



# New Life Steel Structures

*....Building Imagination*



ISO 9001:2015

32+ YEARS OF SERVICE



# New Life Steel Structures

**32+** Years of experience

**10000** Sqft Production area of Facility

**20+** Countries exported...

**1000000+** Sqmtr area constructed



## Certification & Appreciation Letters



# ....Building Imagination

## Our Products & Services

Pre-Engineered Buildings	Multi -Storey Steel Buildings
PEB/Industrial Sheds	Cable Gallery
H Beams	Aircraft Hangers
Standing Seam Roofing Sheets	Cold Storage Structures
C & Z GI Purlin	PEB Accessories
Portable Cabins	Godown Sheds

## Applications

- Heavy Industry Plants
- Commercial & Residential Buildings
- Steel Plants
- Aircraft Hangers
- Hospital Buildings
- Site Offices
- Community Halls
- Power Plants
- Chemical Plants
- Oil & Gas Structure
- Factory Sheds
- Car Parking
- Warehouses
- Canopies

## Product Facility

The state of art is located at Palghar industrial state (Dist - Palghar), which is one of the epicentres of our manufacturing facilities. Fabrication of steel structure is supervised by experienced staff and certified. We have excellent work force and enough space to handle any amount of work.

Design	Our experienced engineers work closely to design pre - fabricated structure, space frames as per owner's requirement & site conditions.
Manufacturing	Shop drawings are sent to the factory for fabrication; manufacture all structural members and accessories for complete installation.
Installation	The pre-fabricated structures or space frames are assembled on the ground and installed using crane or scaffolding. The structure will undergo full and complete final inspection after installation.
Quality Control System	All structures are designed and manufactured strictly according to <b>ISI specifications</b> ensuring maximum safety and economy by making optimum use of quality raw materials and sheets



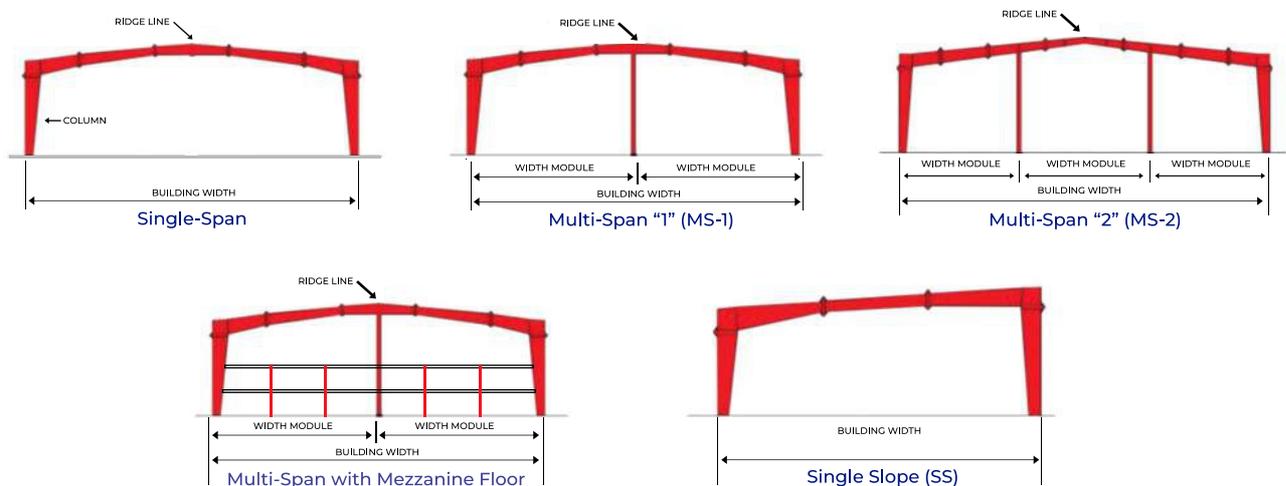
## Components of Steel Structures

**New Life Steel** building is made up of primary members, connection, roof sheeting, wall sheeting, sheeting fasteners, sealer, closures, ridge, caps, flashings and trim, gutters and downspouts.

### 1. Primary Members

Primary structural framing shall include the transverse rigid frames, lean-to-rafters and column, canopy rafters, interior columns (beam and column frames), barring frame rafters corner columns and end wall wind columns. Structures are made of submerged welding process with high-speed machine and yield strength 245-345 MPA based **IS 2062 : 2011 HOT ROLLED MEDIUM AND HIGH TENSILE STRUCTURAL STEEL**.

#### TYPES OF PEB STRUCTURES



### 2. Secondary Members

Secondary structural framing shall include the purlins, girts eave struts, wind bracing, base angles, clips and other miscellaneous structural parts.

### 3. Paint

All structural members are cleaned by wire brushing to remove dirt, grease, oil and loose mill scale. For increasing lifespan of anti-corrosion on steel there is Shot Blast SA 2.5 (As per customer requirement) which ensures no visible grease, dirt, oxide scale, rust, paint coating and other attachments on the surface of the steel and any remaining traces should only be light spots or strips. There are various options in paint range from Epoxy paints, Polyurethane paint, synthetic paints with range of primer applicable.

# ....Building Imagination

## 4. Connectios

All field connections shall be bolted. Primary bolted connections shall be furnished with high strength bolts confirming to the physical specifications of ASTM 325 (or Equivalent) Secondary bolted connections shall be furnished with machine bolts confirming to the physical specifications of ASTM 325 or equivalent.

## 5. Roof Sheeting/Wall Sheeting

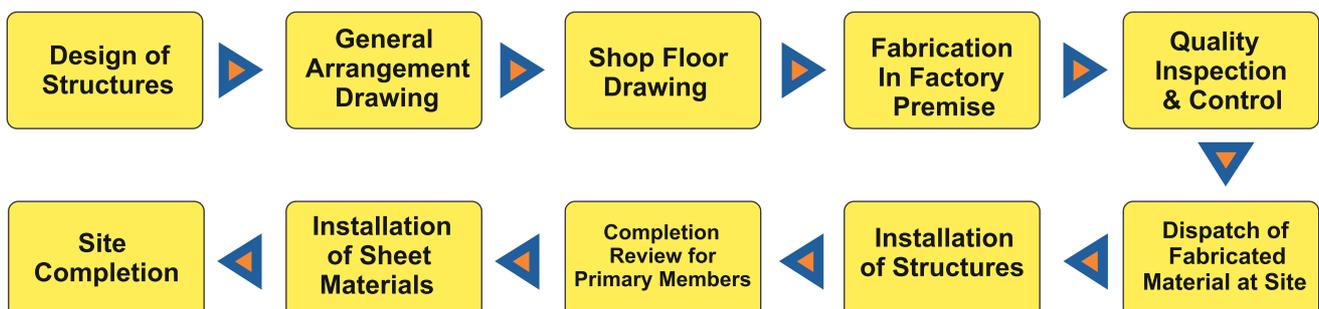
Roof and wall panels shall be of 26 gauges thick profiled galvalume / galvalume colour coated / G lcolour coated steel sheeting. In case of pre-painted galvalume panels, the exterior face is pre-painted with 1 mil. thick factory applied polyester paint. The interior face is pre-painted with 0.5 mil. thick factory applied polyester paints. Each panel shall be white / grey. Other materials, thickness and coating are available upon request.

## 6. Sheeting Fasteners

Standard fasteners shall be self-tapping sheet metal screws with metal and neoprene washers. All screws shall have hexagonal heads.



### Process Flow — Steel Structures





## 7. Physical Specifications of Structural Members

- A. Members fabricated from plates shall have flanges and webs joined on both side of the web by submerged welding process having a minimum yield strength 345 mpa.
- B. Members fabricated by cold forming process shall have a minimum yield strength of 345 mpa.
- C. Members fabricated from hot rolled structural shapes shall have a minimum Yield strength of 250 mpa.
- D. Rod and angle bracing shall have a minimum yield strength of 250 mpa.
- E. Roof and wall cladding shall confirm to physical specifications have a minimum Yield strength of 345 mpa.
- F. All other miscellaneous secondary members have a minimum yield strength of 250 mpa.

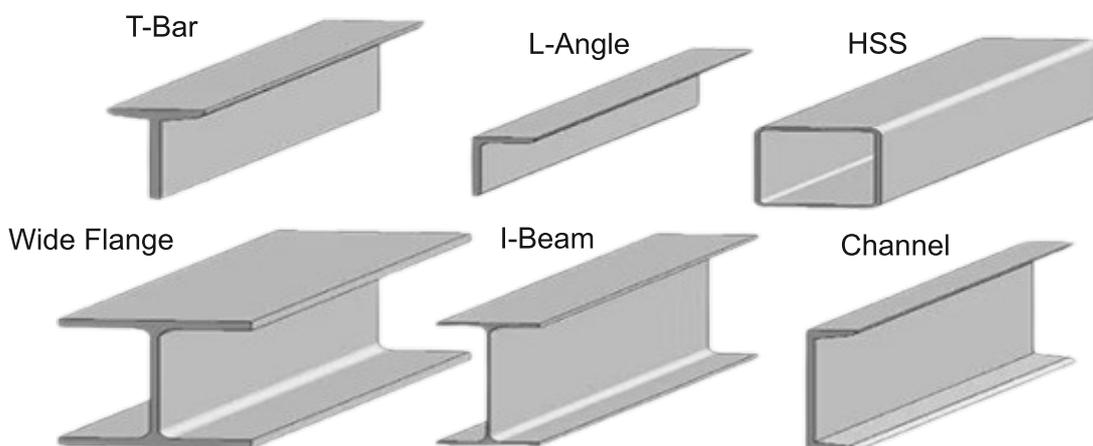
## 8. Beams

Welded I-beam is used in the construction industry for assembly of support structures. It is an analogue hot-rolled beam manufactured by welding of steel plate.

A welded beam consists of three individual sections of steel - a web, a top flange and a bottom flange. These segments are merged together with deep fillet welds to create an incredibly robust building material.

It is used as gantry beams for cranes support structures etc.

### Types Of Beams



## 9. Purlin

C & Z Purlin are revolutionary products which are technically approved and accepted all over the world by architects and engineers. Its extraordinary shapes increases its strength and load taking Capacity. Usage of Z purlins leads to cost saving upto 50% in structural steel as compared to traditional rolled section (Like Angle / Channel / Beams) and hollow sections like (Round Pipes / SHS / RSH.) it's available in customised lengths, thus there's no need of any fabrication, cutting or welding at the location . Hence there's no material wastage or fabrication cost. it's also available in various thickness and sizes. The purchasers even have the choice to shop for top quality Galvanised Z purlins.

## 10. Advantages of NLSS Purlin

- Very high strength at low cost.
- Economy due to reduction in dead weight on the main frame structure.
- Ability to span long lengths.
- No site drilling or cutting required.
- Purlins are factory finished, cut to application of proper surface finish.
- Continuous splay and splicing for better structural strength, stability and economy.



### TECHNICAL & MATERIAL SPECIFICATION

<b>Thickness</b>	1.5mm to 3mm
<b>Length</b>	Upto 12000 mm
<b>Material</b>	CR Steel as per IS : 513 / HR as per IS : 1079
<b>Yield Strength</b>	245 MPA to 345 MPA
<b>Type</b>	Galvanized purlins made of cold rolled coil width 70 GSM/ 120 GSM/275 GSM coating as per customer requirement.



# New Life Steel Structures

## 11. Roofing Sheet

New Life profile sheet is made from the finest quality cold rolled steel coils which are coated with protected metallic and reinforced with multiple layers of organic coatings. New Life profile sheet can be readily roll-formed, bent, pressed, cut, lock-seamed and stamped to suit the specific requirement without degradation in the quality of the paint.

Applications	Advantages
Industrial Roofing	Weather proof & light weight
Cladding, Side Cover & Borders	Maintenance free and long life
Warehouse	Easy and Quick to install
Buildings	Various colour features



Roof and wall panels shall be of 26 gauges thick profiled galvalume / GI colour coated steel sheeting. The standard specification of thickness ranging from 0.4mm—0.6 mm is used in the industry wide range.



## 12. Standing Seam Roof Sheet

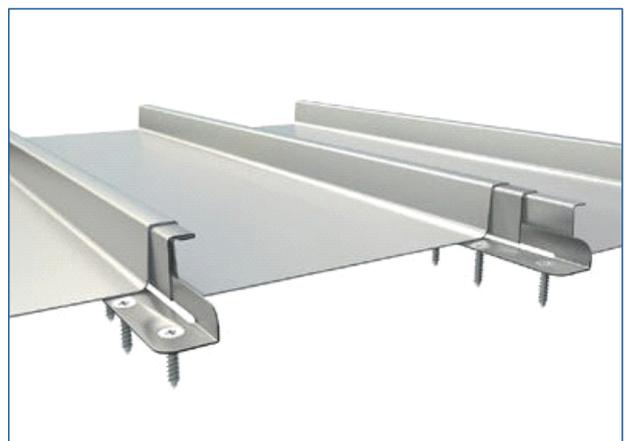
Standing seam roofing is a type of metal roofing, where metal roof panels / sheets are positioned vertically along with roof length. The seams of these panels are interlocked with each other with help of clips. These are also known as double lock systems. Standing seam is concealed clip assembly is roll formed or crimped into the panel seam without any drilling in the sheet. These clips perform two functions - they secure the panels to the structural system, reducing the need for structural fasteners, and they enable the roof to expand and contract as the outside temperature changes.

### STANDING SEAM ROOF SHEET - BENEFITS

<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>
<b>Longevity</b>	<b>Versatile</b>	<b>Performance</b>	<b>Wide Cover</b>
Since fastener is not used no maintenance is required and life is longer for sheet	Ideal for roof and reroofing application ranges from commercial for residential building.	Excel in high winds. Fire Resistance and Dependable.	Single sheet used in span so easy installation.

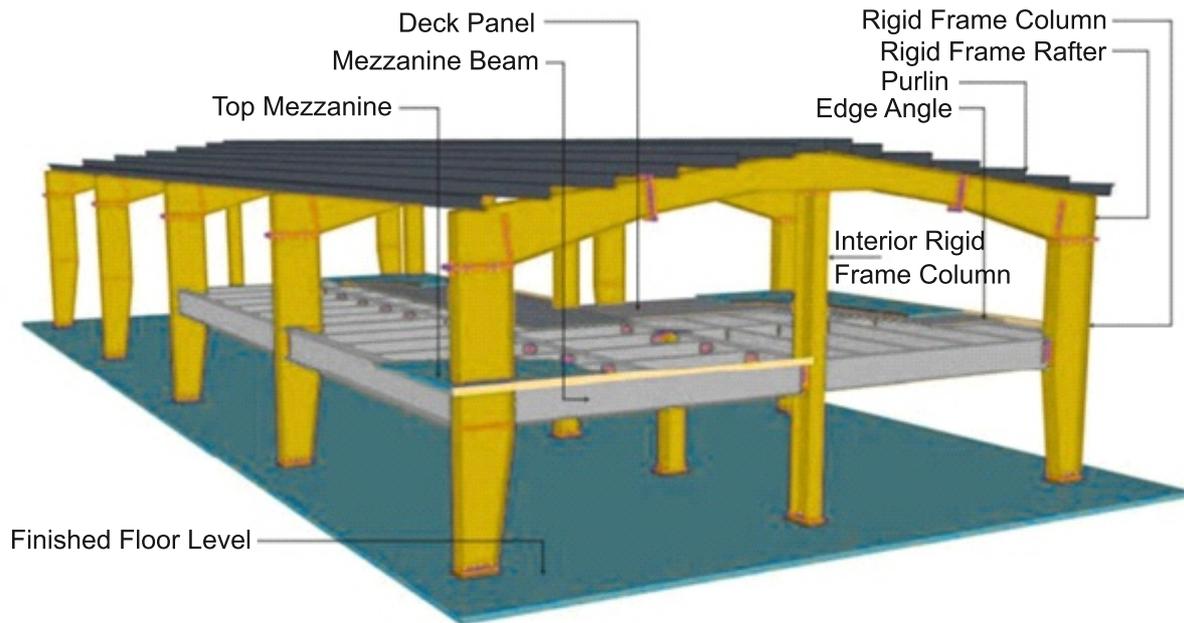
	Roof Sheet	Standing Seam Roofing Sheet
Joint	Large Number of Joints in the Sheet	Less number of Joints   sheet
Production	At Factory premises	At Factory premises or at site based on length of sheet required
Longevity	4-10 years	10-15 years

Mechanically seamed panels are also roll formed with specific edges that line up with each other. Once the two panels are engaged, a hand or mechanical seamer bends the edges and locks the panels together. These type of sheets are widely used in airports, Commercial building and offices to ensure its longevity. Currently industries have also started using this even though it is commercial coating more than normal sheets. The reason is due to maintenance cost later on in normal sheet and also the products inside the structures is worth more value than the one-time investment in standing seam sheet.





## 13. Mezzanine Floor



Mezzanine is elevated flooring system located inside the pre-engineered building. Mezzanine are commonly used to accommodate office or to service storage areas. The clear height above FFL is 3m for any mezzanine but is changeable as per requirements. Primary and secondary mezzanine members are normally analyzed in design for considering loads as per usage. The mezzanine floors can be a temporary or permanent storage solution as per the building regulations and can be installed in any industrial warehouses, libraries, offices, commercial complexes, and others having huge buildings with multiple floors. They are easy to construct and dismantle at the time of requirement thus making them the best and most flexible storage solutions.

**While specifying a mezzanine it is important to provide following information.**

1. Live Load on mezzanine
2. Type of mezzanine finished surface
3. Location and Type
4. Location of handrails
5. Type of flooring such as vinyl, tile, deck sheet
6. Clear heights from ground level and from top level

## 14. Pre Fab Structures Addition

### 1. Ridge Ventilator

Ridge vent is usually made from color coated sheets material. It draws hot, most attic air out through the ridge vent and pulls fresh air into the attic through the soffit vents.



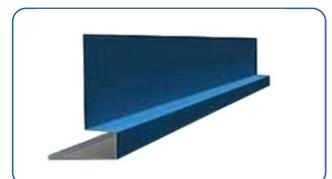
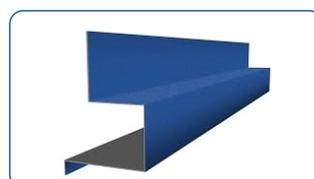
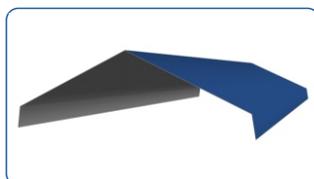
### 2. Louvers/Industrial Louvers

Louvers are generally used in industrial and storage buildings. They form a part of the ventilation system that is often required to reduce the build-up of dust, vapor, and heat inside buildings to practical levels. It provides air flow in the building and gives healthier environment.



### 3. Flashings

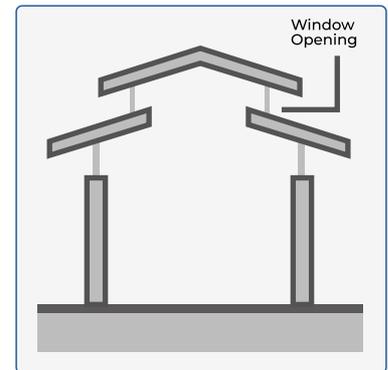
Flashing is a sheet thin, impervious used to prevent water penetration or seepage into a building and to direct the flow moisture in walls. Flashings is particularly important at junction such as roof and valleys, joint between roof and vertical walls, roof intersections or projections such as chimneys, vent pipes, window openings and so on.





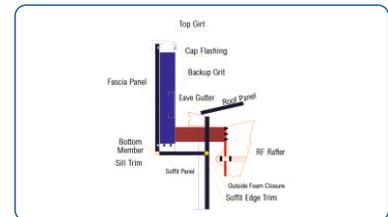
## 4. Roof Monitor

Roof monitor combines economy, good appearance and easy erection. The size of the monitor can be adjusted to suit exact ventilation and lighting requirements. The overhang part is detailed to give a 45° protection from the rain. A light wire mesh is installed at 45° to prevent intrusion of birds. A curved eave panel may be incorporated at the eave of the monitor. It is very conducive to tropical areas where rainfall is normally heavy. Generally, roof monitors are made of lightweight, yet strong, coldformed sections. Built-up sections and hot rolled sections are used for the framing members when the roof monitor is large and design warrants their use.



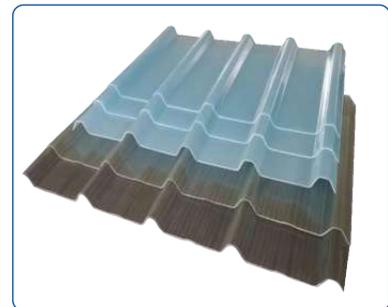
## 5. Fascia

A Fascia system a Pre-Engineered Building enhances the appearance and transforms an ordinary-looking structure into an attractive building. The vertical panel makes the building look conceal the slope type of structure and give different look..



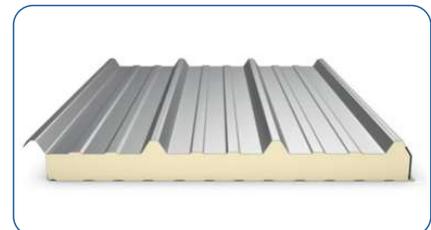
## 6. Polycarbonate Sheets

Polycarbonate sheets is generally replacing glass, toughened glass and polyethylene membrane in many fields such as agriculture, industry, public buildings and ornaments. It is a perfect combination of lightweight, high impact strength, light transmission, frame-resistance, UV protection, anti-drop as well as charming appearance. Polycarbonate sheets are clear, impact-resistant sheets made from thermoplastic polymers that incorporate carbonate groups in their chemical structure. These polymers consist of plastic material and you can heat to alter their form.



## 7. Insulations

The plays a role in construction of warehouse keep the environment cooler inside the structure. This educes emissions, noise and cost to keep the atmosphere comfortable inside warehouse. There are various options ranging with different thickness and material specifications. Polynum insulation, Glasswool insulations, Sandwich Panels are some of the regular insulations that are opted based on the usage of structure.



## 8. Turbo Ventilator With Polycarbonate Base Plate

Turbo ventilators or eco ventilators whose purpose is to help to vent the air from inside the premises into the atmosphere. The ventilators are self equipment installed in the roofs to extract inside air. They dont't require additional energy as they are operated by the at atmospheric wind and in doing so, inside air is exhausted through it and the natural in ward flow of fresh air is boosted.



# ....Building Imagination

## 15. Some of our Top Clients



## 16. Structural Steel Delivery Module

### Off Site Fabrication Delivery (PEB)

### Onsite Fabrication Delivery (Conventional / RCC)

Timeline	Less time to Construct	More Time to Construct
Quality	Standard components manufactured with controlled environment at factory leading to less quality issues	Issues in Quality occur due labour work at site and way of working is not standard
Wastage	Minimal wastage occurs	Wastage is high due to unorganized nature of site
Limitations	Factory environment has availability of skilled labor and supervisors	Availability of skilled labor at site



# New Life Steel Structures

## Our Projects Highlights



Ahmedabad



Gulfport-USA



Kaman, Vasai



Poman, Vasai



Ahmedabad



Nagpur

# ....Building Imagination

## Our Projects Highlights





# New Life Steel Structures

## Our Projects Highlights



Sagamner, Nashik



Khopoli



Palghar



Ambarnath



Patalganga

# ....Building Imagination

## Our Projects Highlights



Singrauli, M.P.



Uran



Pune



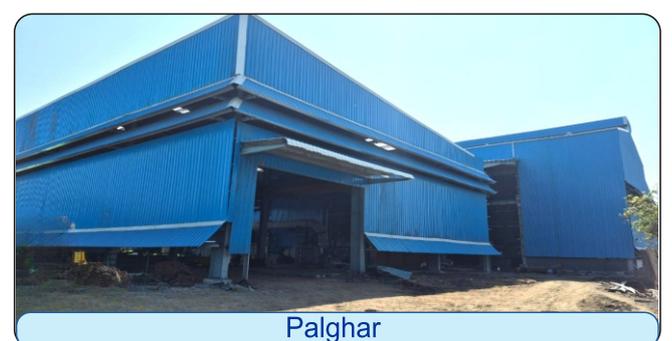
Kalyan



Palghar



Singrauli, M.P.



Palghar



# New Life Steel Structures

## Our Projects Highlights



Hinjewadi, Pune



JNPT



Satara



Nashik

# ....Building Imagination

## Our Projects Highlights



Akola



Poman, Vasai



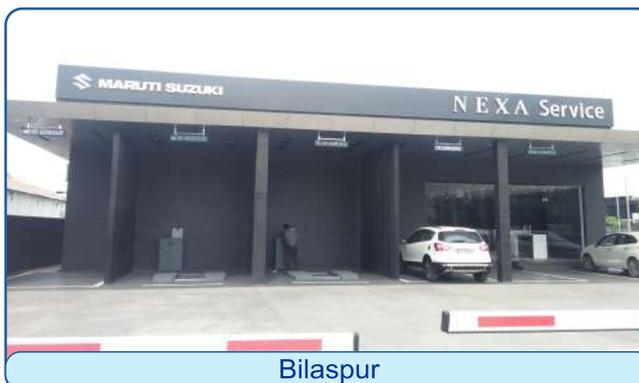
Pune



Nigeria



Mozambique



Bilaspur

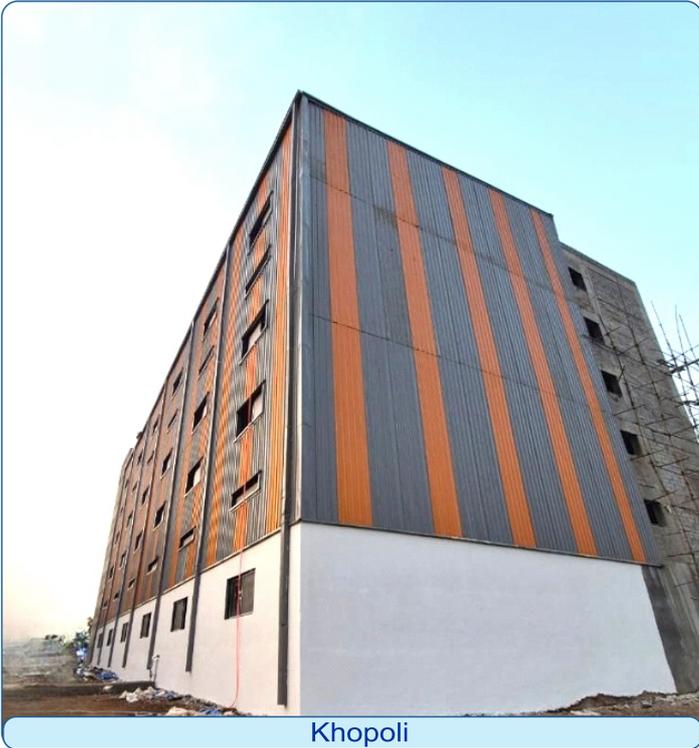


Odhisha



# New Life Steel Structures

## Our Projects Highlights



Khopoli



Ambarnath



Kutch Gujarat



Chembur



Angola



Kutch Gujarat



Manor, Palghar

# ....Building Imagination

## Our Projects Highlights



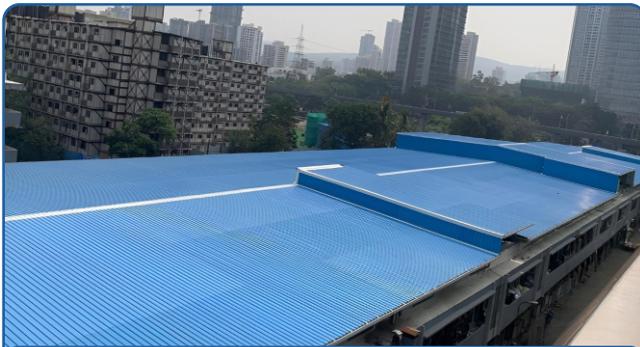
Jharsuguda, Odhisha



Poman, Vasai



Bhilad, Vapi



Goregaon



Naigaon



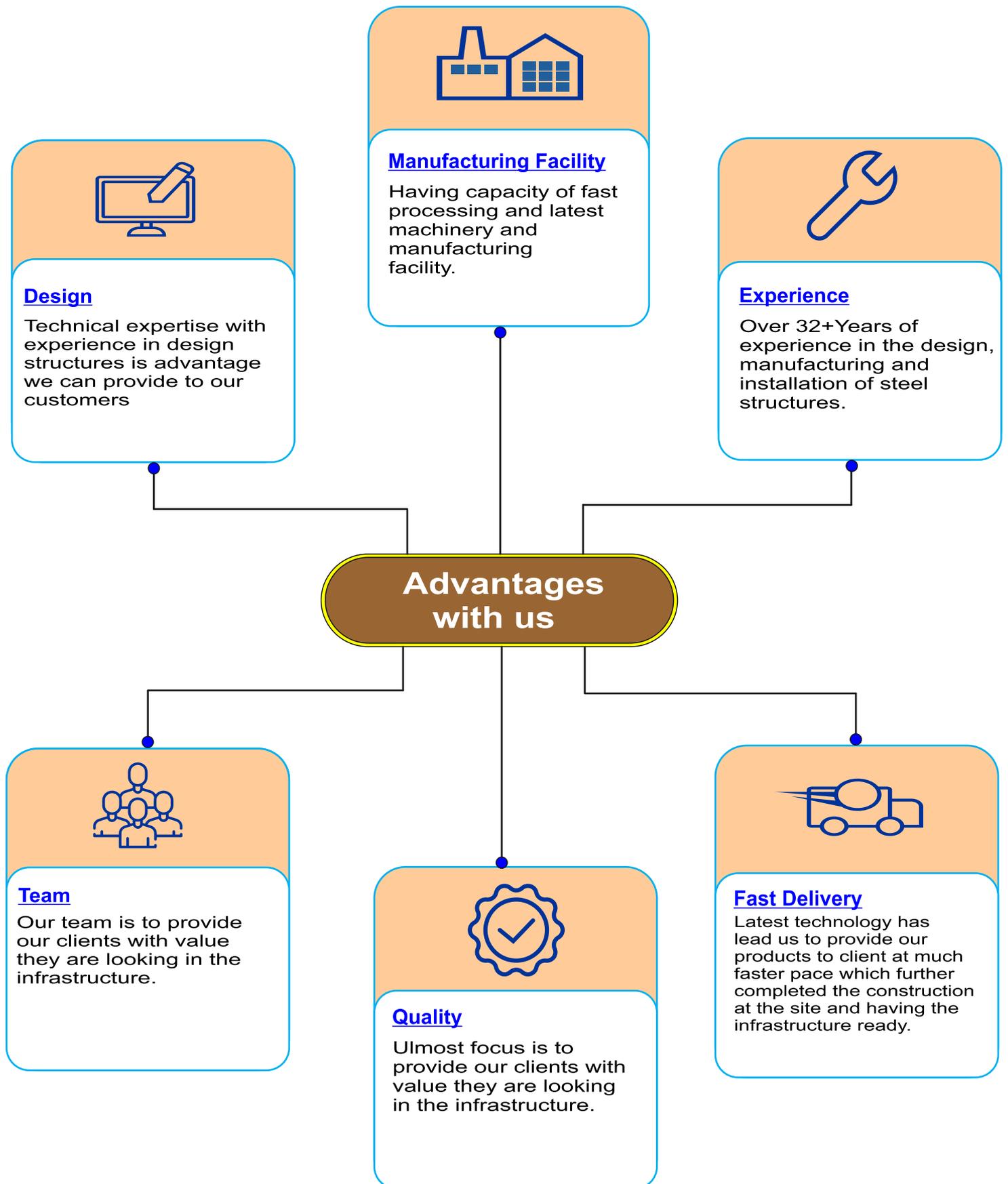
Essel World



Bhutan



# New Life Steel Structures



....Building Imagination





# New Life Steel Structures

ISO 9001:2015

- Mumbai : 1308 Eco Star, Vishweshwar Nagar, Off Aarey Road, Near Udipi Vihar,  
Goregaon (E), Mumbai-400063.  
Contact : 09324633330 / 8104500071 / 9986644083
- Website : [www.newlifesteel.com](http://www.newlifesteel.com)  
Sales Enquiry : [s.shrivastava@newlifesteel.com](mailto:s.shrivastava@newlifesteel.com) / [enquiry@newlifesteel.com](mailto:enquiry@newlifesteel.com)
- Delhi : B-6, Amba Apartment, Plot No. 5, Sector-10, Dwarka, New Delhi-75  
Sales Enquiry : [s.shrivastava@newlifesteel.com](mailto:s.shrivastava@newlifesteel.com) / [enquiry@newlifesteel.com](mailto:enquiry@newlifesteel.com)
- Palghar : Unit I : Diwan & Sons Ind. Est., Village Aliyali, Palghar (W) , 401404.  
Unit II : Plot No. 17 & 18, Viva Rajprabha Ind City, Palghar (E), 401404.



[www.newlifesteel.com](http://www.newlifesteel.com)

