



New Life Steel Structures

....Building Imagination



ISO 9001:2015

30+ YEARS OF SERVICE

....Building Imagination



Certification & Appreciation Letters



30+ Years of experience...

60000 sqft Production area of facility

20+ Countries exported...

1000000 + Square meter area constructed...



Advantages With Us



Manufacturing Facility

Having capacity of fast processing and latest machinery and manufacturing facility



Experience

Over 30 + years of experience in the design , manufacturing and installation of steel structures



Fast Delivery

Latest technology has lead us to provide our products to client at much faster pace which further completes the construction at site and having the infrastructure ready



Quality

Utmost focus is to provide our clients with value they are looking in the infrastructure .



Design

Technical expertise with experience in design of steel structures is advantage we can provide to our customers



Team

Our team is focused to provide customer satisfaction and continuous improvements in our product and processes



New Life Steel Structures

Our Products & Services

| | |
|-----------------------------------|----------------------------|
| 1. Pre-engineered Steel Buildings | 2. C & Z Purlin |
| 3. Roofing Sheet | 4. Flashing & Accessories |
| 5. Standing Seam Roofing Sheet | 6. Cold Storage Structures |
| 7. PEB / Industrial Shed | 8. Cable Gallery |
| 9. H Beams | 10. Portable Cabins |

Applications

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

Production Facility

This state of art plant is located at Palghar industrial state (district Thane), which is one of the epicenters of our manufacturing facilities. Fabrication of steel structure is supervised by experienced staff and certified welders. 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 **ISI specifications** ensuring maximum safety and economy by making optimum use of quality raw materials and sheets

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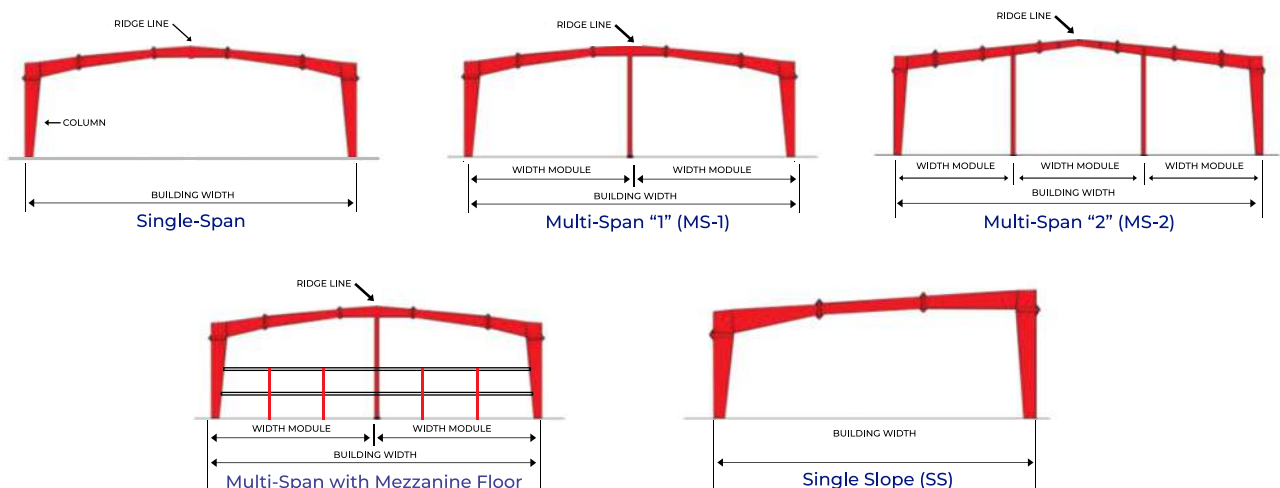
Components of Steel Structures

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

1. Primary Members

Primary structural framing shall include the transverse rigid frames, lean-to-rafters and columns, canopy rafters, interior columns (beam and column frames), bearing frame rafters corner columns and end wall wind columns. Structures are made of submerged welding process with High-Speed Machine and yield strength 250 - 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, flange 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 coating 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.



4. Connections

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.

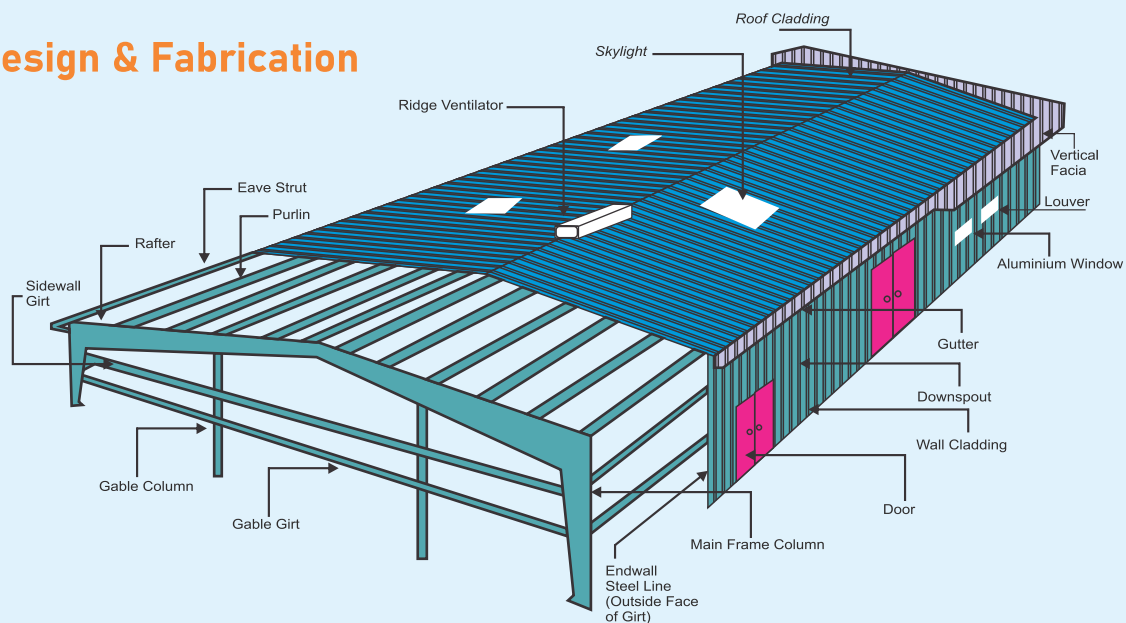
5. Roof Sheeting/Wall Sheeting

Roof and wall panels shall be of 26 gauges thick profiled galvalume / galvalume colour coated / GI colour 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.

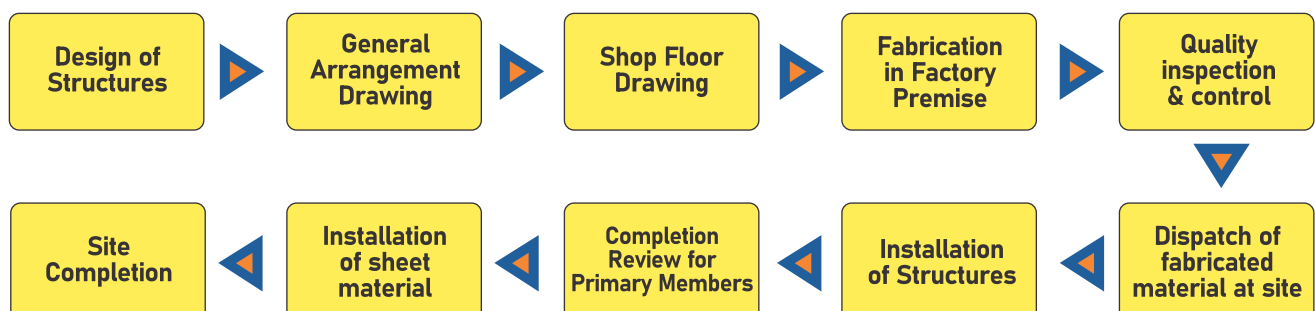
6. Sheeting Fasteners

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

Design & Fabrication



Process Flow – Steel Structures



7. Physical Specifications of Structural Members

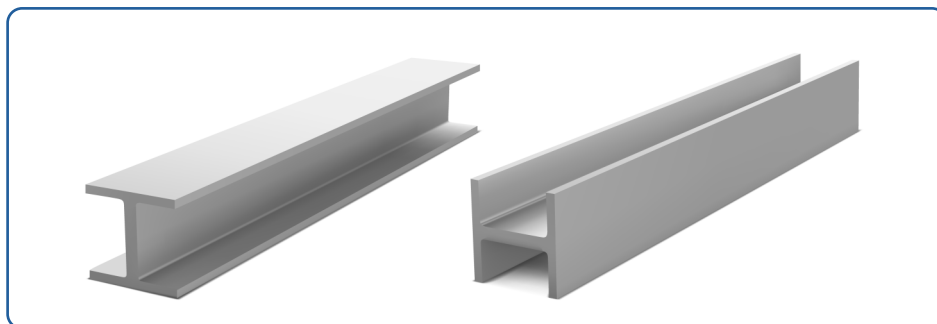
- A. Members fabricated from plates shall have flanges and webs joined on both side of the web by submerged welding process having a minimum yield strength 345 mpa.
- B. Members fabricated by cold forming process shall have a minimum yield strength of 345 mpa.
- C. Members fabricated from hot rolled 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.

H Beams

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

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 structure etc.



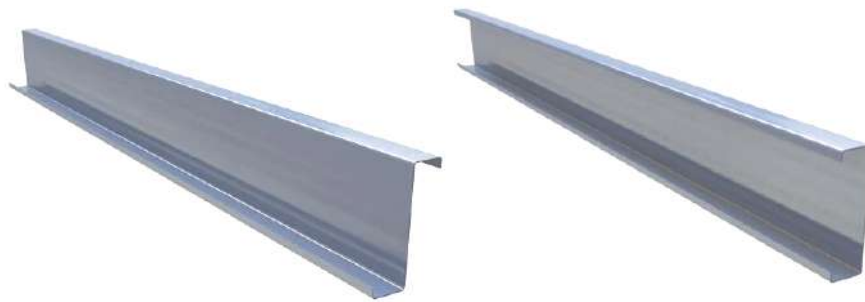


Purlin

C & Z purlins are revolutionary products which have been technically approved and accepted all over the world by architects and engineers. Its extraordinary shapes increase its strength and load taking capacity. Usage of Z purlins results in cost saving up to 50% in structural steel as compared to traditional rolled section (Like Angle / Channel / Beams) and hollow sections like (Round Pipes / SHS / RSH.) it is available in customized lengths, thus there is no need of any fabrication, cutting or welding at the site. Hence there is no material wastage or fabrication cost. It is also available in various thickness and sizes. The customers also have the option to buy high quality Galvanized Z purlins.

Advantages Of NLSS Purlins

- 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

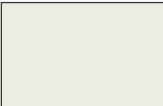

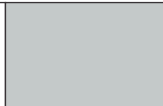





| | |
|-----------------------|--|
| Thickness | 1.5 mm to 3 mm |
| Length | Up to 12000 mm |
| Material | CR Steel as per IS:513/HR as per IS: 1079 |
| Yield Strength | 245 MPa to 345 MPa |
| Type | Galvanizd purlins made of cold rolled coil with 70 GSM/ 120 GSM / 175 GSM / 275 GSMcoating as per customer requirement |

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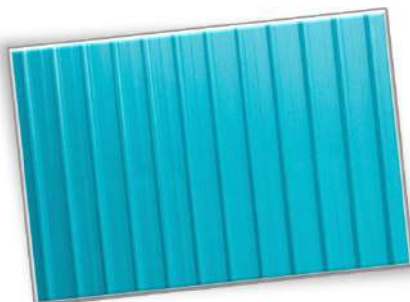
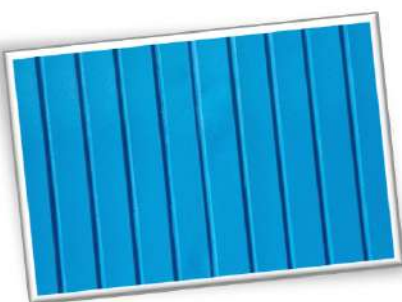
Roofing Sheet

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 |

| | | | | | | | |
|---|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |  |
| OFF WHITE RAL 9002 | PURE WHITE RAL 9010 | DARK GREY RAL 7035 | CAPRIC BLUE RAL 5019 | LIGHT BLUE RAL 5012 | RESEDA GREEN RAL 6011 | ORANGE BROWN RAL 8023 | SINGLE RED RAL 3001 |

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





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

01

Longevity

Since Fastener is not used no maintenance is required and life is longer for sheet

02

Versatile

Ideal for roof and reroofing. application ranges from commercial to residential building

03

Performance

Excels in high winds. Fire Resistance and Dependable

04

Wide Cover

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 I 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 types of sheets are widely used in airports, commercial buildings and offices to ensure its longevity. Currently industries have also started using this even though it is commercial costing 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.



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Prefab Structures Additional

1. Mezzanine Floor

The primary benefit of a mezzanine floor is to create a substantial amount of extra space without conducting any serious construction work on the building itself. A mezzanine floor is a middle floor that is installed between the ceiling and the ground floor to provide extra space for storage, assembly operations, or office space and makes use of unused vertical space. The decking or flooring of a mezzanine will vary by application but is generally composed of b-deck underlayment and wood product finished floor or a heavy-duty steel, aluminum or fiberglass.



2. Ridge Ventilator

ridge vent is usually made from aluminum or a mesh-type material. It draws hot, moist attic air out through the ridge vent and pulls fresh air into the attic through the soffit vents.



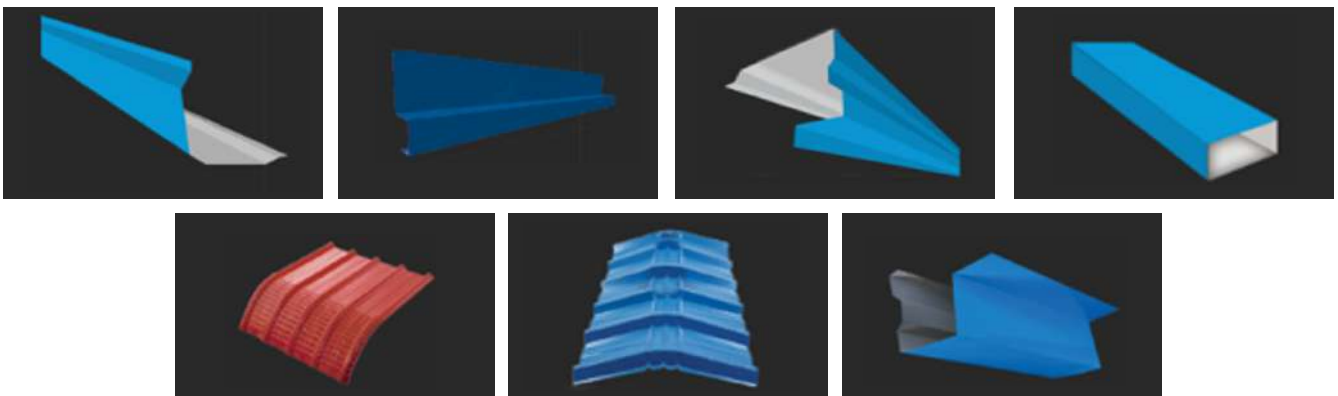
3. Louvers / Industrial Louvers

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.



4. Flashings

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

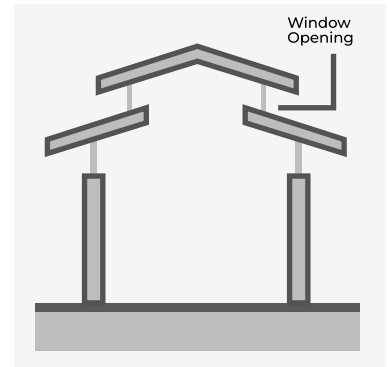




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5. Monitor Roof

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 and 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, cold formed 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.



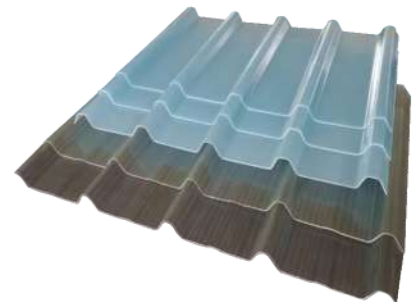
6. Fascia

A fascia system in a pre-engineered steel building enhances the appearance and transforms it from an ordinary-looking structure into an attractive building. The vertical panel makes the building look conceal the slope type of structure and gives different look.



7. Polycarbonate Sheet

Polycarbonate sheet 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 use heat to alter their form



8. Insulation

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



9. Turbo Ventilator

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



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Some of our Top Clients:

- Tata Group
 - Bharat Heavy Electricals Limited
 - ACC Limited
 - Central Warehousing Corporation
 - Hindalco Industries Ltd
 - Kokuyo camlin Ltd.
 - Oberoi Reality
 - DLF India
- And many more ...



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 |



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Our Projects Highlights



Ahmedabad



Kaman, Vasai



Poman, Vasai



Hazira, Surat

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Our Projects Highlights



Sangamner, Nashik



Ahmedabad



Butibori, Nagur



Poman, Vasai



Palghar



Pune



Pune



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Our Projects Highlights



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Our Projects Highlights



Jharsuguda, Odhisa



Poman, Vasai



Uran



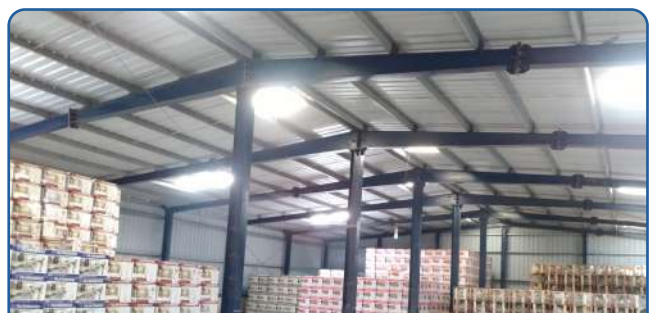
Singrauli, Madhya Pradesh



Sutrapada Gujarat



Essel World



Vadodara, Gujarat



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Our Projects Highlights



Pune



Odisha



Kutch



Bhutan



Hazira



Mozambique, Africa



Bilaspur , Chattishgarh



Odisha

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Our projects Highlights



Ambarnath



Odisha



Wada, Maharashtra



Wada, Maharashtra



Raipur



Palghar



Patalganga



Vasai



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- Mumbai : 1308 Eco Star, Vishweshwar Nagar, Off Aarey Road, Near Udipi Vihar,
Goregaon (E), Mumbai-400063.
Contact : 022-29270092/96, 09324633330 / 8104500071 / 9986644083
- Website : www.newlifesteel.com
Sales Enquiry : s.shrivastava@newlifesteel.com / enquiry@newlifesteel.com
- Delhi : B-6, Amba Apartment, Plot No. 5, Sector-10, Dwarka, New Delhi-75
Sales Enquiry : s.shrivastava@newlifesteel.com / enquiry@newlifesteel.com
- Ahemdabad : 304, Shivdeep Avenue, 2nd Floor, Opposite Mony Hotel, Ishanpur, Ahmedabad-382443.
Sales Enquiry : s.shrivastava@newlifesteel.com / enquiry@newlifesteel.com
Contact No. 9712942112
- 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

