

# MSDBL

MASUD STEEL DESIGN BD. LTD



## BROCHURE



••• BETTER THAN BEST •••

# OVERVIEW



Founded in 2016, Masud Steel Design BD Ltd, being sister concern of MASUD Group serves as a sole purpose for design & manufacture of supreme quality pre-engineered steel building & structures and provide outright steel construction solutions to complex steel buildings without undermining business ethics, alongside following our motto. "Better Than Best" which already briefs you about it's unique working policy.





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# MANAGING DIRECTOR'S MESSAGE



K M Masudur Rahman

Managing Director, Masud Steel Design BD.Ltd.

“

“We are very pleased to welcome you to Masud Steel Design BD. Ltd. We have been working for 10 years with integrity; maintaining our relations and policies. It is well ensured that every worker of ours has developed their skills to uphold the required standard and quality in every field to meet our clients' demand. Fulfilling clients' expectations is our first priority. We always look forward to achieving our goals and remaining committed to our work. We can assure you that you would find what you intently demand at its best at Masud Steel Design BD. Ltd.

Because we believe in establishing modern business values in every soul working in our company to thrive in both national and global steel manufacturing industries.”

”



## INTRODUCTION

Masud Steel Design BD Ltd. (MSDBL) is one of the leading enterprises in construction in Bangladesh specializes in complete solutions in Steel structure designing, manufacturing and erecting.

With total land area of 7,000 decimal & total annual production capacity of 50,000 MT, MSDBL is one of the largest and most advanced steel structure production facilities in Bangladesh. It has been equipped with all the modern production lines from Germany, Italy, USA and stringent quality control system to achieve customers needed aesthetic appearance buttressed with quality & satisfaction.

MSDBL has invested heavily in R&D to enhance products and deliver optimal technical solutions to the customers by providing "single responsibility" from design, shop drawing, fabrication, transportation, erection, maintenance with longstanding engineering expertise in Pre-Engineered Steel sectors.

This integrated production process will bring to our customers huge advantages of an economical solution, high-quality products and excellent customer services.

### Scope of business:

- Full-packaged Design, Manufacture, Fabrication and Installation of pre-engineered steel buildings & structures for civil, industrial, commercial and infrastructure projects.
- Manufacture and fabrication of high-tech MS & GI Pipe for multipurpose use.
- High-tech hot-dip galvanization.
- Project Management & Construction Management.

MSDBL is committed to continuously making great efforts for customer's trust and long-term cooperation."

We highly appreciate your trust for our products!

Thank you so much and we are looking forward to work with you!



## MISSION VISION & GOAL

### Vision

To be one of the top leading companies worldwide in steel fabrication industries with top end quality.

### Mission

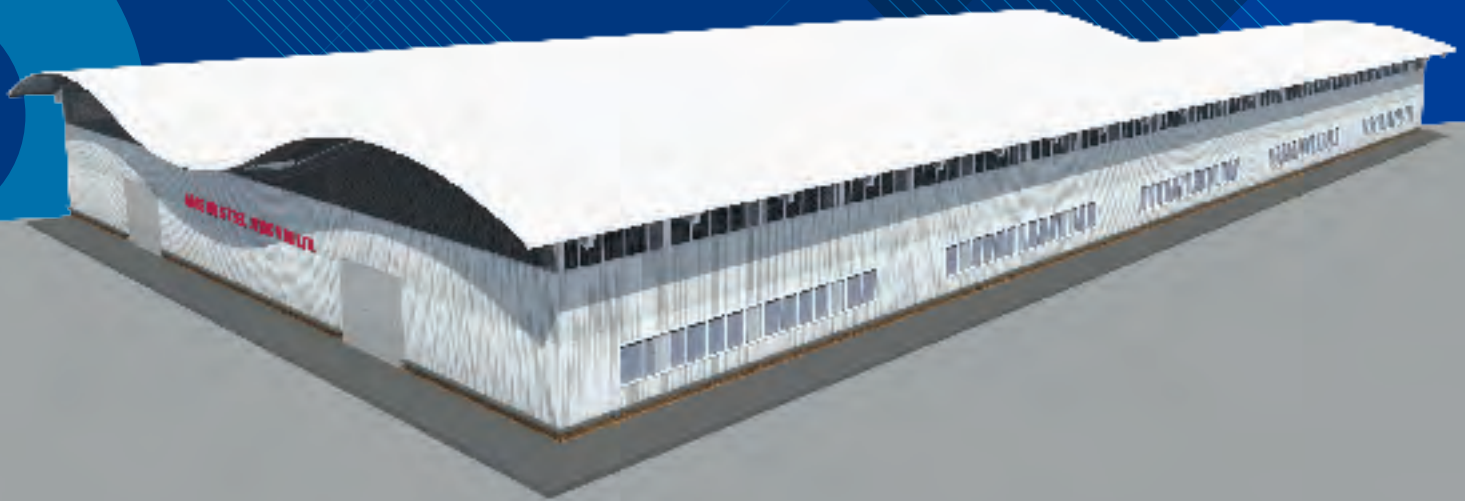
To reach the customers satisfaction by providing the best quality, services & on time delivery with competitive prices.

### Goals

Maintaining workers satisfaction and self-esteem, while achieving responsible return on investment that would facilitate the continuing growth of business.

# PRE-ENGINEERED STEEL FACTORY BUILDING

Birds Eye View



## About PEB Factory

Total Land Area	: 28,00,000 sft
Fabrication Floor Area	: 1,00,000 sft
Shot Blasting & Painting Area	: 30,000 sft
Cold Forming Area	: 25,000 sft
Raw Material Storage Area	: 50,000 sft
Gas Generator & Substation Area	: 3,000 sft
Office Building (3 Stored)	: 15,000 sft

Production Capacity:	
Builtup Section	: 36,000 MT/year
Forming Section	: 12,000 MT/year

# OUR FACILITIES

Carbon-dioxide Liquid Storage  
Capacity: 10 ton

Oxygen Liquid Storage  
Capacity: 10 ton

Training Center

Mosque

Dormitory for Officers & Guests

Dormitory for Worker

Play Ground

Gymnasium

Storage Area

Drive way Area

Cafeteria

Greenery Area





# PRE ENGINEERED BUILDING



- |                                       |                   |   |
|---------------------------------------|-------------------|---|
| 1. Concrete Footing                   | 15. Lean To Frame | 23. Side wall Girt                          |
| 2. Anchor Bolts                       | 16. Crane Beam    | 24. Flush Fascia Frame                      |
| 3. Base Plate                         | 17. Crane Column  | 25. Cage Ladder                             |
| 4. End Wall Girt                      | 18. EOT Crane     | 26. Deck Panel with Steel Mesh              |
| 5. Portal Bracing                     | 19. Roof Purlin   | 27. Hand Rail (Steel)                       |
| 6. Main Frame Straight Column         | 20. Flange Brace  | 28. Staircase (Checker plate/<br>C channel) |
| 7. Wall Bracing<br>(Angle/Rod/Cables) | 21. Sag Rod       | 29. Crane Bracket                           |
|                                       | 22. Eave Strut    |   |
| 8. Framed Opening (Window/Louver)     |                   |   |
| 9. End Wall Wind Column               |                   |   |
| 10. Roof Bracing (Angle/Rod/Cables)   |                   |   |
| 11. Main Frame Rafter                 |                   |   |
| 12. Jack Beam                         |                   |   |
| 13. Main Frame Tapered Column         |                   |   |
| 14. Cantilever Fascia Frame           |                   |   |

## PRODUCTION CAPACITY

Item	Unit	Production Capacity
Built-up Section	MT	36,000/Year
Cold Form Section	MT	12,000/Year

## SCOPE OF PRODUCTION

- Factories
- Warehouses
- Commercial Showrooms
- Shopping Malls
- Multi Storied Building
- Office Buildings
- Convention Centers
- Foot Over Bridge
- Stadiums
- Sports Arenas
- Workshops
- Labour Camps
- Aircraft Hangars & Airport
- Distribution Centers
- Poultry & Dairy Farmhouses
- Modern Electric Pole
- Solar Lamppost

## WHY PEB (PRE-ENGINEERED BUILDING)

Steel is the preferred choice for buildings worldwide due to

- Cost Efficiency
- Faster Occupancy
- Low initial Cost
- Large future expansion
- Quick delivery of the steel building
- Architectural versatility
- Quick turnkey construction
- Low maintenance requirements
- Single-source responsibility
- Easy to relocate and resale value

Steel buildings accommodate a wide variety of occupants, from factories and showrooms to shopping malls and multistoried buildings. You'll be amazed at the value, strength, and wide range of design possibilities available using the steel pre-engineered building system.

Quick construction time and capacity for design flexibility-allowing our engineers to create a unique and attractive appearance that fits the distinctive business image of each customer.

## WHY CHOOSE MSDBL?

- Uncompromised quality
- To meet your demand
- Committed delivery & services
- Competitive price
- Most modern techniques and machineries in this industry
- Imported raw materials which are prime quality
- Highly trained erection team who plans and safely executes the erection of every projects on time and within budget successfully

## SOFTWARE WE USE

Design Software  
 (i) STAAD Pro (by bentley)  
 (ii) RAM Connection  
 (iii) ETABS (by CSI)

Detailing Software  
 (i) AutoCAD  
 (ii) Tekla Structures

# MACHINE LIST

Some Important Machinery

SL	Machine Name	Brand	Model No	Page
01	Shear Machine	Inanlar	AHGM 6025	10
		Hacco	Haco 10'X1/2	11
		Mengele	GWF 4050x20	12
02	CNC Strip Flame & Oxy Cutting Machine	Wuxi Zhouxiang	CNC/GDZ-5000	13
03	Complete Beams welding Line	CMM	TBL P.S.M. 2000/1000/15000	14
04	Gantry Welding Machine	-	SXBH20	15
05	Hydraulic Straightening Machine	Wuxi Zhouxiang	YJZ-60C	16
06	Edge Milling Machine	-	XBJ-6	17
07	Iron Worker Machine	Mubea	HP 1000/760	18
08	Iron Worker Machine	IHKM	HKM-175	19
09	CNC Plate Drilling Machine	-	ZPZ200	20
10	Radial Drilling Machine	Atlas	Z3050 x 16/1	21
11	H Beam Shot Blasting Machine	Wuxi Zhouxiang	HGP-10208	22
12	Screw Type Air Compressor Machine	Gardner Denver	ESM-45	23
13	ARC Welding Machine	Riland	-	24
14	Mig Welding Machine	Lincoln	-	25
15	Z Purlin Machine	Dingbo	-	26
16	C Purlin Machine	Accurl	-	27
17	Steel Curving Machine	Accurl	-	28
18	Deck Forming Machine	Dingbo	-	29
19	Roof Forming Machine	Accurl	820	30
20	Single Layer Wall Forming Machine	Dingbo	-	31





## SHEAR MACHINE

Brand: Inanlar  
Model: AHGM 6025  
Made in Turkey

### MACHINE SPECIFICATION

Cutting Length	: 6000 mm
Cutting Thickness	: 25 mm
Cutting Capacity	: 10 (70kg/mm <sup>2</sup> )
Cutting Angle	: 0.7 - 2.4
Stroke per Minute	: 3.3
Number of Hold Downs	: 24
Main Motor	: 37 kw



## SHEAR MACHINE

Brand: Haco  
Model: Haco 10'X ½  
Made in Belgium

### MACHINE SPECIFICATION

Type	: HYDRAULIC / GUILLOTINE
Capacity	: 12 mm
Rear Stop	: 750 mm
Work Length	: 3000 mm
Speed	: 7 @ 14 CYCLE / MINUTE
Engine	: 30HP
Voltage	: 575V / 3PH / 60HZ
Weight	: 18000 LBS
Angle	: 0.5 °@3 °
Sheet Clamp	: 18



## SHEAR MACHINE

Brand: Mengele  
Model: Mengele-GWF 4050 x 20  
Made in Germany

### MACHINE SPECIFICATION

Sheet thickness	: 20.0 mm
Sheet width	: 4050 mm
Depth rear gauge	: 0 mm
Type	: S20-4000
Capacity	: 4.050 x 20 mm
Work pressure	: 260 bar
Weight Machine	: 37.500 kg





## CNC STRIP FLAME & OXY CUTTING MACHINE

Brand: Wuxi Zhouxiang  
Model: CNC/GDZ-5000  
Made in China

### MACHINE SPECIFICATION

Type	: CNC cutting machine
Voltage	: 220V/380V/415V
Weight	: 2490KG
Gauge	: 5000mm
Cutting width	: 230-3200mm
Rail Length	: 15,000 (valid cutting length 12,500)
Cutting depth	: 6-100mm
Cutting speed	: 50-1000mm/min
Free running speed	: 5000mm/min
Material of Plate	: Stainless steel, carbon steel or other material
Cutting Gas	: Oxygen, Propane or acetylene or other cutting gas.

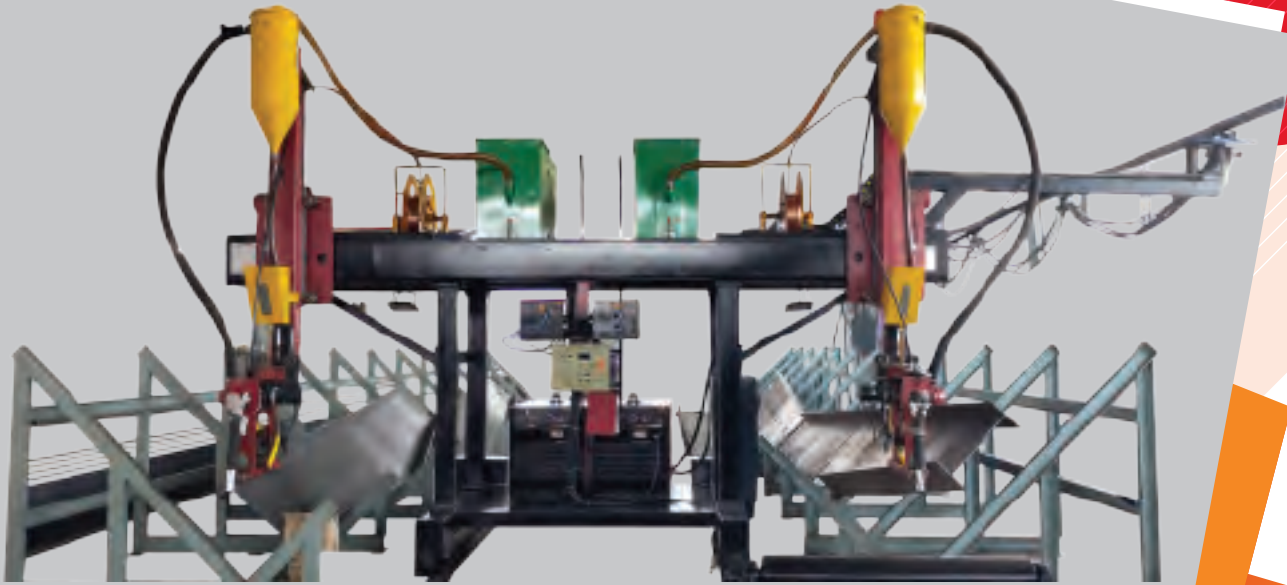


## COMPLETE BEAMS WELDING LINE

Brand: CMM  
Model: TBL P.S.M. 2000/1000/15000  
Made in Italy

### MACHINE SPECIFICATION

Height WEB	: 200-1200mm
Width FLANGE	: 150-800mm
Thickness WEB	: 5-40mm
Thickness FLANGE	: 6-40mm
Max. beam weight	: 1000 kg/m
Min. beam length	: 2000mm*
Traverse handling	: By cylinder
Max. beam length	: 15000mm
Traverse working pressure	: 6T



## GANTRY WELDING MACHINE

Model: SXBH20  
Made in Turkey

### MACHINE SPECIFICATION

Rail gauge	: 2000mm
Web height	: 200-2000mm
Flange width	: 200-1000mm
Work-piece length	: 4000~15000mm or as user's request
Welding speed	: 0.15~1m/min
Returning speed	: 3m/min
Overall power	: 10kW





## HYDRAULIC STRAIGHTENING MACHINE

Brand: Wuxi Zhouxiang  
Model: YJZ-60C  
Made in China

### MACHINE SPECIFICATION

Flange width	: 200~1000mm
Flange thickness	: ≤60mm
Minimum web height	: 350mm
Material of plate	: Q345(16Mn)
Straightening speed	: 6.15m/min
Total Power	: 27.5kW



## EDGE MILLING MACHINE

Model: XBJ-6  
Made in Turkey

### MACHINE SPECIFICATION

The angle milling	: 0-45°
Thickness of steel plate	: 6-50mm
Traveling speed of crosswise milling	: 0.1-1m/min
Back stroke milling speed	: 2m/min
The rev.speed of milling spindle	: 80-400
The working pressure of hydraulic pressure system	: ≤3.5 mpa
The numbers of the cylinders	: 8
The height between the platform and the ground	: 900
The power of driving motor	: 1.5kw
The power of milling motor	: 5.5kw
The power of oil pump motor	: 5.5kw
The overall size of the machine (mm)	: 8680×2600×2100



## IRON WORKER MACHINE

Brand: Mubea  
Model: HP 1000/760  
Made in Germany

### MACHINE SPECIFICATION

Pressure	: 110 Tons
Diameter	: 1 $\frac{3}{8}$ Inch
Thru Thickness	: 15/16 Inch
Channels in flange	: 4-15 Inch
Beams in flange	: 4-15 Inch
Channels in Web	: 4-15 Inch
Beams in Web	: 4-24 Inch
Depth of throat	: 30 Inch
Working Height	: 44 $\frac{5}{8}$ Inch





## IRON WORKER MACHINE

Brand: IHKM  
Model: HKM-175  
Made in Turkey

### MACHINE SPECIFICATION

- Punch and die  $\varnothing$  26 mm.
- Punch holder.
- Flat bar cutting blade.
- Solid round - square cutting blade.
- Angle shear.
- Notching blade.
- Working light.
- Central lubrication system.
- Electrical back gauge.
- C - spanner.



## CNC PLATE DRILLING MACHINE

Model: ZPZ200  
Made in Turkey

### MACHINE SPECIFICATION

Max. drilling diameter (mm)	: $\phi 60$
Max. dimension of workpiece (mm)	: 2000×1500×80
Rotary speed of main shaft	: 130-400r/min
Oil-cylinder used for clamping working table	: 12 cylinders
Work-piece clamping way	: hydraulic
Main shaft feeding way	: lead screw
Total power	: 12kW



## RADIAL DRILLING MACHINE

Brand: Atlas  
Model: Z3050 x 16/1  
Made in Germany

### MACHINE SPECIFICATION

Max drilling diameter	: 50mm
The gap between the center line	: Max:1600 mm    Min 350mm
The gap between the spindle end	: Max 1220mm    Min 320mm
Travel of spindle	: 315 mm
Taper of spindle	: MT5
Range of spindle speed	: 25-2000 rpm
Number of spindle speeds	: 16
Range of spindle feeds	: 0.04-3.20 mm/r
Table size	: 630*500*500 mm
Horizontal travel of spindle head	: 1250 mm
Motor power	: 4 KW
Weight	: 4300 kg
Overall dimensions	: 2500*1070*2840mm





## H BEAM SHOT BLASTING MACHINE

Brand: Wuxi Zhouxiang  
Model: HGP-10208  
Made in China

### MACHINE SPECIFICATION

Width*height of work-piece	: 1200×2000mm
Length of work piece	: 3000~15000 mm
Quantity of Shot blaster	: 8
Allowable load of conveyor	: 1000kg/m
Conveying speed	: 0.5~5m/min
Air volume for dust removal	: 12000m <sup>3</sup> /h
Circulation quantity of grinding shots	: 120t/h
External dimension of main machine (L×W×H)	: 7200×2520×3650mm
Depth of pit	: 1820mm
Total power	: 140kW



## SCREW TYPE AIR COMPRESSOR MACHINE

Brand: Gardner Denver  
Model: ESM-45  
Made in England

### MACHINE SPECIFICATION

Nominal Pressure	: 7.5 bar 10 bar 13 bar
Drive Motor	: 45 kw
Free Air Delivery at 7.5 bar Nominal Pressure	: 8.01 m <sup>3</sup> /min
Free Air Delivery at 10 bar Nominal Pressure	: 7.02 m <sup>3</sup> /min
Free Air Delivery at 13 bar Nominal Pressure	: 6.13 m <sup>3</sup> /min
Noise Level at 1 m <sup>1</sup>	: 69 dBA
Noise Level Tolerance at 1 m	: ±3 dB
Weight	: 788 kg
Length x Width x Height	: 1722 x 920 x 1659 mm



## ARC WELDING MACHINE

Brand: Riland  
Made in USA

### MACHINE SPECIFICATION

Rated input voltage (v)	: Single phase AC380V±15%
Input frequency (Hz)	: 50/60
Current/voltage regulation range (A/V)	: 40-480
Thrust adjustment range (A)	: 0-100
No-load voltage (V)	: 68
No-load loss (W)	: 80
Efficiency (%)	: 85
Power factor	: 0.93
Shell protection class	: IP21
Weight (kg)	: 26
Size	: 535 x 272 x 463



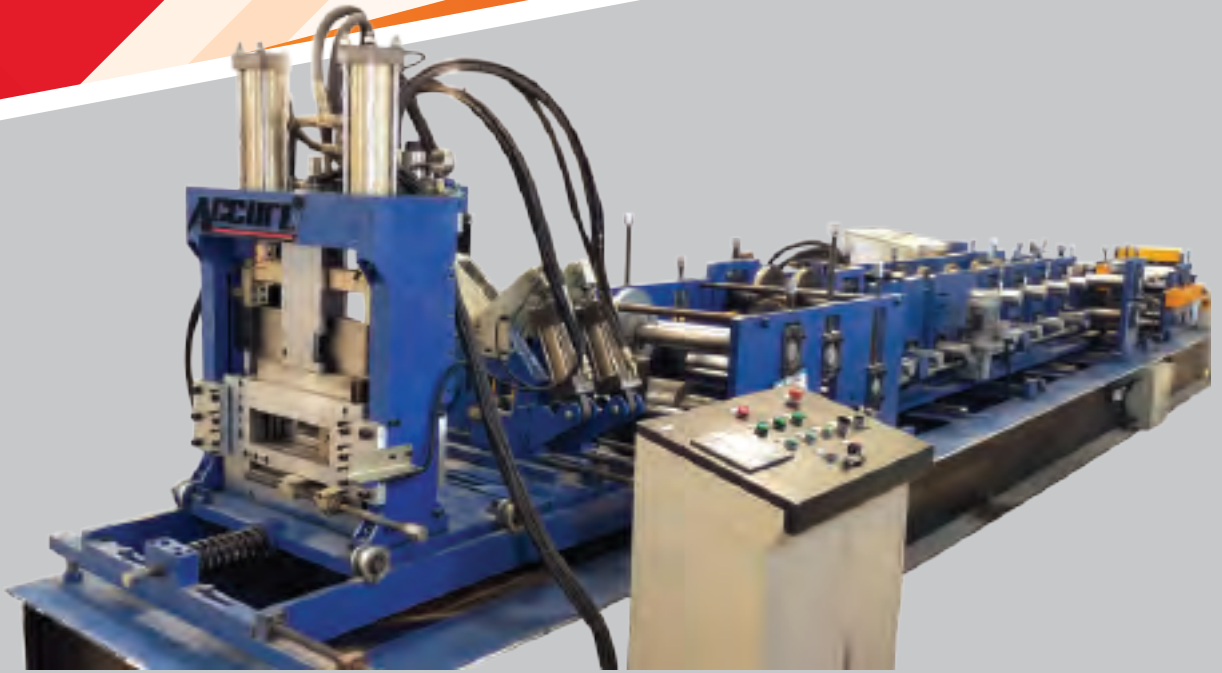


## MIG WELDING MACHINE

Brand: Lincoln  
Model: USA

### MACHINE SPECIFICATION

Input Voltage/Phase/Frequency	: 415V/3P/50-60HZ
Output Current/Voltage/Duty cycle	: 500A/39V/60%@40°C 387A/33.3V/100%@40°C
Amps Input at Rated Output	: 37.5A@500A
Output Range/OCV	: 50-50DA/60V
Dimension	: 670x320x540 (mm)
Weight	: 42kg

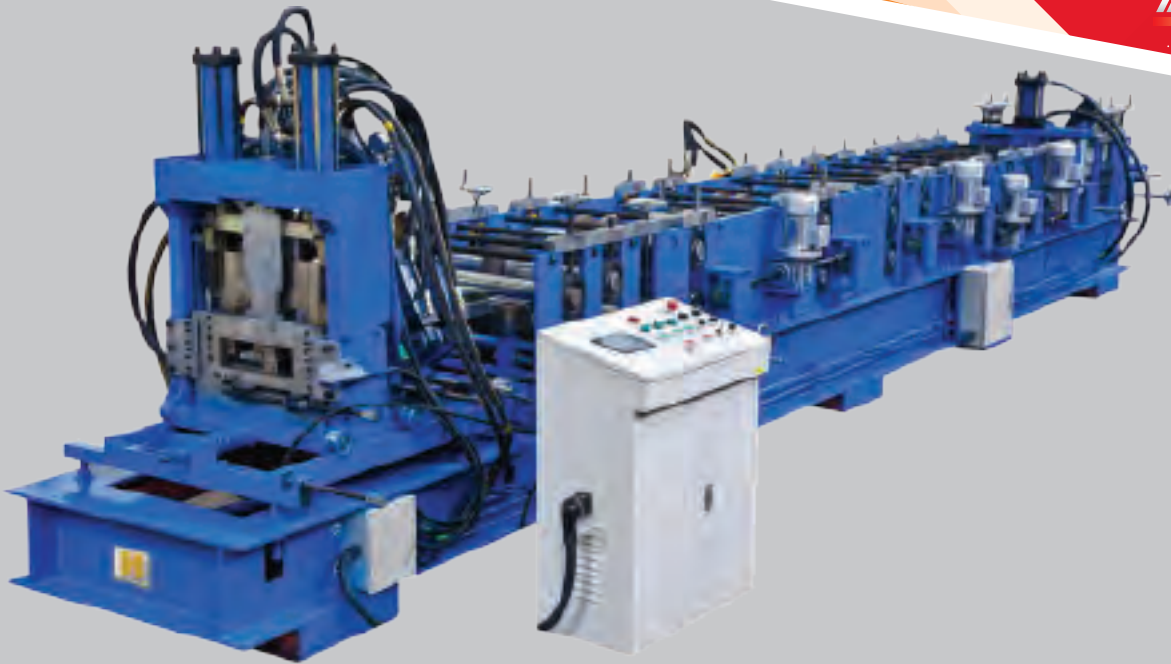


## Z PURLIN MACHINE

Brand: Dingbo  
Made in China

### MACHINE SPECIFICATION

Suitable to process	: colored steel plate, galvanized board
Width of the plate	: 80-300mm(valid)
Roller station	: 16groups
Rolling galvanization thickness	: 2.0-3.0mm
Dimensions	: Approx10m*1.2m*1.5m
Power	: 18.5kw
Thickness of the plate	: 2.0-3.0mm
productivity	: 7m-12m/min
Diameter of the roller	: 85mm
Voltage	: 380V 50Hz
Production Range (Thickness)	: 1 mm to 3 mm



## C PURLIN MACHINE

Brand: Accurl  
Made in China

### MACHINE SPECIFICATION

Production Capacity	: 8-15m
Power(W)	: 11kw
Type	: Steel Frame & Purlin Machine
Voltage	: 380v
Weight	: 6.0T
Dimension(L*W*H)	: 6.0*0.95*1.5m
Machine function	: C purlin forming
Control system	: PLC (imported Brand)
Decoiler	: Hydraulic Decoiler
Production Range (Thickness)	: 1 mm to 3 mm



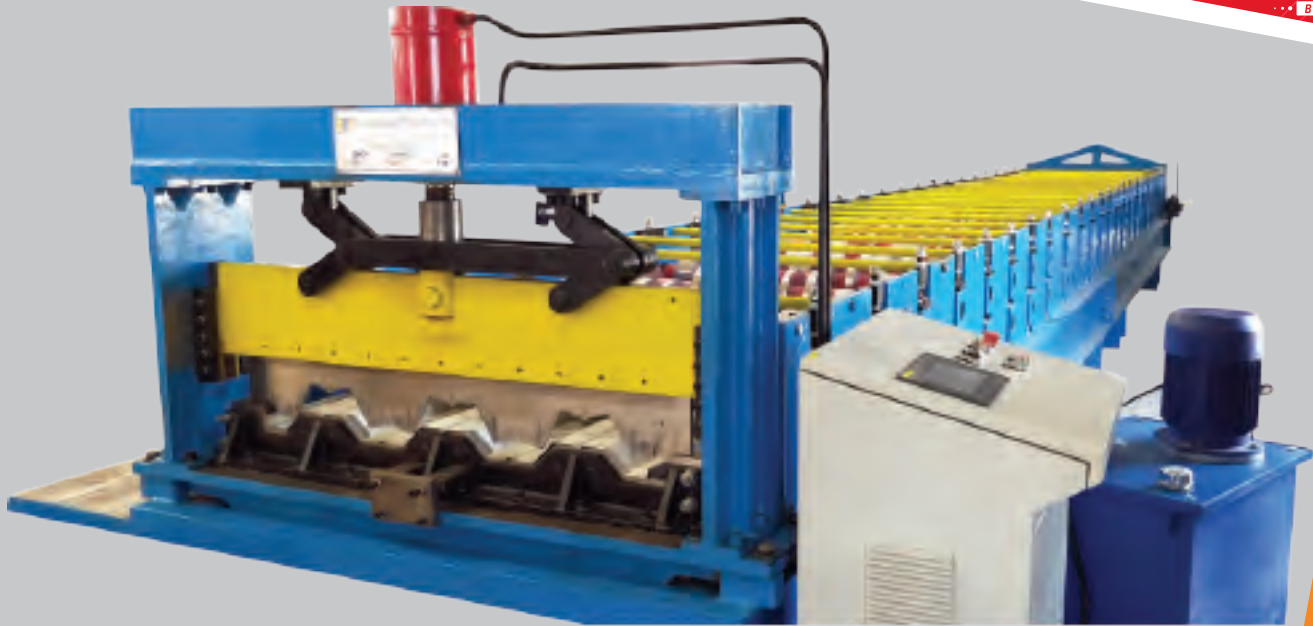


## STEEL CURVING MACHINE

Brand: Accurl  
Made in China

### MACHINE SPECIFICATION

Suitable Thickness	0.3-0.8mm
Forming Stations	3 Stations
Motor Power	5.5KW
Under Frame	400H-Beam, Welded Structure
Screw & Bolt	8.8 National Standard
Transmission Chain	1 Inch
Pump Power	5.5KW
Production Speed	12-15m/min
Cutting Type	Stop to post and post to cut
Hydraulic Pressure	16 Mpa
Voltage Standard	380V/3 Phases/50 Hz



## DECK FORMING MACHINE

Brand: Dingbo  
Made in China

### MACHINE SPECIFICATION

Specification of roll	: 1250mm
Roll speed; Roll steps	: 8-10m/min; 26
Main motor power	: 11 KW*2
Dimension of product	: 16500mm*1500mm*1100mm
Material and diameter of bearing	: Steel 45#, 70mm
Material thickness	: 0.5—2.0mm
Model of bearing	: 45
Mode of cutting	: Hydraulic cutting
Hydraulic station power	: 4 KW
Computer cabinet size	: 700mm*1000mm*300m
PLC, Dynamic currency device	: Japan Panasonic

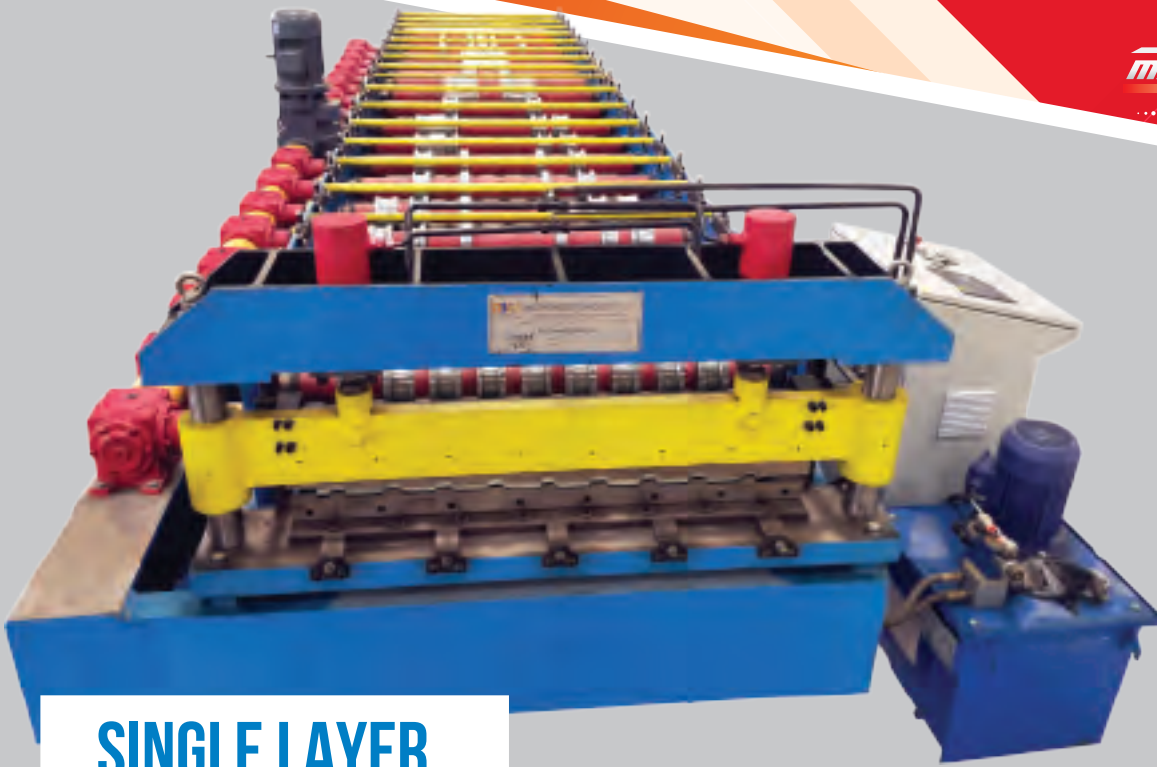


## ROOF FORMING MACHINE

Brand: Accurl, Model: 820  
Made in China

### MACHINE SPECIFICATION

Raw Material Yield Strength	: 240Mpa-5400Mpa
De-Coiler Weight Capacity	: 5 Tons
Roller Station	: 22 forming units
Diameter of Shaft	: 80 mm
Operation	: Automatic Hydraulic Type
Voltage	: 380V/50HZ, 3 Phase
Main Motor	: 5.5 KW
Pump Motor	: 4KW
Production Speed	: 20m/min
Electric Box & Control System	: Frequency Converter (Taiwan Delta)
Size	: 9-10m length



## SINGLE LAYER WALL FORMING MACHINE

Brand: Dingbo  
Made in China

### MACHINE SPECIFICATION

Suitable material	: Color steel sheet
Material thickness	: 0.3-0.8mm
Forming speed	: 10-15m/min
Main motor power	: 5.5 Kw (Depend on final design)
Hydraulic cutting power	: 3 Kw (Depend on final design)
Roller material	: 45#steel Chrome Plated
Cutting blade material	: Cr12 Mould Steel
Shaft material	: High quality 45# steel with heat treatment. Roller grinder milling.
Shaft diameter	: 76mm
Control system	: PLC with touch screen (Panasonic/Siemens)
Machine's size	: About 10.5m×1.8m× 1.5m



## Gas Generator

### Captive Power

Total Capacity: 10.5 MW  
Running Capacity: 3.0 MW  
Brand: MWM  
Made in Germany



## Control Panel

### LT Switchgear

Capacity: 6400 A  
Brand: Siemens  
Made in Germany



# SUBSTATION & GENERATOR



## Diesel Generator

Capacity: 500 KVA  
Frequency: 50HZ  
Brand: Crossworld  
Made in UK

## Sub-Station

Capacity: 750 KVA  
Frequency: 50HZ  
Rated Voltage: 11 kv/ 0.4 kv



# MACHINE LIST

## Auxiliary Equipments



SL	Machine Name	Capacity
01	Weighing Bridge Scale	100 MT
02	Overhead Crane	32, 10, 5 MT
03	Scissor Lift	300 kg
04	Forklift	5, 10 MT
05	Man Lift	350 kg
06	Mobile Crane	10 MT
07	Hydra Crane	16 MT

# WEIGHING BRIDGE SCALE

## Weighing Bridge Scale

100 Ton Scale  
Made in Korea







## OVERHEAD CRANE

Brand: Santo, Taval, Blackbery  
Made in Taiwan & China

### Capacity

32 MT - 01 pcs

10 MT - 07 pcs

5 MT - 10 pcs



### Scissor Lift

Capacity : 300 kg  
Lifting Height : 16m

### Forklift

Capacity : 10 Ton



### Man Lift

Capacity : 350 kg  
Lifting Height : 20m

## Mobile Crane

Lifting Height : 55 Ft  
Capacity : 10 Ton  
Brand: Kato



## Hydra Crane

Lifting Height : 65 Ft  
Capacity : 16 Ton  
Traveling Speed : 38 km/hr



# MACHINE LIST

## Testing Equipments



SL	Machine Name
01	Crane Scale
02	Elcometer Tester
03	Welding Gauge
04	Olympus Test Meter
05	Digital Slide Calipers & Micrometer
06	DPT Solutions Tester



# TESTING EQUIPMENTS



**Crane Scale**

Capacity : 5 Ton



**Elcometer Tester**



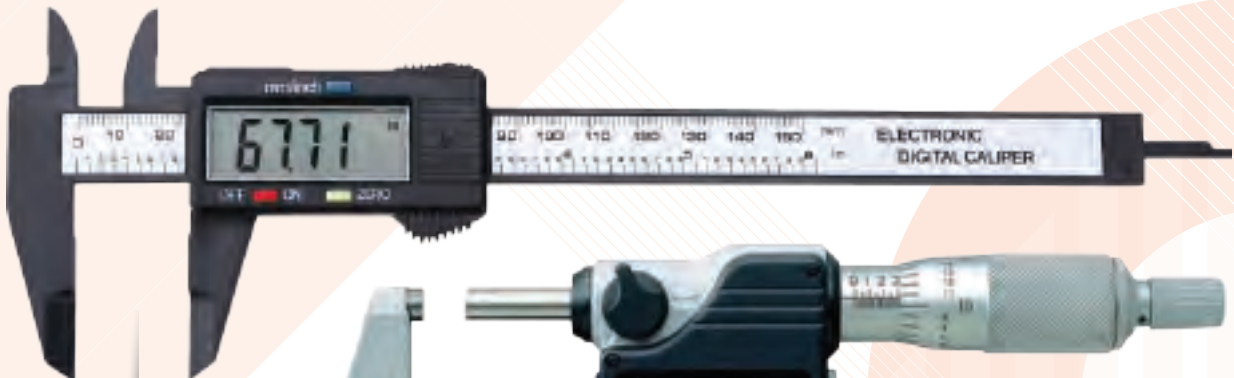
**Welding Gauge**



# TESTING EQUIPMENTS



Olympus Ultrasonic Testing Machine



Digital Slide Calipers & Micrometer



DPT Solutions Tester





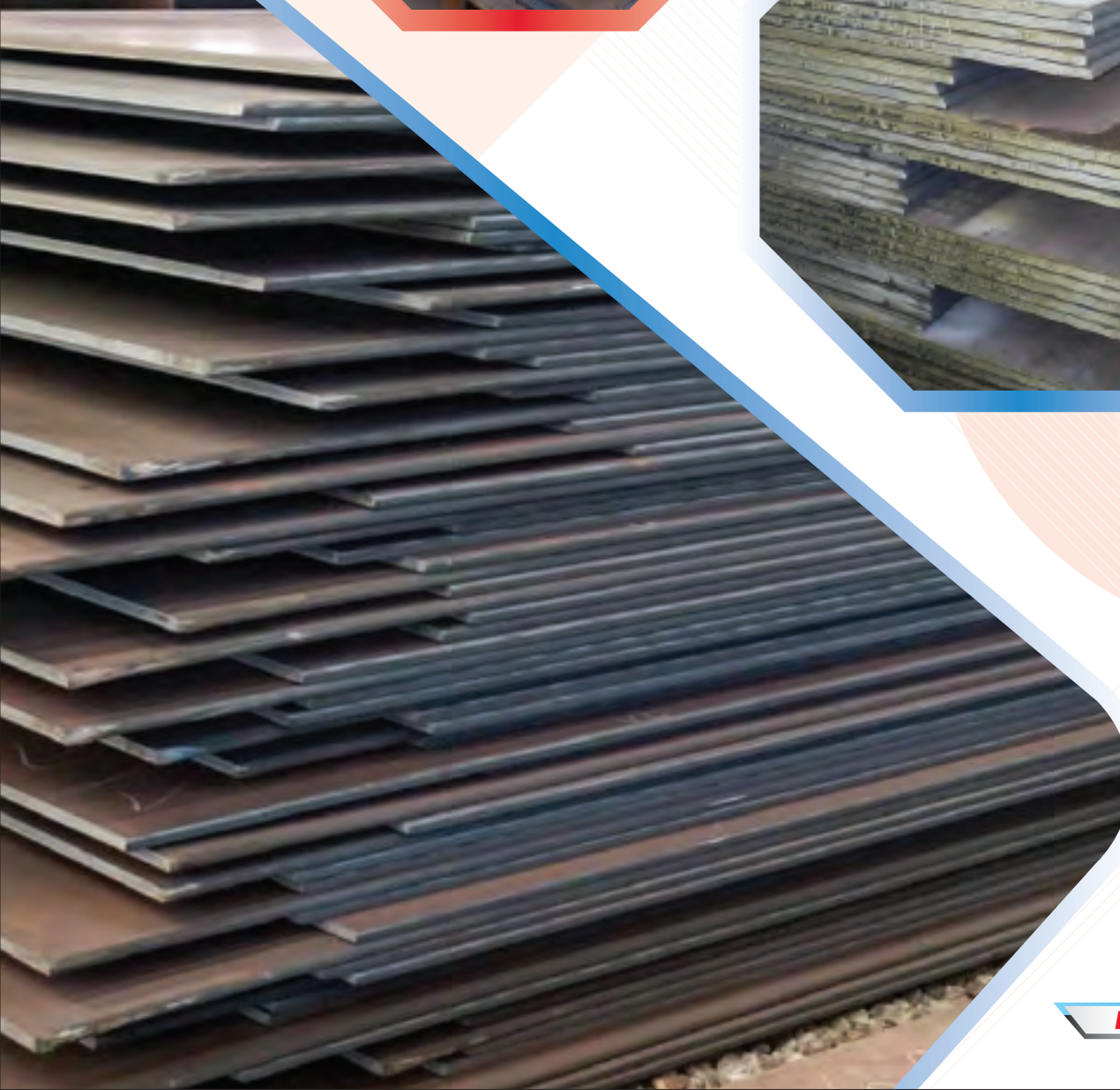
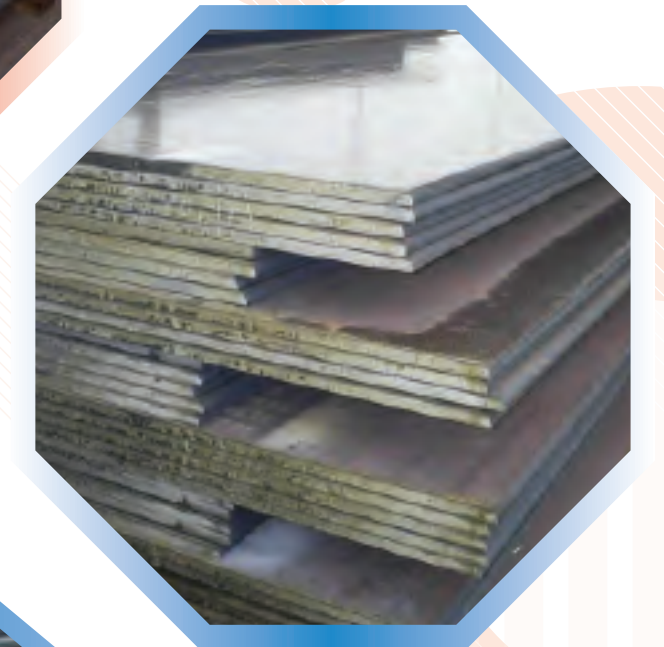
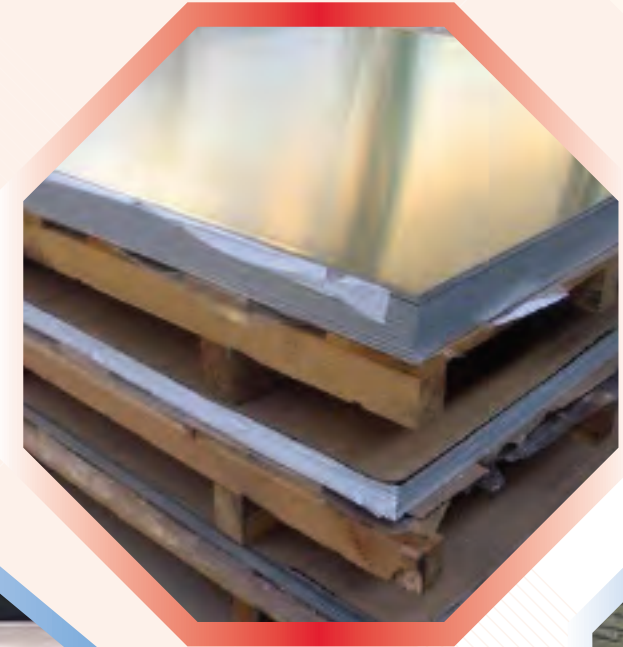
# RAW MATERIALS STORAGE

Coil



# RAW MATERIALS STORAGE

Light Plate Stacking Out Side





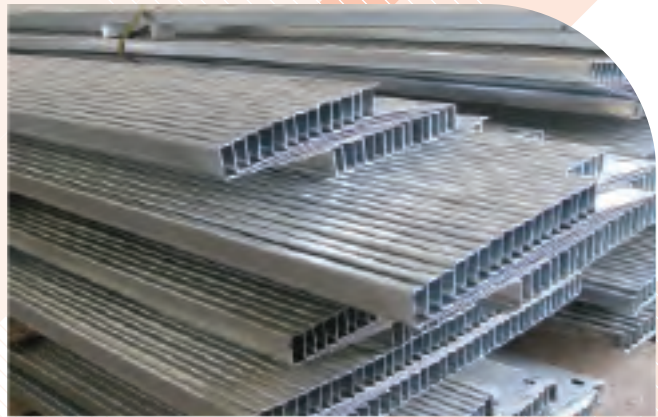
# RAW MATERIALS STORAGE

Heavy Plate Stacking Out Side



# FINISHED GOODS STORAGE

C, Z Purlin & Decking Sheet





# FINISHED GOODS STORAGE

H-Beam & Hot Rolled



# MACHINE LIST

Safety Equipment



SL	Machine Name
01	Welding Hood
02	Googles & Hand Gloves
03	Portable Fire Extinguisher



## Goggles & Hand Gloves

Material (Goggles): Filter Lens, Clear Lens  
Material (Hand Gloves): Lather



## Welding Hood

Material: Lather, Hard PVC



## Portable Fire Extinguisher

Water, ADC Powder, CO2, Foam



# STRUCTURAL SYSTEM

Structural systems are the main load carrying members of a pre-engineered building. The shape and size vary based on application and requirements. The main frame members are the main load carrying member of a structural system which include columns, endwall posts, rafters and other main support members.

All structural steel sections and welded plate members shall be designed in accordance with the applicable sections, relating to design requirements and allowable stresses, of the latest edition of the American Institute of Steel Construction (AISC) "Specification for the Design, Fabrication and Erection of the structural steel for buildings"

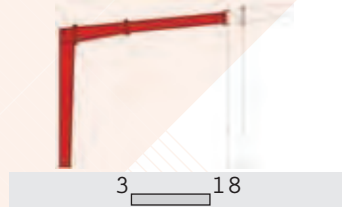
General guidelines on recommend frame types for different width are given below:

## Main Frames

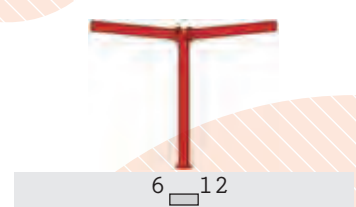
L - CANOPY (L-CAN)



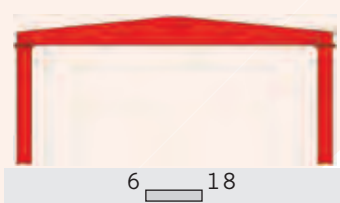
LEAN-TO (L-TO)



BUTTERFLY CANOPY (T-CAN)



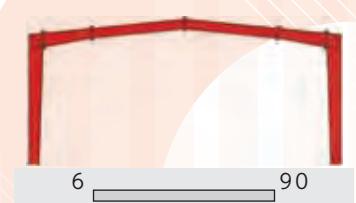
SPACE SAVER (SV)



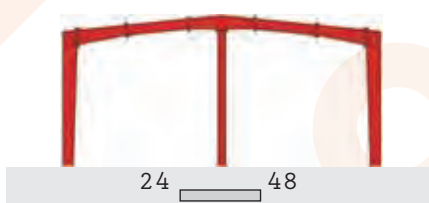
SINGLE SLOPE (SS)



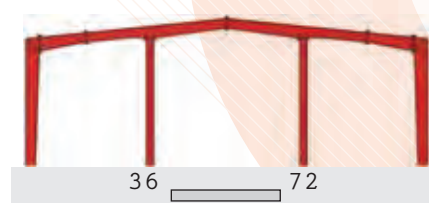
CLEAR SPAN (CS)



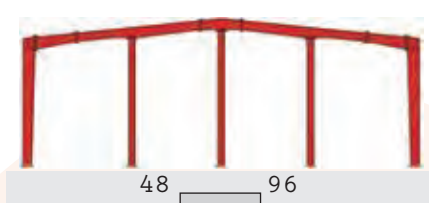
BEAM AND COLUMN (BC-1)



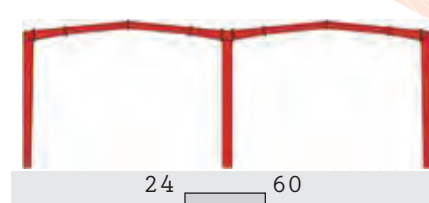
BEAM AND COLUMN (BC-2)



BEAM AND COLUMN (BC-3)



MULTI-SPAN (MS)



Suggested width range (meters) ..... for most economical buildings Standard  
Eave height: 3M-8M; Std bay spacing: 6M/7.5M/9M;  
Standard Loadings: Live load; 0.5/0.6/1.0 KN/M<sup>2</sup>, Wind load: 0.75/1.0/1.25 KN/M<sup>2</sup>

## MEZZANINE

Standard Mezzanine Floor Systems consist of galvanized profiled steel deck, joists, beams and intermediate support columns. Main beams can span in lateral directions and joists in longitudinal directions.



## FASCIAS & CANOPIES

MSDBL provides fascias specially designed to your requirements. These can be either vertical, horizontal or with curved sheeting to enhance the architectural look of your building. Wall canopies at eaves, endwall, over doors and windows are also available.



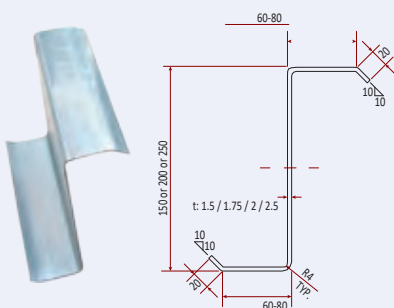
## CRANE BEAMS

Buildings can be designed to support any required crane system. Generally, overhead travelling cranes up to 15 MT are supported on brackets. For higher capacities, an independent support system is provided. Crane support for overhead travelling cranes includes brackets, beams and bracings.

## SECONDARY MEMBERS

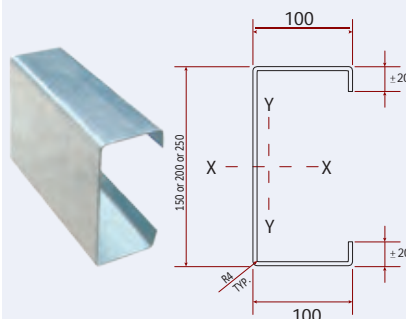
Purlins, eave struts and C-Sections are cold formed from steel which has a minimum yield strength of 345 MPa (50,000 psi) and will conform to the physical specifications of ASTM 570 - Grade 50 or ASTM A 653 - Grade 50 or equivalent. We can also supply purlin with G450Mpa. We offer two choices of surfaced coating (1) Hot-dip-galvanized with 275GSM coating and (2) Zn-Al-Mg coating. These can be chosen based on environment condition of the building being constructed.

### Z-Purlin



Purlins are roll formed Z sections with standard thickness 1.5 - 2.5mm, 150, 200 & 250mm deep with 64mm flanges with a 14mm stiffening lip formed at 45° to the flange

### C-Section



C- Sections are 150, 200 & 250mm deep with standard thickness 1.5 - 2.5mm and a 100mm flange. The flanges are perpendicular to the web and have a 24mm stiffening lip

### Sag Rod



A tension member used to limit the deflection of a girt or purlin in the direction of the weak axis. Sag Rod is electro-galvanized or hot dip galvanized. Diameter is from 12mm to 16mm

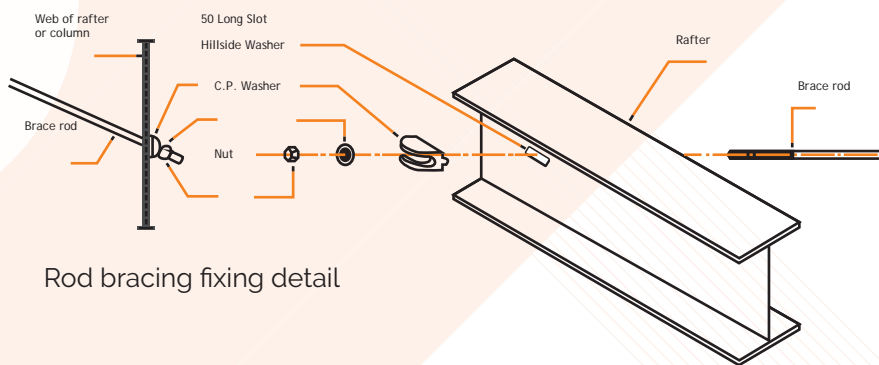


# BRACING SYSTEM

Bracing system includes roof bracing and wall bracing. Roof bracing is usually diagonal while wall bracing can be diagonal, portal, x-portal.

- Diagonal (X-bracing): can be rod, wire or angle bracing that is cheap bracing option.
- Diagonal bracing: is connected to rafter or column by nut, washer and hill side washer.
- Portal bracing: is provided where X-bracing is not allowed due to a requirement of clear non-obstructed space.

The bracing system must be installed properly to make sure the load is transmitted down to the column base or foundation. Bracing rod is painted red or grey alkyd primer 40 micron DFT or hot dip galvanizing ASTM A153 will confirm to the physical specifications of ASTM A-36 or equivalent.

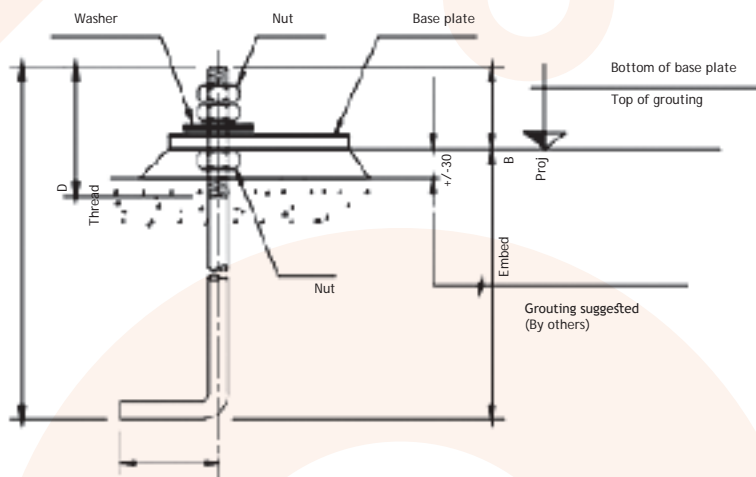


Rod bracing fixing detail



# ANCHOR BOLT

Anchor bolt used to anchor structural members to a foundation or other support is plain or hot dip galvanizing



Anchor bolt detail setting



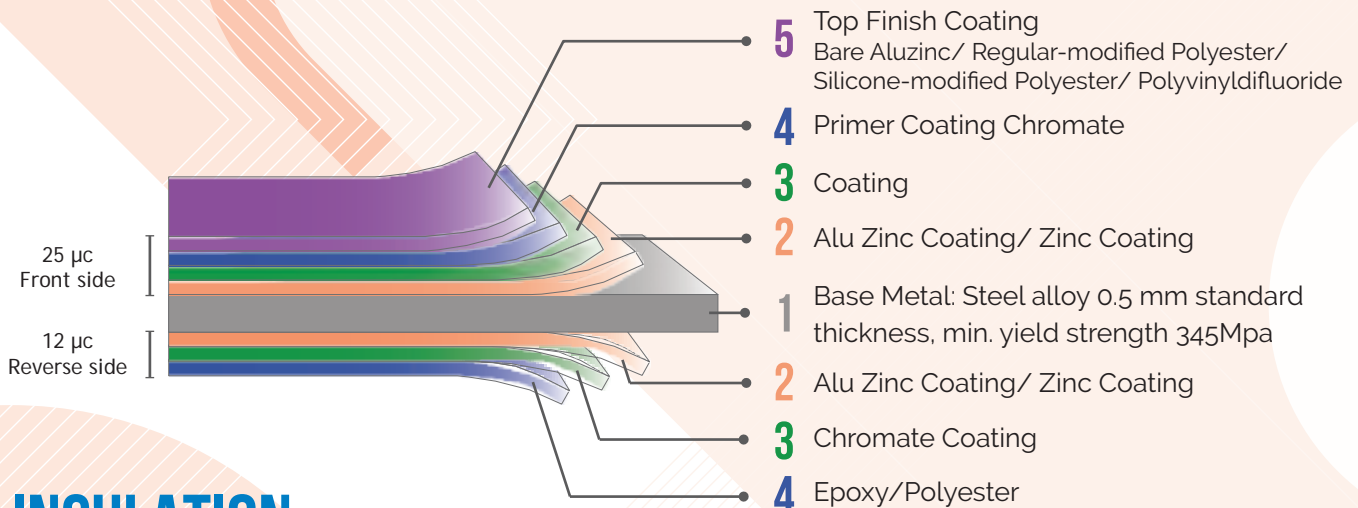
20 - 50mm (diameter)



# STANDING SEAM

The introduction of the MSDBL Standing Seam Panel Systems with double lock standing seam ends eliminates the risk of leakage at fasteners and side and end laps due to the concealed fastening system and provides excellent protection in all weather conditions.

## CROSS SECTION OF PAINTED SHEETING



## INSULATION

MSDBL can provide insulation for roofing & wall cladding with four types of materials: Glasswool, Mineralwool, Air Bubbles, and Polyethylene Foam. Kirby also provide Wall & Roof PUF Panel.

### GLASSSWOOL

Glasswool are manufactured from stable glass fibers bonded with thermosetting resins. They are light in weight, strong, resilient and easy to handle. Products are available unfaced or with a variety of facings to suit the applications: white vinyl, FSK, metallized polyester, kraft paper and glass tissue with nominal density from 10kg/m<sup>3</sup> to 48kg/m<sup>3</sup>. Products are generally recommended for thermal and/or acoustic insulations of all buildings walls and roofs.



### MINERALWOOL

Mineralwool are manufactured from stable rock fibers bonded with thermosetting resins and are light weight, strong and resilient and easy to handle. Mineralwool are fine and uniformly distributed that ensure excellent uniform thermal resistance of building roll. Mineralwool are available with Aluglass, FSK (Aluminium Foil/glass scrim/Kraft paper laminate) facing which provides an efficient vapor barrier. Kraft Paper facing is also available.



### AIR BUBBLES

Air bubbles is a thermal reflective insulation made of two external pure aluminum foil layers covering a single core layer of polyethylene bubble air film. The bubble air is 10mm diameter. The aluminum foil is silver bright reflects the heat radiation. The polyethylene bubble air sheet prevents the thermal conductivity and is sound proof. Air bubbles is high strength, waterproof, fire retardant. The aluminum foil is anti-oxidant treated to withstand different weather conditions. Product is manufactured by American standard.



# ACCESSORIES

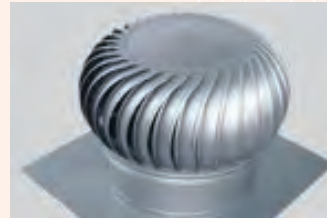
## ROOFING ACCESSORIES

### SKY LIGHTS & WALL LIGHTS

Produced from polyester containing UV stabilizer and high quality fiber glass. In addition, it is protected by two layer sealable films so it can stand the exterior environment. It can maintain its translucency and mechanical properties for a long time which brings high economic efficiency. It manufactured under ASTM D3841-97, which is set exclusively for F.R.P roong.



### TURBO VENTS



Wind driven Turbo ventilators are powered by the wind to create effective ventilation for different industries.

Turbine or Turbo ventilators are round metal vents with fins in them. Rotation causes a centrifugal force on the tip centrifugal force on the tip of the fins which suck out the stale hot air from inside of the building. The faster the wind, the faster the turbine will rotate and exhaust the heat, smoke, fumes, humidity.

### POWERED VENTILATORS

MSDBL 'C' whirlwind low silhouette extract ventilator with spun aluminum non-return shutter and one piece base and throat. Mounted on FRP roof curb molded to suit Kirby Roof panels.



### RIDGE VENTILATORS



Gravity type with bird screen and Mechanical control Damper, standard size is 3000 mm long with a throat opening

of 300 mm.

### ROOF CURBS

Enclosure for ducts or other roof projections. 0.6mm stainless steel fitting Kirby Roof panels. Size is as per request.



### ROOF JACKS



Enclosure for pipes or stacks projecting from the roof; 2mm thick FRP to fit Kirby roof panel.

Available in opening sizes for 50 mm to 300 mm diameter.

### LOUVERS

Adjustable louvers are with overlapping blades allowing free air flow. Size is as per request. incorporating stainless steel insect mesh, hand crank and blade adjustment lever.



### ALUMINIUM WINDOWS



Designed for installation with Kirby wall panel, double slides or as per request, self flashing with reinforced clear glass and removable half insect screen. Standard size is 1 m x 1 m. Multiple

windows can be formed by joining the jamb fins together.

## DOORS

### SLIDING DOORS (SINGLE OR DOUBLE LEAF)

3 m, 4 m and 5 m wide and 3 m to 5.5 m high. Other sizes are available on special order.



### WALK DOORS (SINGLE OR DOUBLE)

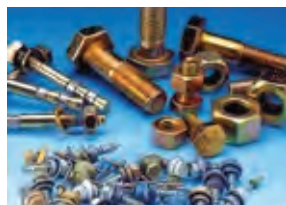


915 mm or 1830 mm wide x 2134 mm high made of 20 gauge electrogalvanised steel with honey core. Fireproofing is 60, 90, 120 minutes or as request. Door fixture is provided.

## SUNDAY ITEMS

### CONNECTION BOLT

Shall be ASTM & DIN standard. All bolts have hex head, zinc plated & hotdip gavanized finishing.



### SEALANT



Flexible sealer tapes made from Butyl rubber for sheeting side laps, end laps and accessories.

### SELF DRILLING SCREW

Shall be DIN standard with EPDM bonded washer & class 3, 1000 hrs SST (Salt Spray Test) finishing.

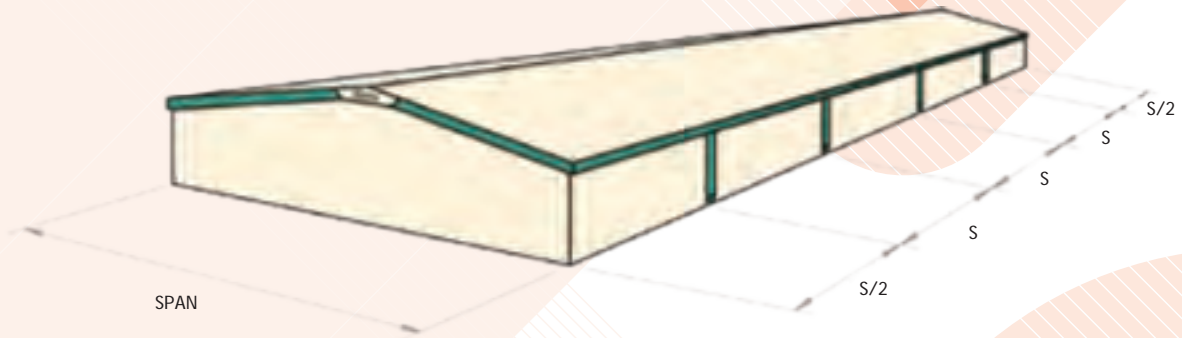
# WATER DRAINAGE

The water drainage systems include two main members:

**Gutter:** a light gauge metal member at an eave, valley or parapet designed to carry water from the roof to downspouts or drains. There are two types of gutter: eave gutter and valley gutter. The gutter is galvanized, galvalume (color or plain) or stainless steel with thickness of 0.5mm, 0.6mm, 0.7mm, 1.0mm, 1.5mm

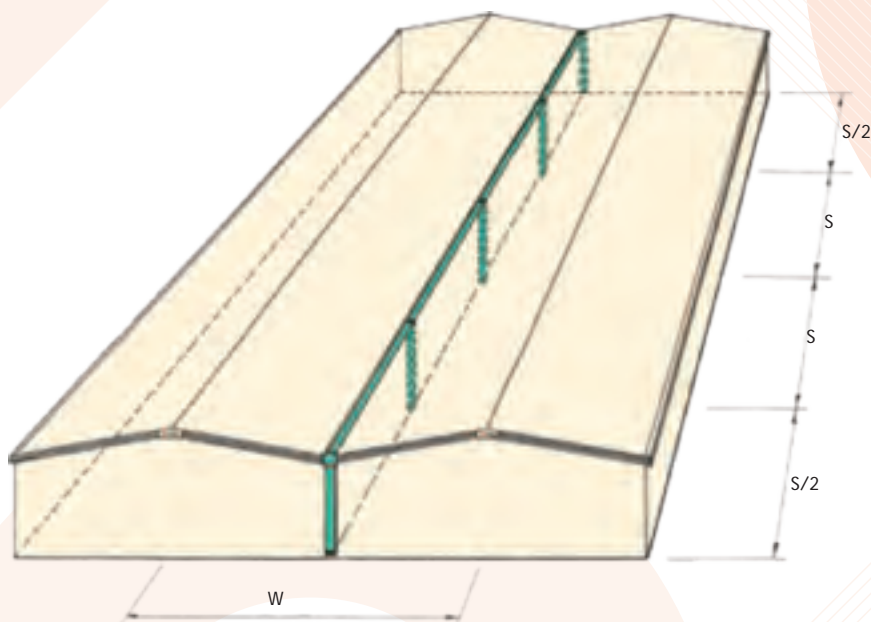
**Downspout:** a conduit used to carry water from the gutter of a building. Its shape is rectangular or round galvanized, galvalume or PVC with various size.

## EAVE GUTTER



S = DOWNSPOUT  
S/2 = ONE HALF DOWNSPOUT SPACING

## VALLEY GUTTER





# MSDBL GREEN BUILDING CONCEPT

Our philosophy and environmental commitment of a Green building means, we approach the design, manufacturing and construction of each project to minimize impact on environment. Masud Steel uses the concept of green building to provide the steel structure to its customers to support the cause of saving the earth from impact of increasing carbon foot print.

## STRUCTURAL STEEL

### INDUSTRIAL

Steel plants  
Oil & Gas Structures  
Metal Smelters  
Chemical Plants Fertilizers  
and Petrochem  
Cement Plants etc.

### INFRASTRUCTURE

Power Plants  
Airports  
Road & Railway Bridges  
Transmission Towers  
Telecom Towers etc.

### COMMERCIAL BUILDINGS

High Rise Buildings  
Commercial Complexes Malls  
& Multiplexes etc.

### ENGINEERING

The engineering department uses the latest versions of internationally renowned industry standard 2D and 3D software for designing and detailing. Masud Steel upholds its position at the cutting edge of the industry due to its commitment to quality and customer satisfaction. Skilled structural engineers using the very latest in computerized engineering design and detailing systems permit the selection of the most economical, accurate and efficient framing and cladding systems.

### DESIGN SOFTWARE

The Design / Engineering Department are fully computerized, utilizing the latest software packages to enable them to produce the most economical structures in the shortest time possible. The software packages most frequently used are: STAAD PRO, AUTO CAD and XSTEEL.

### WELDING

All welding operations are carried out in accordance with Masud Steel Engineering's approved welding procedures by independently qualified welders. Kirby welders are trained to perform the welding processes SAW, SMAW & FCAW and are AWS D1.1 qualified for various positions including 6GR for T, K, and Y connections. During the welding operation all welders are continually monitored to ensure that the welding parameters, as detailed in the relevant procedure, are adhered to and that the level of workmanship is maintained.

All items, after completion of welding are visually inspected against the requirements of AWS D 1.1 for compliance. Any visual discontinuity is marked and repaired immediately. Only when the item has been fully passed and accepted will it be released to blasting and painting all welding inspections are entered onto the piece monitoring system.

## NON DESTRUCTIVE TESTING

Welding Inspection & Non-Destructive Testing monitoring of welding variables like voltage, amperage and welding consumables is carried out per approved welding procedure specifications. In addition, visual inspection is carried out on 100% of each section to ensure highest quality in manufacturing

MSDBL is capable of performing UT, MPI & PT as per AWS D1.1/D1.1M-2006 requirements. Further, Kirby has the capability to carry out ultrasonic, radiography, MPI & PT if required the results of all NDT examinations are entered on the Piece Monitoring System.

## STRUCTURES FOR HIGH RISE BUILDINGS

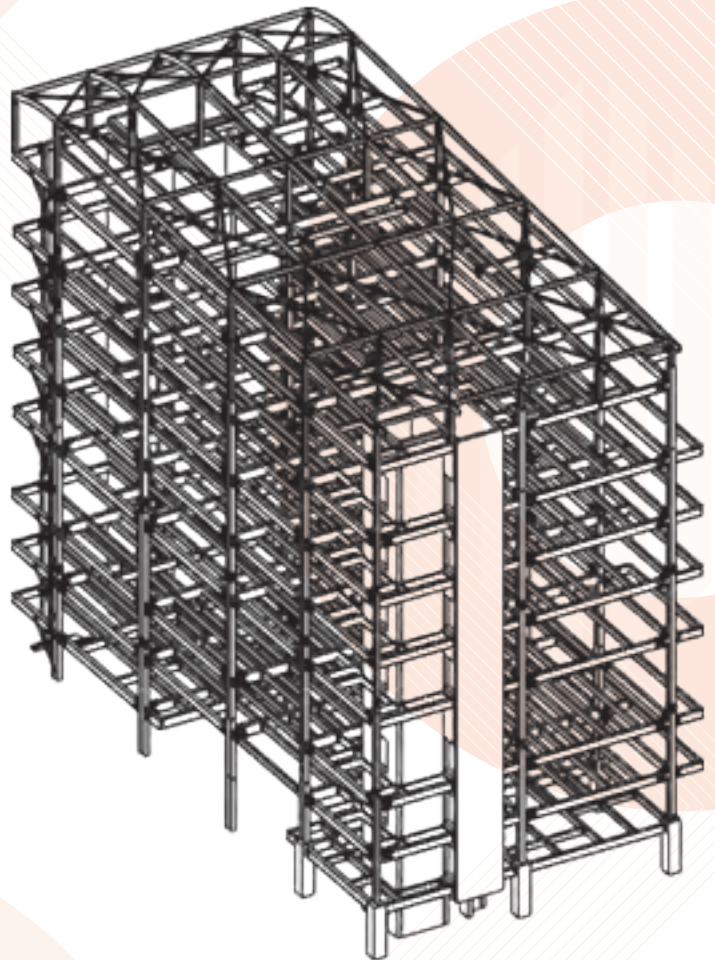
Masud Steel has facilities for production of complex structures required for Commercial buildings, such as offices, shops and mixed residential-commercial buildings, multi storey factory buildings, schools and hospitals.

The commercial sector demands buildings that are rapid to construct, of high quality, flexible and adaptable in application, and energy efficient in use. MSDBL has in house facilities for design and manufacturing of structures for high rise buildings. While designing the buildings due consideration is given to clear floor spans, cladding systems, painting requirements, services required and speed of construction.

We implement the concept and framework based on the needs of the customer, and then plan the final design incorporating all the specifications. This results in an optimized solution meeting expectations of esteemed customers.

The benefits of steel buildings for high rise construction are:

- Column free spans, permitting flexibility in use.
- Good accuracy as all members are manufactured using factory controlled processes.
- Ease of extension and adaptation in future including needs for re-service.
- Variety of cladding options.
- Long design life and ease of maintenance.
- Energy efficient design
- Less wastage and recyclability of material.
- Easy to dismantle and relocate.
- Building comfort with high levels of thermal insulation.
- Rapid and safe installation.
- Material deliveries are phased out so that storage space requirement is reduced



# COLD ROLL FORMED BUILDING



Cold formed steel structures are made from structural quality sheet steel that are formed into shape either through press-braking blanks sheared from sheets or coils or more commonly, by roll forming the steel through a series of dies.

No heat is required to form the shapes (unlike hot-rolled steel), and thus the name cold-formed steel. Cold-formed steel members and other products are thinner, lighter, and easier to produce and typically cost less than their hot-rolled counterparts.

CFS framing for floors and interior walls are very competitive with lumber and engineered wood products. CFS framing provides builder and consumers flexibility in design option that can not be economically accommodated using traditional framing materials (i.e., larger open space, longer spans and doorways).



# COLD ROLL FORMED BUILDING



## APPLICATION:

- Health Care Centres
- Community Centres
- Schools
- Site Offices
- Mass Housing
- Relief Camps
- Labour Camps

## SPECIAL FEATURES:

- Spans up to 15 m
- Clear height up to 3.0 m
- Variety of Sheeting: Galvanized, Galvalume
- Wall Options - sheeted, Block works
- Covered Ceilings - Roof Liners
- Insulation for Roof and Wall
- Partition Walls
- Custom-designed
- Special accessories like doors, windows, ventilators, etc.
- Defence Shelters



## FIRE SAFETY DESIGN

MSDBL structures are equipped with all fire safety precautions as per the needs of both customers and workers safety. The selection of members while designing the building is done based on the provisions of code and customers need, with the help of careful designing and selection of suitable fire protection system can meet stringent fire requirements as important aspects.

### Life safety

- The load bearing capacity of the building can be suitable for a specific period of time to evacuate the people and critical items.
- The generation and spread of fire and smoke within the works are limited.
- The spread of fire to the neighbour building is limited.
- The safety of rescue team is taken into consideration.

### Environmental Protection

- The effects of fire on adjacent buildings or facilities
- The release of hazardous materials into the environment, such as gaseous products of combustion and fibers into the atmosphere or pollution of the groundwater due to fire-fighting operations.

## “REACTION-TO-FIRE” CONCEPT

The reaction to fire is the degree of participation of a material to a fire to which it is subjected. Therefore it is a particular behaviour which takes on extreme importance in the early stages of a fire. In the growth phase of a fire, the following reaction-to-fire properties are important.

**Ignitability** this property determines the difficulty with which a material can be ignited from as small source of heat or flame.

**Non-combustibility** this property determines the difficulty with which a material burns, contributes heat to a fire, and produces smoke and toxic/irritant products of combustion.

**Rate of heat release** the rate of heat release determines the amount of fire effluent is transported throughout the building.

### Loss prevention

The implications of a fire on the continuing viability of a business can be substantial and consideration should be given to the limitation of damage to : The structure and fabric of the building; Building content; Ongoing business viability.

### Factors taken while designing

- Toxicity and irritancy of combustion products
- Temperature/radiation intensity of combustion products
- Obstruction caused by combustion products
- Protection of steel structure using paint and fire resistant boards

**Flame spread** This property indicated the speed at which flame spreads across the surface of a material.

**Melting and shrinkage** Some materials shrink away from the heat source and form molten droplets, which fall down and flame on contact with the fire, contributing to spread the fire front.

**Corrosion** Many materials used in steel building produce gases such as hydrogen chloride that corrode metals.

### Categorization of materials as per fire reaction (EN 13823):

Material	Non combustible		Moderately combustible			Combustible	
Class	A1	A2	B	C	D	E	F

# FIRE SAFETY

## “REACTION-TO-FIRE” CONCEPT

While fire reaction is extremely important in the initial growth phase of a fire. Fire resistance behaviour is important after flashover occurs. Fire resistance is the ability of maintaining the integrity of structure to:

- To resist collapse
- To resist the penetration of flames and hot gases while, at the same time, maintaining structural integrity.
- To keep the unexposed face sufficiently cold so as not to ignite materials which come in contact with it.

## FIREPROOFING SYSTEM

Fireproofing system on structural steel can be cementitious or intumescent coating. The thickness of fire paint depends on shape factor of the steel member cross section which is defined as a ration of perimeter of section to the minimum thickness.

**Intumescent fireproofing** designed for the fire protection of steelwork for up to 3 hours fire rating, depending on the design. The recommended use for this product is fireproofing of interior steel beams, columns. It must be applied over a compatible primer. It is not for use in exterior environments or for interior steelwork that will be exposed to freeze/thaw cycling or long-term surface temperatures over 140°F (60°C) in normal use.

### Features:




- UL/ULC listed - designs for many types of steel sections. Up to 3 hour fire ratings for both interior general purpose and interior conditioned space applications.
- Decorative finish - provides a smooth, decorative finish. Compatible topcoats available in a wide range of colors.
- Durable finish - provides a hard, dust free surface resistant to normal wear.
- Thin film coating - offers an economical solution to alternative fireproofing.
- VOC compliant.
- Easy repair - if damaged it can be repaired easily using material as putty.

**Cementitious fireproofing** supplied as a single powder component that is mixed with clean, potable water prior to application. It is designed to fireproof interior structural beams, joists, walls, roofs, decks, girders, columns.




### Features:

- Cementitious - Durable, remains in place during construction and beyond.
- Excellent film build - On all surfaces including columns, beams and decks.
- Applicator friendly - High film build, no alum required for increased coverage and easy clean-up.
- Mineral - Wool free - No airborne fibers.
- Alum and Chloride free - No special priming required.
- Styrene free - No toxic decomposition gasses.
- Economical - Maintains project on budget.
- Quality Manufactured - Under strict Carboline quality standards.
- Ready to Use - No site additives required.

The engineering department uses the latest versions of internationally renowned industry standard 3D and 2D software for designing and detailing. MSDBL upholds its position at the cutting edge of the industry due to its commitment to quality and customer satisfaction. Skilled structural engineers using the very latest in computerized engineering design and detailing systems that permit the selection of the most economical, accurate and efficient framing and cladding systems. The Engineering Department is fully computerized, utilizing the latest software packages to enable them to produce the most economical structures in the shortest time possible. The software packages most frequently used are:

Package	Description	Specifications/Codes
	Hot-Rolled & Built-up Sections	BS 5950 A.I.S.C
	Design of steel connections and column base plates	BS 5950
	Multi-storey building analysis and design	A.I.S.C

The Drafting office is also fully computerized and uses the following main software packages:

Package	Description
	Preparation of GA Drawings & Fabrication Drawings - Miscellaneous Works
	3D Modeling - Detailing of Connections - Automatic Generation of Fabrication, Drawings, Production & Material Listings
	Manage detailing, fabrication and erection of steel structures

## APPLICABLE DESIGN CODE

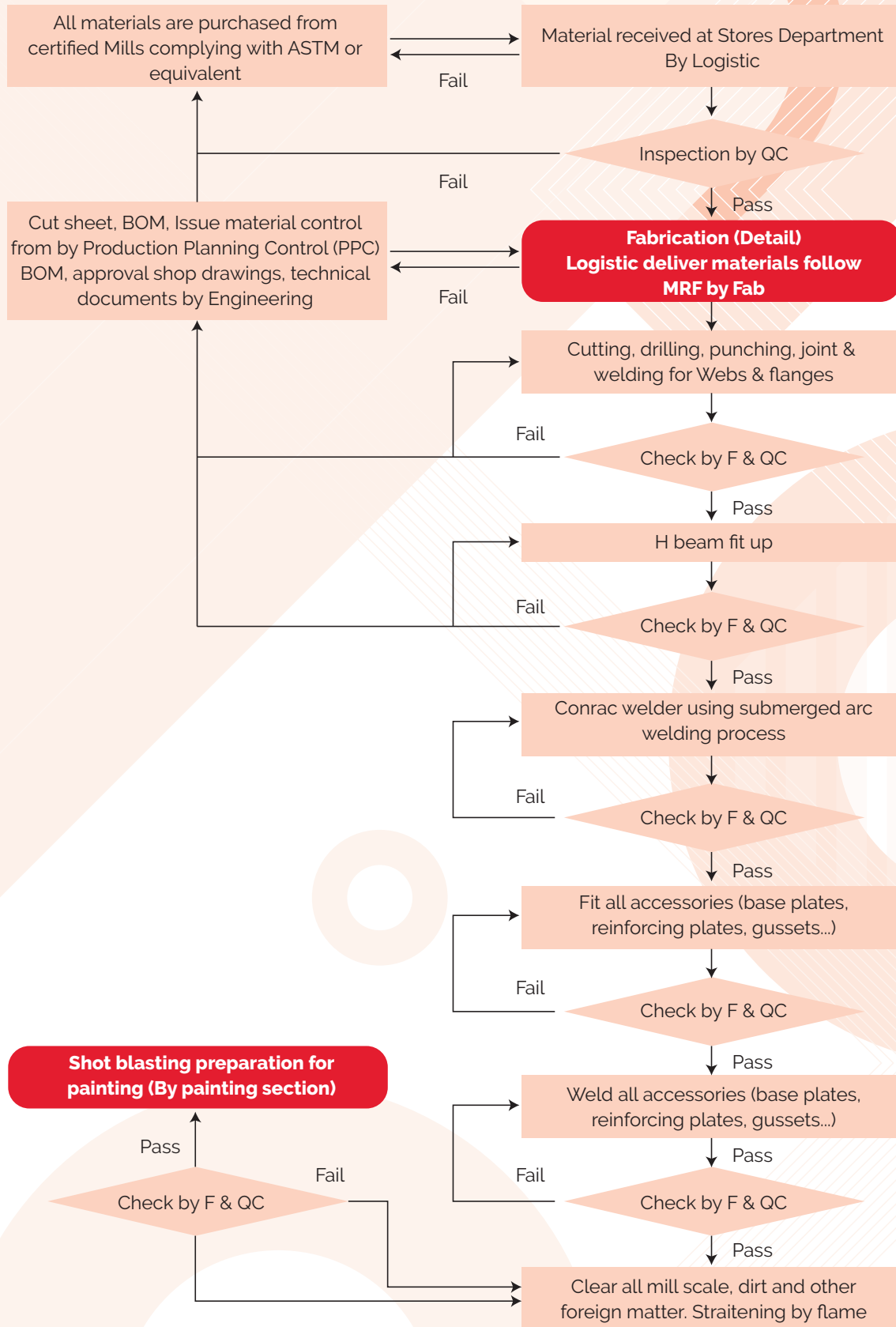
- Bangladesh National Building Code (BNBC)
- Specification for Structural Steel Buildings, American Institute of Steel Construction, North American Specification for the Design of Cold-Formed Steel Structural Members - AISC March 9, 2005 Latest Edition (ANSI/AISC 360-05) for Working Stress and AISC 360-10 for Limit State Design.
- American Iron and Steel Institute, AISI 2007 Latest Edition and NAUS 2007.
- Metal Building Systems Manual, Metal Building Manufacturers Association, BMA 2010 latest Edition.
- Minimum Design Loads for Buildings & other Structures.. ASCE/SEI 7-10 latest Edition.
- International Building Code 2012 (IBC 2012) Latest Edition.
- Structural Welding Code-Steel, American Welding Society, AWS D1.1/D1.1M-2008 latest Edition.

## MATERIAL SPECIFICATIONS

All materials conform to the following specifications or equivalent

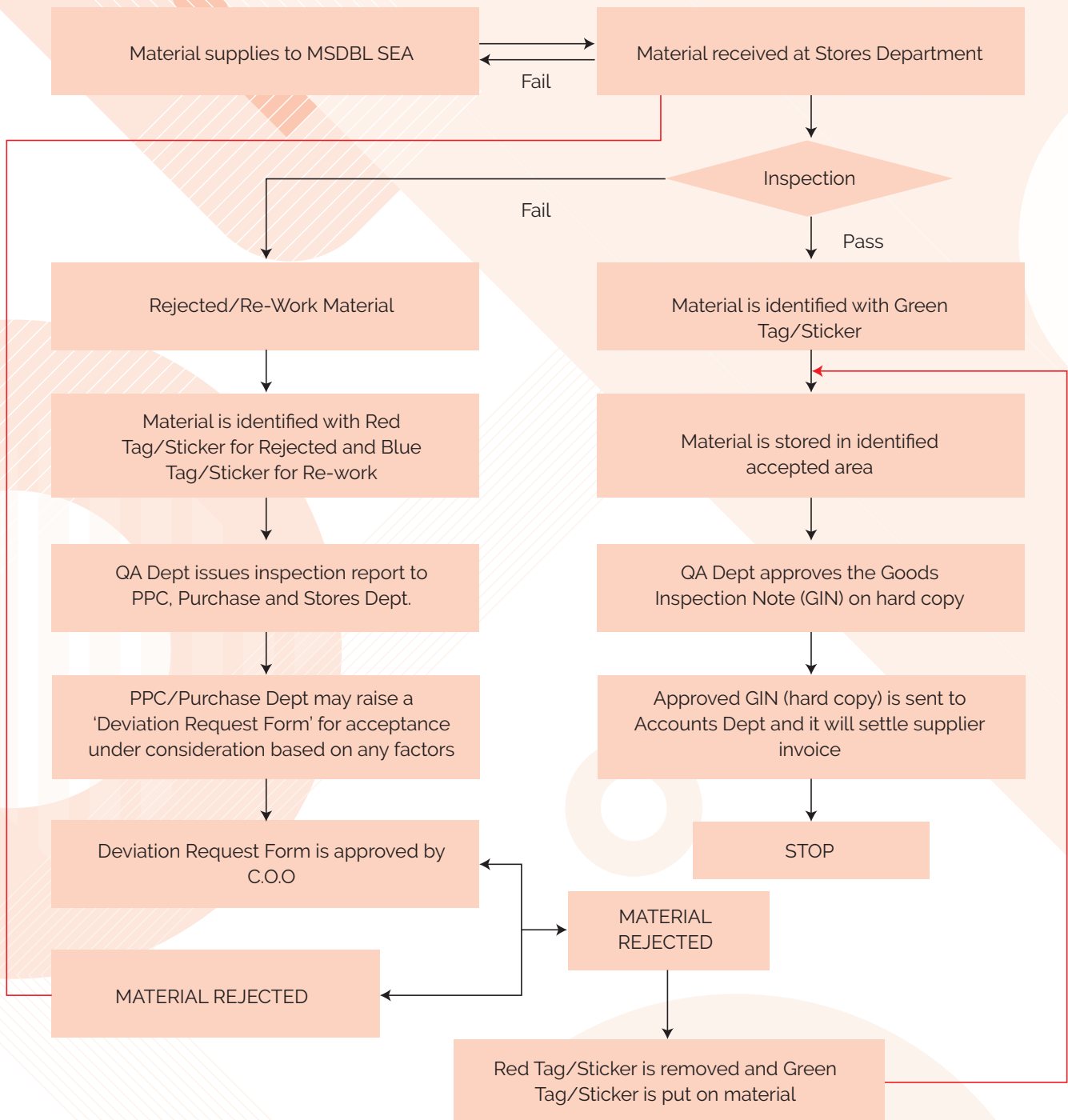
1) Built-up Sections	ASTM A 572 Gr 50	(Fy = 50 Ksi)
2) Hot-Rolled Sections	ASTM A 572 Gr 50	(Fy = 50 Ksi)
3) Rod-Bracing	ASTM A 36	(FY = 36 Ksi)
4) Tubes: SHS	ASTM A 500 Gr 'C'	(Fy = 48 Ksi)
CHS	ASTM A 53 GrB	(Fy = 36 Ksi)
5) Cold-Formed Sections	ASTM A 1011/A607	(Fy = 65 Ksi)
6) Roof & Wall Sheeting	ASTM A 792 Gr 50	(Fy = 50 Ksi)
7) High Strength Bolts	ASTM A 325	(Fy = 95.6 Ksi)
8) Anchor Bolts/Rod-Bracing	ASTM A 36	(Fy = 36 Ksi)

# FABRICATION PROCESS FLOW CHART

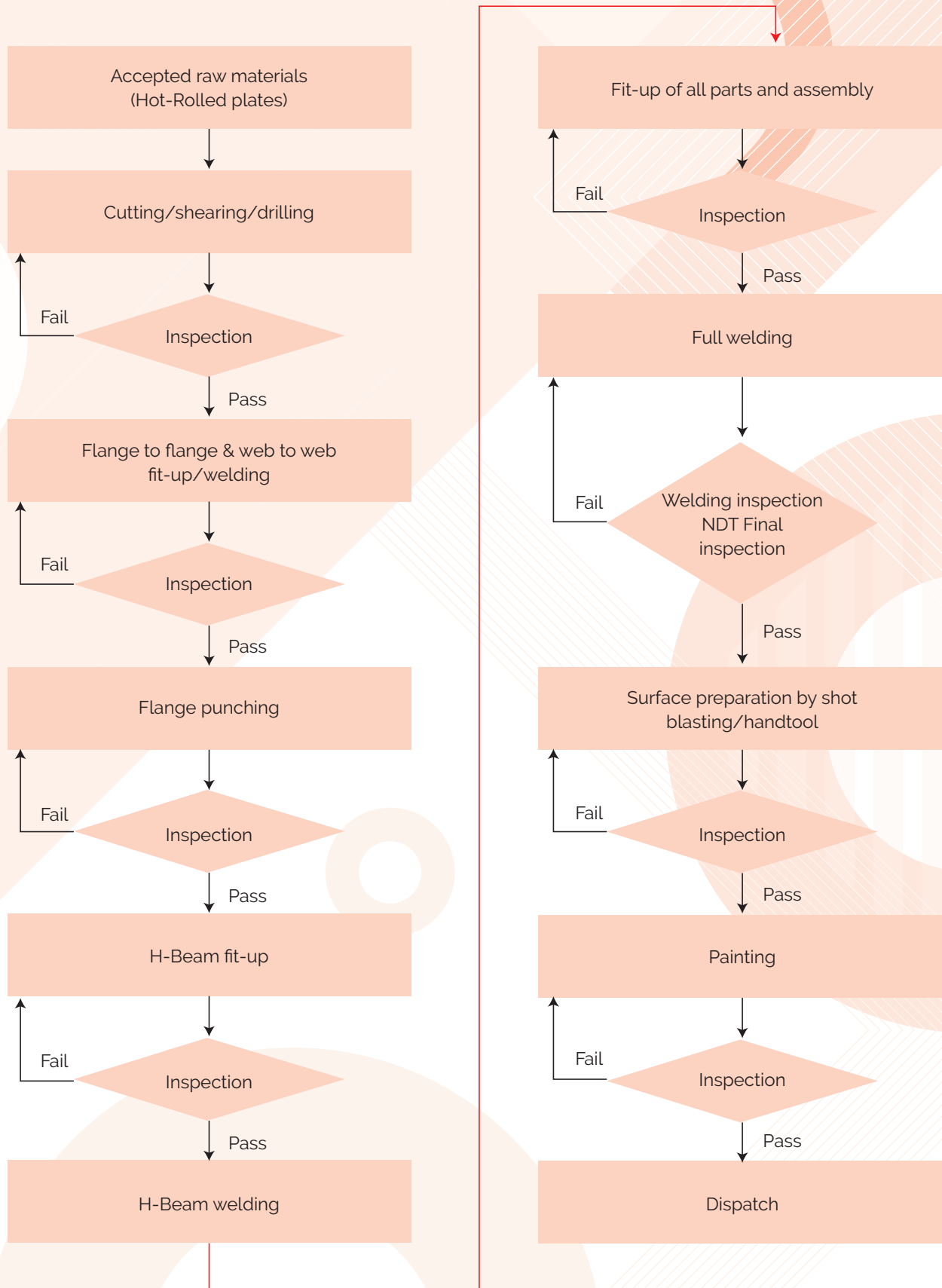




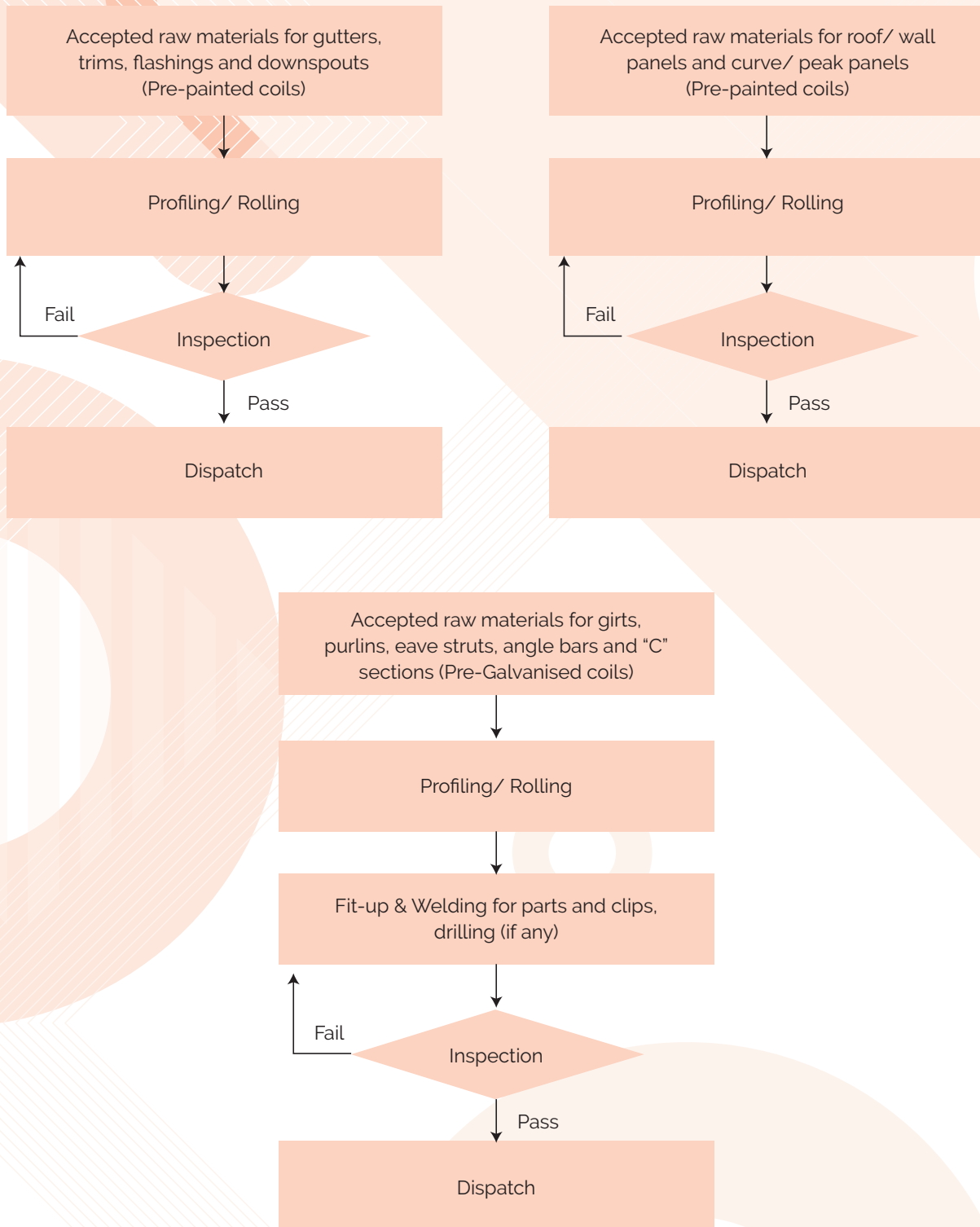
## MATERIAL CONTROL FLOW CHART



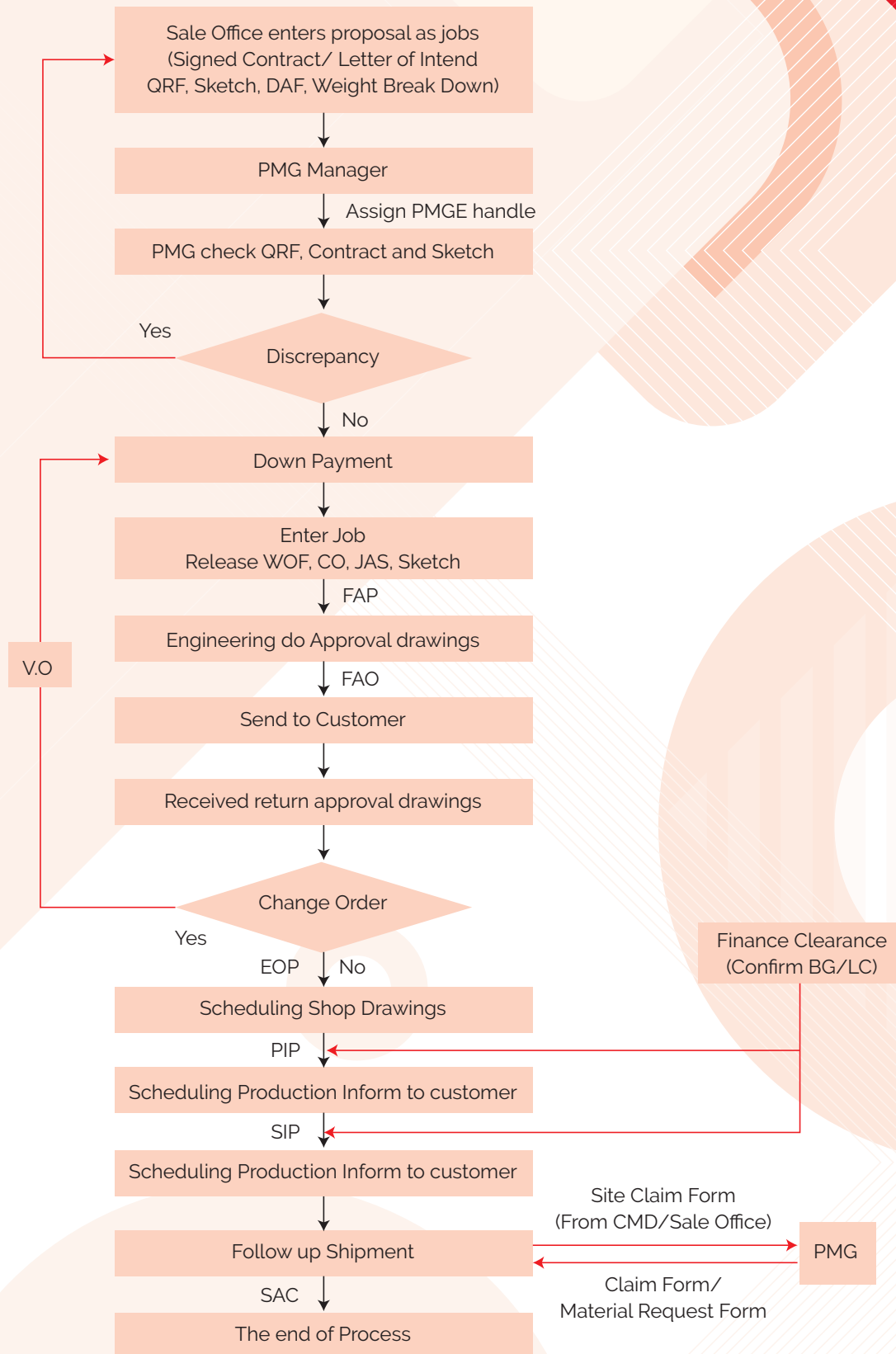
# H-BEAM LINES CONTROL FLOW CHART



## COLD FORM & SHEETING LINES



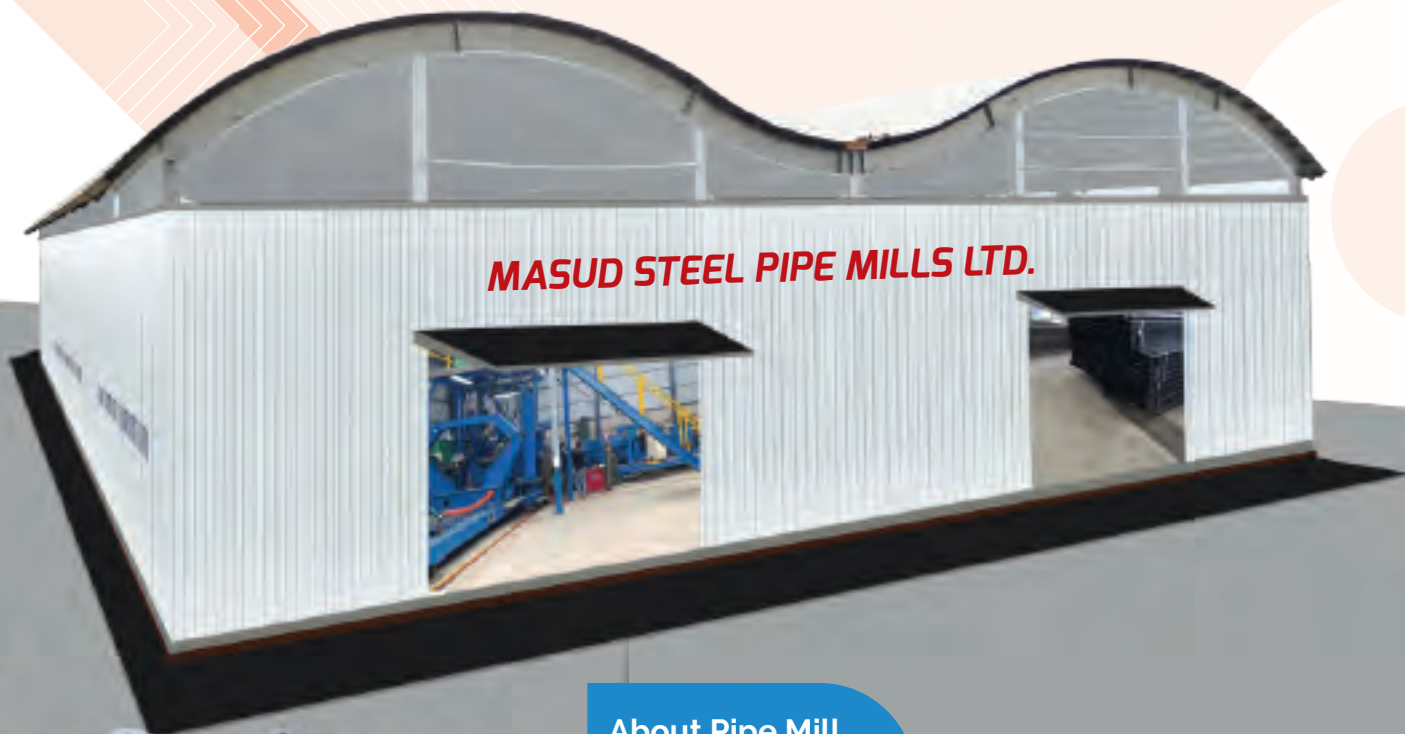
# PROJECT MANAGEMENT





# PIPE MILL FACTORY BUILDING

Masud Steel Pipe Mills Limited is a concern of Masud Steel Design BD. Ltd. Where we produce MS and GI Pipe of varieties type and range with pipe bending facilities (50mm to 300mm).



## About Pipe Mill

Total Land Area: 28,00,000 sft  
Pipe Mill Area: 50,000 sft  
Total Production Capacity: 60,000 MT/year  
Raw Material Storage Area: 30,000 sft

## OUR PRODUCT

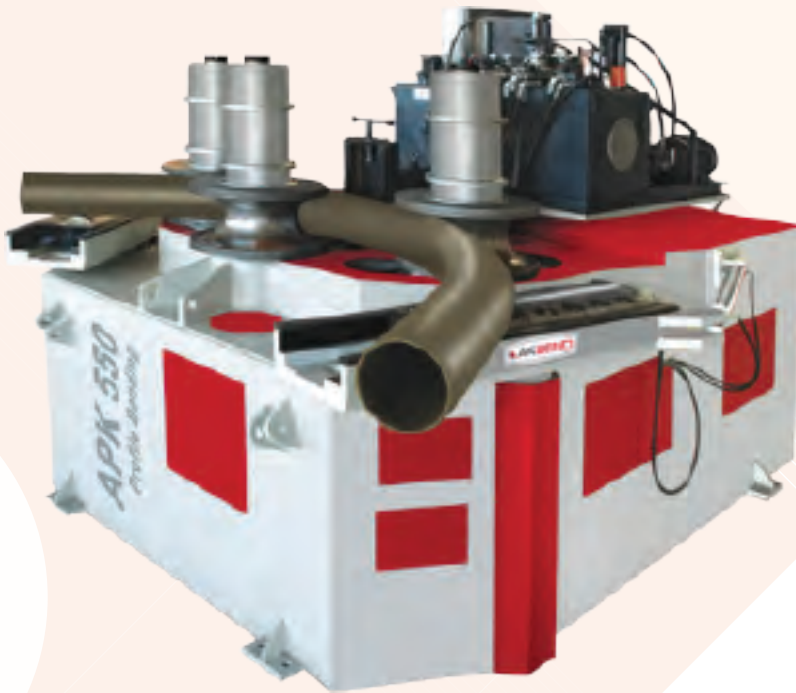
- Round Pipe
- Square Pipes
- Rectangles Pipe
- Plane Sheets
- Pre-painted Corrugated And Steps Sheets

**Thickness** : 1.2 mm to 8.00 mm

**Diameter** : 15 mm to 325 mm

**Materials** : Hot Roll (Black Steel), Coild Finished Steel

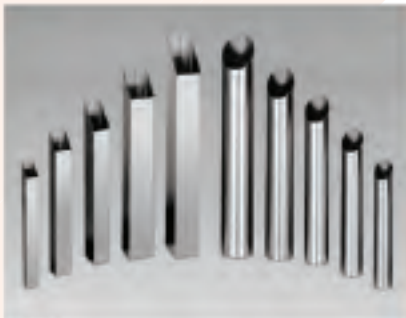
# PIPE MILL



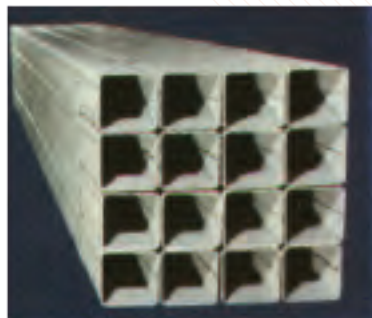
## Pipe Bending Machine

Model: APK 550  
Capacity: 50mm - 200mm  
Brand: AKYAPAK  
Made in Turkey

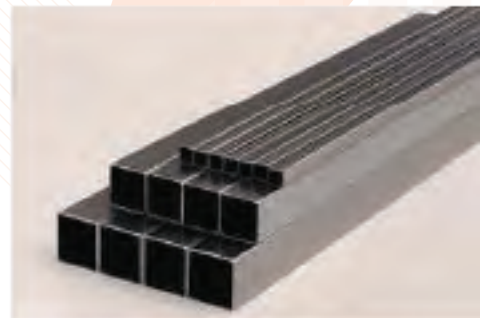
## OUR PRODUCTS



Round & Rectangular Pipes



Square Tube



Rectangular Tubes



Round Pipes

# TRANSPORT DELIVERY & ERECTION



# TATA JUMBO TRUCK

Loading Capacity: 16-20 ton



## TRAILER WITH POWER

Length 40', Loading Capacity: 30 Ton





# HYDRAULIC CRANE

TADANO 60 Ton, 20-35 Ton, 10-15 Ton



# EQUEPMENTS



**NIBBLER**

**IMPACT WRENCH**



**SCREW GUN**



**GRINDER**



**HAMMER DRILL**



**LIGHT DUTY SCAFFOLDING**  
Height 5 Ft

**D SHACKLES**

Capacity : 300 kg



# EQUEPMENTS



**TOTAL  
STATION**



**AUTOMATIC  
LEVEL**

**THEODOLITES**





# COMPLETED PROJECTS BY MSDBL



Chemical Godown, Nice Denim Mills Ltd.



Knit Dyeing - 3, Noman Knit Composite Ltd.





Chemical Godown, Nice Spun Mills Ltd.



Raw Cotton Godown, Nice Spun Mills Ltd.

# COMPLETED PROJECTS BY MSDBL



Raw Cotton Godown, Noman Knit Composite Ltd.



Knit Dyeing 1 and Knit Dyeing 2, Noman Knit Composite Ltd.





Accessories Shed Building, Zaber & Zubair Mills Ltd.



Knit Dyeing - 2, Zaber & Zubair Mills Ltd.

# COMPLETED PROJECTS BY MSDBL



Admin Building, Nice Denim Mills Ltd.



Six Storied Bachelor Quarter, Nice Spinning Mills Ltd.



# ONGOING PROJECT BY MSDBL

## BGB HANGAR AT CHITTAGONG AIRPORT



# ONGOING PROJECT BY MSDBL

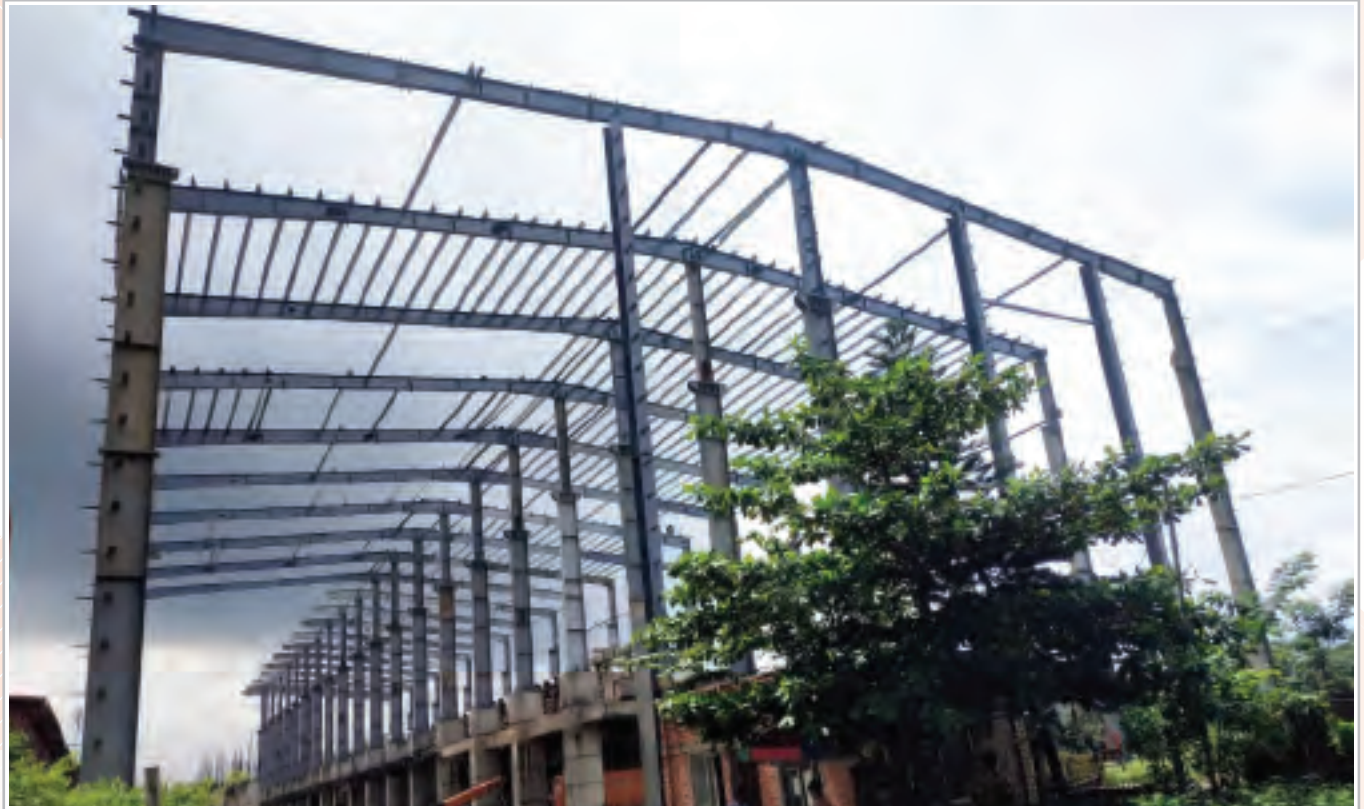
## BGB HANGAR AT CHITTAGONG AIRPORT





# ONGOING PROJECT BY MSDBL

## AMBER KRAFT PAPER LTD. AT VULTA, NARAYANGANJ





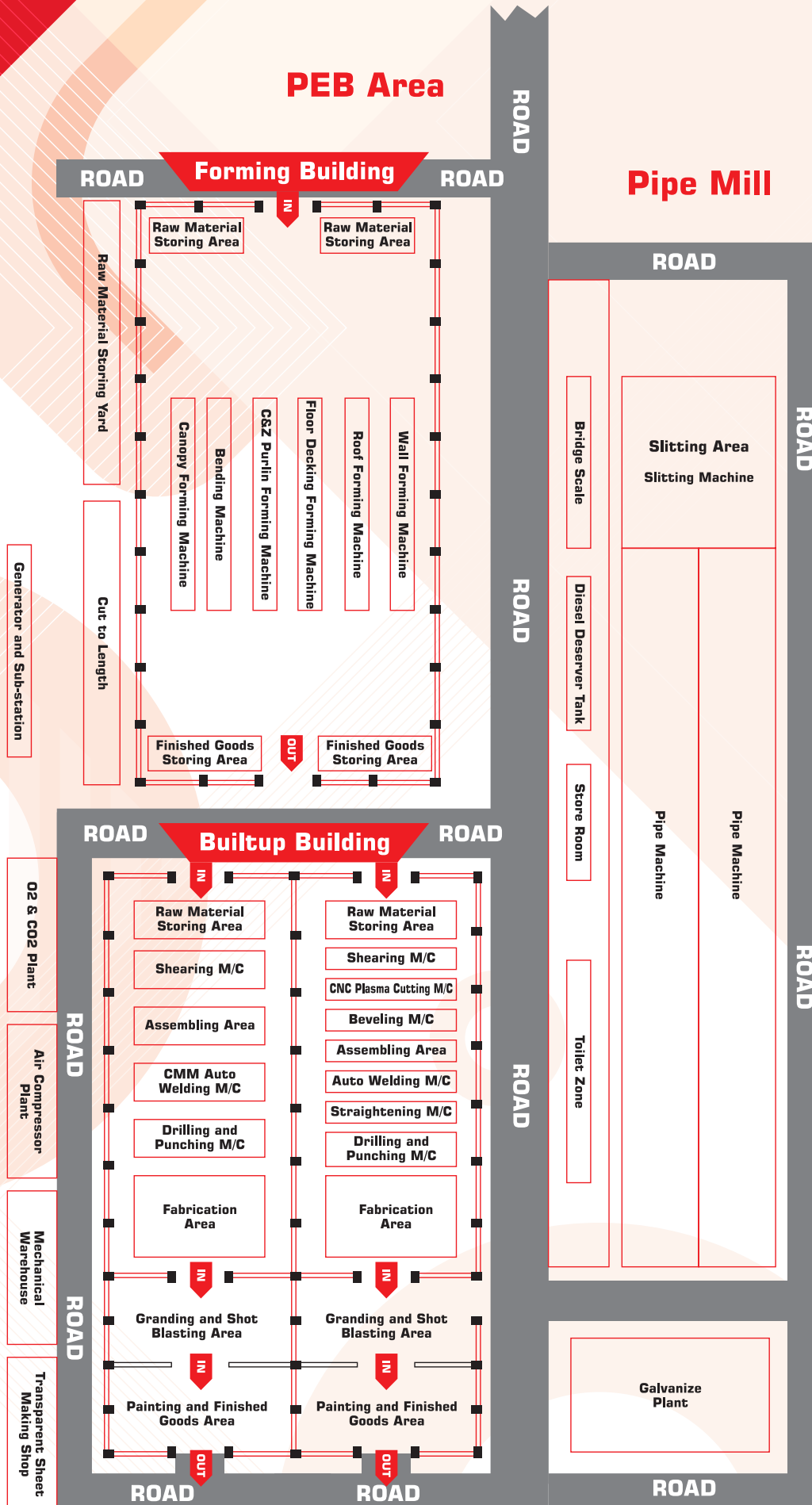
# ONGOING PROJECT BY MSDBL

## AMBER GENERATOR HOUSE AT VULTA, NARAYANGANJ





# MASTER LAYOUT OF FACTORY





••• **BETTER THAN BEST** •••

**MSDBL**

**MASUD STEEL DESIGN BD. LTD**

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