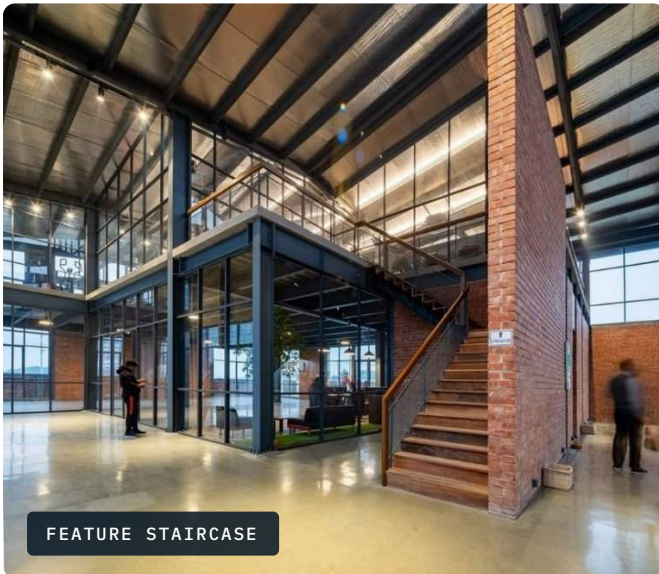
Dhali Fitness Center

CLIENT

Dhali Fitness Center (DFC)

ARCHITECT

Archfield





FEATURED PROJECT · 03

Bogura-07 Projects

CLIENT

Nourish Poultry & Hatchery Ltd

PROJECTS

Bogura-07



01 Commercial pullet shed

02 Truck Shed (Light Structure)

03 Water Tank 80 ft Height (40,000 Liter Capacity)



FEATURED PROJECT · 04

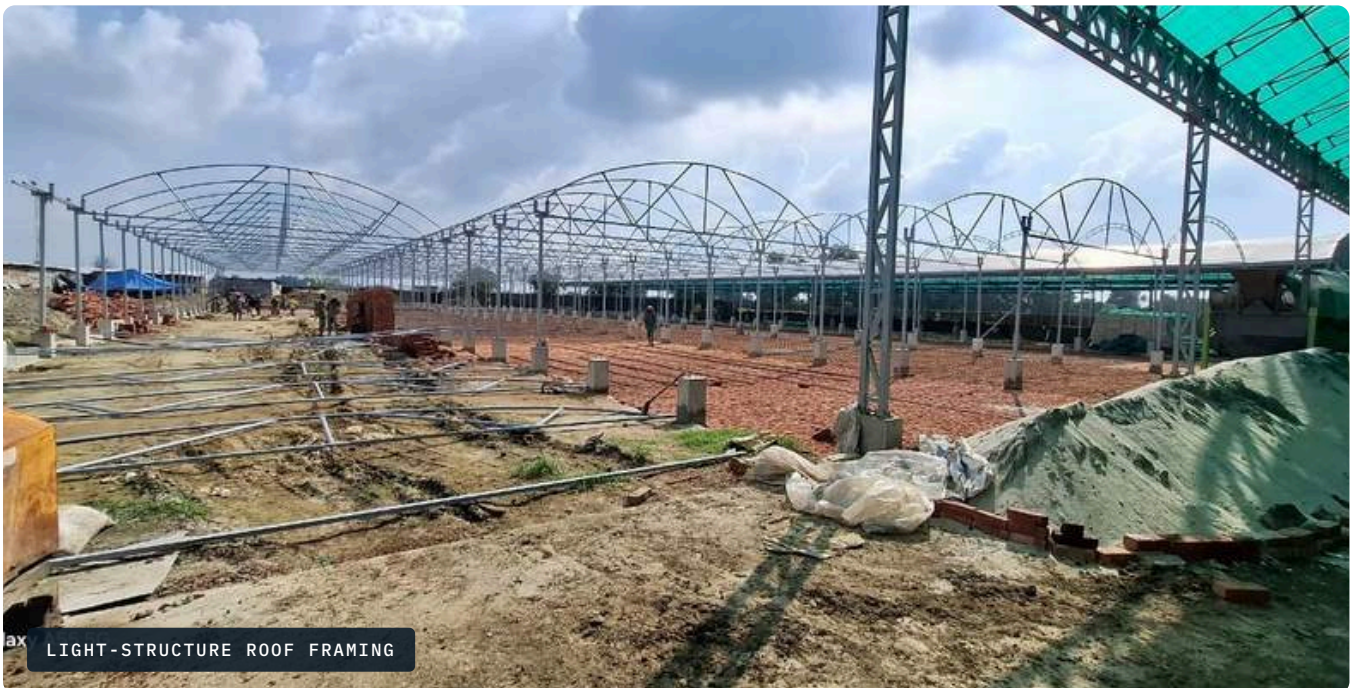
Litter Management Project

CLIENT

Nourish Poultry & Hatchery Ltd

PROJECTS

Bogura-08 (Litter Management Project)



CLIENT

Nourish Poultry & Hatchery Ltd

LOCATION

Bogura-08

SCOPE

Litter Management Project



13 – LIGHT STRUCTURE PROJECTS

Light Structure Projects

P-01 Project – Feed Mill Tower

CLIENT: **NOURISH FEEDS LTD.**



P-02 Project – Truck Shed

CLIENT: **NOURISH FEEDS LTD.**





P-03

Project – Commercial Layer Farm

CLIENT: **NOURISH AGRO LTD.**



P-04

Project – Vacation House

CLIENT: **MR. K. KADIR**





P-05

Project – Workshop Building

CLIENT: KR MOTORS



P-06

Project – Feed Mill Warehouse (Bogura-02)

CLIENT: NOURISH AGRO LTD.



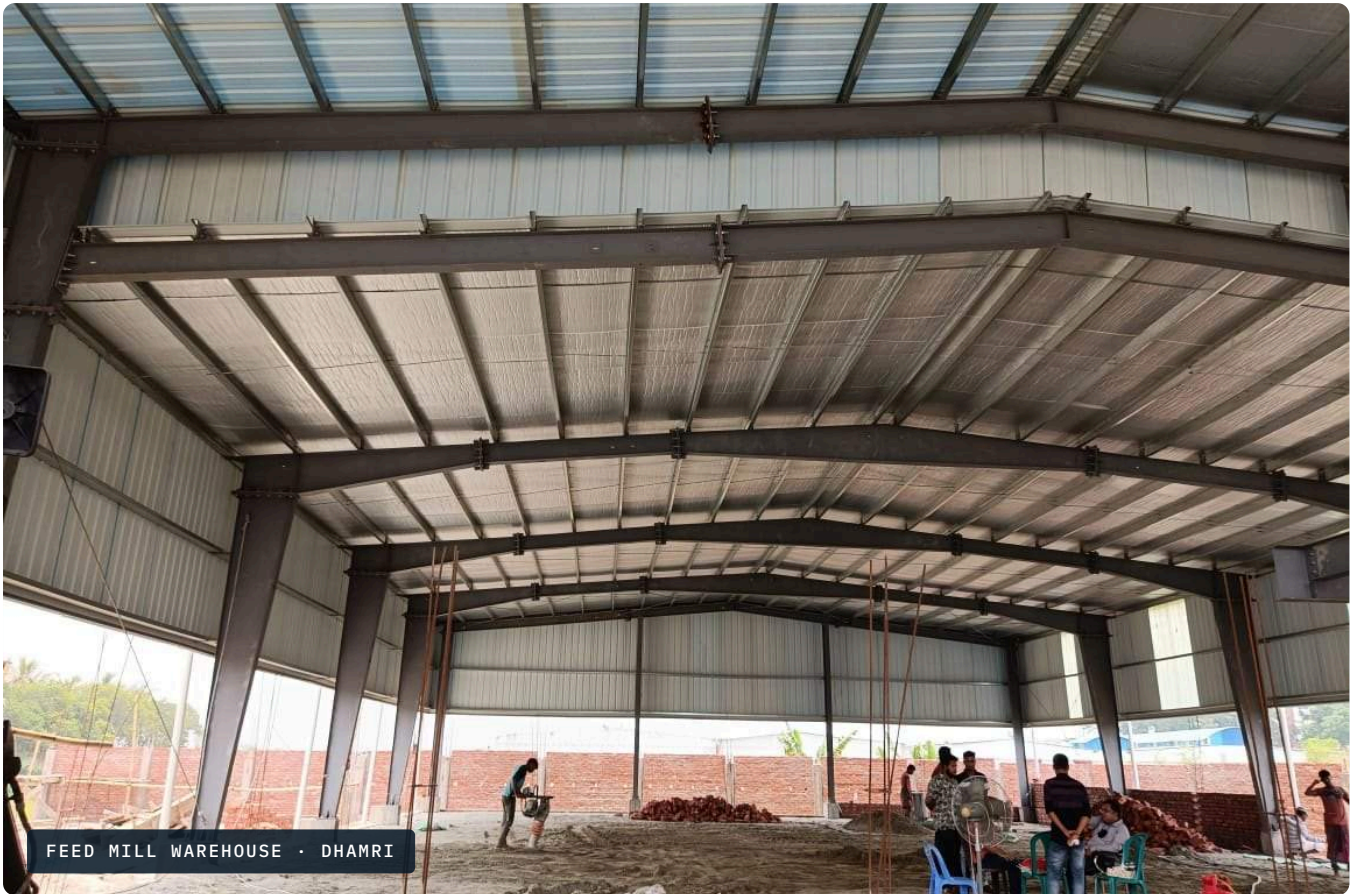
FEED MILL WAREHOUSE · BOGURA-02



P-07

Project – Feed Mill Warehouse (Dhamri)

CLIENT: NOURISH AGRO LTD.



P-08

Project – 3 Storied Factory Building

CLIENT: SAMI TEXTILE





P-09

Project – Feed Mill Tower (Lalmonirhat)

CLIENT: **NOURISH AGRO LTD.**



— YOUR PROJECT NEXT

Planning a new facility or an expansion?

ISSBC stands ready to help you meet your steel construction needs — from design and fabrication to erection.



01859-082028



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www.ishapedbd.com



14 — WORKSHOP & FABRICATION

Inside our fabrication workshop.

01
MS Plate Unloading

02
Fabrication

03
Steel Member
Assembly

04
Finish Goods

05
Finish Goods
Delivery





FINISH GOODS



FINISH GOODS DELIVERY TIME



FABRICATION TIME



FABRICATION SHOP FLOOR



FABRICATION SHOP FLOOR



STEEL MEMBER ASSEMBLY TIME

Factory-controlled quality. Every member is cut, welded, assembled and finished in our workshop under controlled conditions — then delivered to site ready for fast erection.



15 — CONTACT US

Let's build something that lasts.

So, whether your project is new or an expansion into a larger facility, I-Shaped Steel Building & Construction (ISSBC) stands ready to help you meet your steel construction needs.



BUSINESS ADDRESS

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03 Buildrite Limited

04 Sardar Engineering Services



BLUES COMMUNICATIONS LTD. · DHAKA



SAMI TEXTILE



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ENGINEERED IN STEEL. BUILT TO LAST.

GET IN TOUCH

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