



**JAGDAMBA**  
ENTERPRISES PVT. LTD.

**विश्वास युगौ युगको**







## MESSAGE FROM BOARD OF DIRECTORS

We are extremely proud and delighted to state that Jagdamba Enterprises Private Limited has carved a distinct niche for itself in the Nepali and the Indian Market with its high quality steel products namely Jagshakti TMT, PEB, W-Beam, Poles and Fabrication work. JEPL has been consistently growing at a healthy rate, thanks to its high level manufacturing modus operandi and rigid quality control procedures, robust distribution networks and above all, the unshaken trust it has earned from various quarters of customers over the period of time.

The Utility of Jagshakti TMT, Jagshakti Gold, PEB, Poles & Jagdamba Pipe covers a wide range of works and it hardly needs any elaboration as our brands have already established themselves as the best in their categories. Our pipe is available in all possible varieties including light, medium and heavy category, also JEPL has ventured into hollow section pipe RHS/SHS. Our Jagshakti TMT is available in variety of sizes with new addition of 22mm, 28mm and high quality 500D Jagshakti Gold for project work. The product categories undoubtedly offer excellent quality with their thoughtfully, efficiently executed and tested technical properties. JEPL has ventured into solution with in house facility of PEB building design & manufacturing.

It is therefore no wonder that JEPL brands have been meeting the specific requirements and aspiration of a wide gamut of customers in an extremely satisfying manner. Jagdamba Enterprises is committed to keep up the uniformity in the quality by exploring new avenues of technological innovation and customer satisfaction.

We must acknowledge the fact that the continuous support of our staff, distributors, dealers, suppliers and most importantly, customers has played a decisive role in establishing JEPL brands Jagshakti TMT, Jagshakti Gold, PEB, Poles and Jagdamba Pipe as undisputable leaders in the Nepali and Indian market. Similarly, we would also like to renew our commitment to tirelessly work towards the timely upgrade of all our product lines by embracing the best technology, trends and techniques.

Lastly, we, once again, pledge to make constant efforts towards constitutive reshaping of the landscape of the entire Nepali and Indian market through quality of our product and services and same expressed in our passion, precision and perfection in action.



## Vision

We are a winning team driven by the desire to be the best and the most efficient steel mill actively contributing to the nation's building & infrastructure.

Steel will remain our core business. We will aggressively expand to businesses that are in synergy with our product mix and also strengthen and add value to our core business development.

## Mission

### HI-TECH

H - High Quality

I - Inspiration

T - Technology

E - Excellence

C - Committment

H - Honesty





## QUALITY & SAFETY



At Jagdamba Enterprises Private Limited (JEPL) all our mills, commercial office, service center and warehouses are covered by one quality management system that is ISO 9001:2008 certified. We also hold significant certifications by highly reckoned associations such as Nepal Standards (NS) and the Bureau of Indian Standards (BIS). We are bound by the safety pledge & comply to all local and international safety norms to make our workplace, product and services safe.

### QUALITY COVERS THE ENTIRE SUPPLY CHAIN

Quality means satisfying customer's needs and expectations from product design to its manufacturing up to its delivery and related after sales services.

Quality encompasses all supply chain processes, including our providers and partners: from purchasing to product development. Steel making, rolling and drawing technology, order processing, production planning, manufacturing, product controls, testing and qualification, storage, shipping, post- sales assistance. All of these concepts are expressed in the latest QHSE policy launched by JEPL that identifies quality that brings in long-term, sustainable business.

JEPL is committed to keeping this quality policy updated, to implement and maintain its management system with continuously improving its performance.



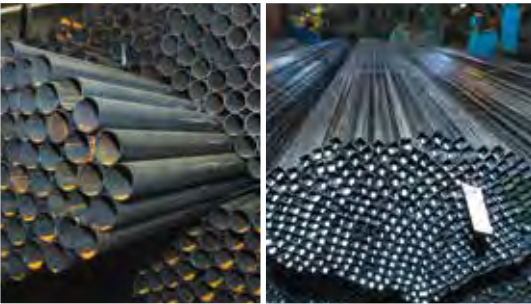
## PRODUCT MIX

### 1. JAGSHAKTI TMT & GOLD BARS



Thermo mechanically treated and self-quenched bars with grooved ribs, used for construction purposes. JAGSHAKTI TMT bars are manufactured under stringent quality supervision to insure that each TMT bars conforms to the highest standard and specifications. The product is tested at both Micro and Macro levels of production. Right from sourcing the quality raw material i.e. Prime Billets to the final product, ensuring that only the finest TMT bars are dispatched to the consumer. Jagshakti Gold is a new feather in our cap conforming to strengthen quality of 500 D specification with higher ductility (higher UTS/YS & percentage elongation).

### 2. JAGDAMBA MS PIPES & HOLLOW SECTION



The steel pipes obtained by electric resistance welded (ERW) Hot Rolled Strip, long hollow open ended circular RHS/SHS section and are used for pipe lines general engineering works, irrigation, fencing, scaffolding structural purpose. Pipes are available in varying sizes and thickness. We also manufacture CR Pipes in a variety of sizes to be used as Precision tube. The CR tubes offered by us have been appreciated for its features such as high performance, robust construction, durable and less abrasive.

### 3. CR PIPES



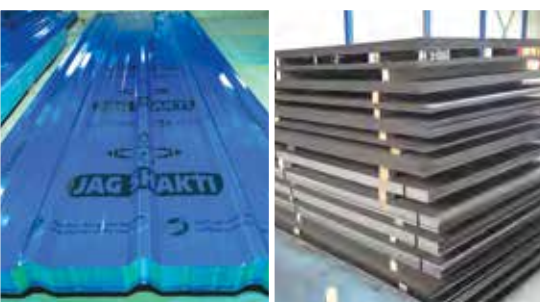
The CR tubes offered by us have been appreciated for its features such as high performance, robust construction, durable and less abrasive. JEPL has a wide range of CR Steel Tubes which are uniquely made from ultramodern Tube Mill and world class CRCA raw material. JEPL CR Pipes are supplied in various varieties and thicknesses for different applications for extremely sophisticated end product.

### 4. JAGDAMBA GI PIPES



Steel pipes are immersed in molten Zinc bath, to cover the steel with a layer of Zinc Metal. Zinc provide the steel a long term protection against corrosion & various environmental hazards. GI Pipes are used for Water, Gas & Steam Pipe Lines.

### 5. SHEETS & PLATES



We also produce Hot Rolled & Cold Rolled Cut to length sheet used for various structural purposes such as fabrication, storage tanks, bridges, penstock pipes, industrial construction and many more with a variety of thickness and specifications.

We have a wide range of CRCA material 0.3 to 1.4mm thickness from Prime suppliers of India. **We are the sole distributors for TATA Steelium CR Sheets and Coils for Nepal.** It is majorly used in steel furniture, panels, and auto industries and widely consumed in shutter putty profile manufacturing.

## 6. TUBULAR STEELS POLES & HIGH MAST POLES



The Tubular Poles are manufactured according to the demand of clients for Power Transmission Line on highways and in municipalities for lighting facility. We have high-tech and ultra-modern equipment with a skilled team which ensures high qualitative MS/GI Tubular Pole. These poles are used in stadium, factories, parking lots etc. JEPL has expertise to make High Mast Pole for transmission and distribution tower. We have capability to make Conical Pole and Mono Pole to use in lighting power.

## 7. W BEAM – CRASH BARRIERS



JEPL has pioneered into the manufacturing of Metal Crash Barrier / Highway Guard rail (W-Beam) in Nepal. We have state of the art manufacturing facility supported by well-equipped testing facilities for “W- Beam”. We provide both regular & customized ‘W Beam’ type Crash Barriers with hot-dip galvanizing (HDG) arrangement and stringent quality controls. Our present annual manufacturing capacity of Crash Barrier is 18,000MT

JEPL manufactures Crash Barrier assembly (W-Beam, U-Post and spacer) as per Govt. of Nepal, Ministry of Physical Infrastructure & Transport Department of Roads (Nepal Road Standard - NRS 2070) and Indian Standard as per MORT&H (Ministry of Road, Transport & Highways)

Our Integrated Product Chain begins with the procurement of Mild Steel Plates from Tata Steel / SAIL / JSW, conforming to IS 5986 / IS 10748 / IS 2062 or equivalent International Standards.

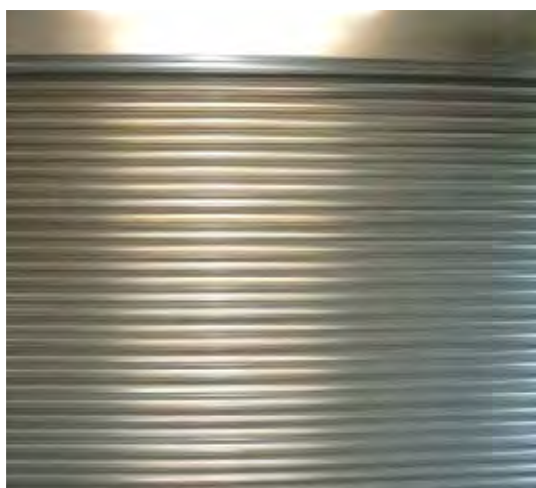
## 8. PRE-ENGINEERED STEEL BUILDINGS (PEB)



Pre-Engineered Building (PEB) is a metal enclosure building that includes a structural frame and standard roof and wall support which is factory made and is erected at the site. It is a new manufacturing concept replacing traditional manufacturing and providing custom-made solutions for both commercial and Industrial operations. PEBs are protected from sound and heat resistance. PEB weigh lighter and can effectively resist earthquake and wind pressure.

PEB assembly components are done at the factory and the building components are brought to the site in knock-down condition. The PEB frame construction comprising of primary and secondary framing.

## 9. JAGDAMBA SHUTTER PROFILE & ACCESSORIES



Jagdamba Cold Rolled Shutter Profiles are ideal for shops, warehouses and other domestic & commercial premises. Jagdamba Cold rolled shutter Profiles are made of high grade CRCA materials. Because of high quality of CRCA materials and applications of Rust Preventive Oil make the shutter profiles malfunction free and corrosion free.

Absolute Flatness of CR ensures Low Putty Consumption, Less time for fabrication, less number of welds etc. and Superior Surface ensures low primer consumption, good paint adherence and ease of welding.

| Thickness | Width  | Weight Per Metre |
|-----------|--------|------------------|
| 0.85 mm   | 127 mm | 0.850 kg         |
| 0.90 mm   | 127 mm | 0.900 kg         |
| 1.00 mm   | 127 mm | 1.000kg          |
| 1.10 mm   | 127 mm | 1.100 kg         |





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## JAGSHAKTI TMT BARS & JAGSHAKTI GOLD BARS

### Features of Jagshakti TMT

- Higher yield strength, Ultimate tensile strength and higher percentage elongation when compared to other TMT bars.
- Easy bend ability, weld ability and excellent ductility ensure economy and safety of use.
- Inbuilt ability to resist loss of strength at higher temperature.
- Require less energy for bending and rebending along with superior reverse bending properties.
- Can be butt welded or lap welded.
- Use of JAGSHAKTI TMT grade results in saving more than 15% in steel consumption when compared to cold twisted bars.
- Higher corrosion resistance and seismic resistance compared to other TMT bars.
- Ideally suited for any type of concrete structure.

### Produced from fully killed steel (Prime Steel Billets)

| Size (mm) | Standard Weight (Kg/m) | Min. Weight (Kg/m) | Max. Weight (Kg/m) | Tolerance |            | Size (mm) | Standard Weight (Kg/m) | Min. Weight (Kg/m) | Max. Weight (Kg/m) | Tolerance |            |
|-----------|------------------------|--------------------|--------------------|-----------|------------|-----------|------------------------|--------------------|--------------------|-----------|------------|
|           |                        |                    |                    | Batch     | Individual |           |                        |                    |                    | Batch     | Individual |
| 8         | 0.395                  | 0.367              | 0.423              | ± 7%      | -8%        | 22        | 2.980                  | 2.891              | 3.069              | ± 3%      | -4%        |
| 10        | 0.617                  | 0.574              | 0.660              | ± 7%      | -8%        | 25        | 3.850                  | 3.735              | 3.966              | ± 3%      | -4%        |
| 12        | 0.888                  | 0.844              | 0.932              | ± 5%      | -6%        | 28        | 4.830                  | 4.685              | 4.975              | ± 3%      | -4%        |
| 16        | 1.580                  | 1.501              | 1.659              | ± 5%      | -6%        | 32        | 6.310                  | 6.121              | 6.499              | ± 3%      | -4%        |
| 18        | 2.000                  | 1.940              | 2.060              | ± 3%      | -4%        | 36        | 7.990                  | 7.750              | 8.230              | ± 3%      | -4%        |
| 20        | 2.470                  | 2.396              | 2.544              | ± 3%      | -4%        | 40        | 9.860                  | 9.564              | 10.156             | ± 3%      | -4%        |

| Length  | Standard       |
|---|----------------|
| Standard 12 meters length supplied but can also be supplied in 9-12 meters as per mutual agreement. | NS: 191 - 2046 |

### Comparison of Fe 500 with International Standards

| Standard                 | Grade    | UTS N/mm <sup>2</sup> | YS N/mm <sup>2</sup> | % Elongation |
|--------------------------|----------|-----------------------|----------------------|--------------|
| ASTMA 615                | 75       | 690                   | 520                  | 6-7          |
| JISG 3112                | SD 490   | 620                   | 490-625              | 12-13        |
| BS 4449                  | 500      | 525-675               | 500                  | 12           |
| DIN 488                  | BST-500  | 550                   | -                    | 8            |
| New Zealand              | 500 N    | 650                   | -                    | 5            |
| Australia                | 500 N    | -                     | 500                  | -            |
| NS 191                   | Fe 500   | 545                   | 500                  | 12           |
| NS 191                   | Fe 500 D | 565                   | 500                  | 16           |
| JAG SHAKTI TMT (Typical) | Fe 500   | 648                   | 500                  | 16           |
| JAG SHAKTI Gold          | Fe 500 D | 600-660               | 500-570              | 18-23        |

## Advantages of JAGSHAKTI TMT (QST) Rebars

### • Combination of high strength and high ductility

JAGSHAKTI TMT bars have rare combination of high strength with excellence of ductility. The tensile to yield strength ratio is always greater than 1.12. In normal bars, the increase in the yield strength of the bars is accompanied by the loss of percent elongation. But in the case of JAGSHAKTI TMT bars this loss is negligible and the percent elongation values are much higher than normally specified in various International Standards.

**"This excellent feature of Jagshakti TMT make it the perfect choice in earthquake prone areas as higher ductility with high strength ensures that any structure made with Jagshakti TMT will stand strong in the most rigorous and high seismic zone areas."**

### • Resistance to ageing

The test carried out on the Jagshakti TMT bars, indicate that no significant change of strength and function of time occurs which could affect the usefulness of these bars.

### • Superior corrosion resistance

The absence of Eutectoid Carbides and pearlite colonies in JAGSHAKTI TMT, absence of stresses because of tempering, presence of martenstic layer at the outside surface and formation of adherent scale film due to water quenching during rolling are the reasons for better corrosion resistance properties of these reinforcement bars.

### • Excellent bendability and workability

The tough outer skin and the ductile core of the JAGSHAKTI TMT bars result in excellent bendability. This coupled with a high resistance to low temperature brittle fracture, allows these bars to bent, without fear of failure around small diameter mandrels.

In the reverse bend test, these bars also show good result. In the construction site, situation arises where bars bent are left

for a good period in the bent condition and then reverse bent. During period between the first bend and the reverse bend the bars may strain age. The loss of ductility due to strain ageing and due to strain imposed from the first bend may cause failure during rebinding operations, if the bars are not sufficiently ductile. Test results have shown that JAGSHAKTI TMT bars have withstood successfully the bending, straightening and rebinding tests after ageing. The bend tests carried out at our lab have shown that these bars could be bent even around the smallest dia mandrel without causing any cracking.

### • Can be butt welded or lap welded

The low carbon content and low carbon equivalent of JAGSHAKTI TMT reinforcement bars ensure excellent weld ability even while using any of the welding processes such as arc welding, flash butt welding, gas shielded semi automatic welding, gas pressure welding and resistance welding etc.

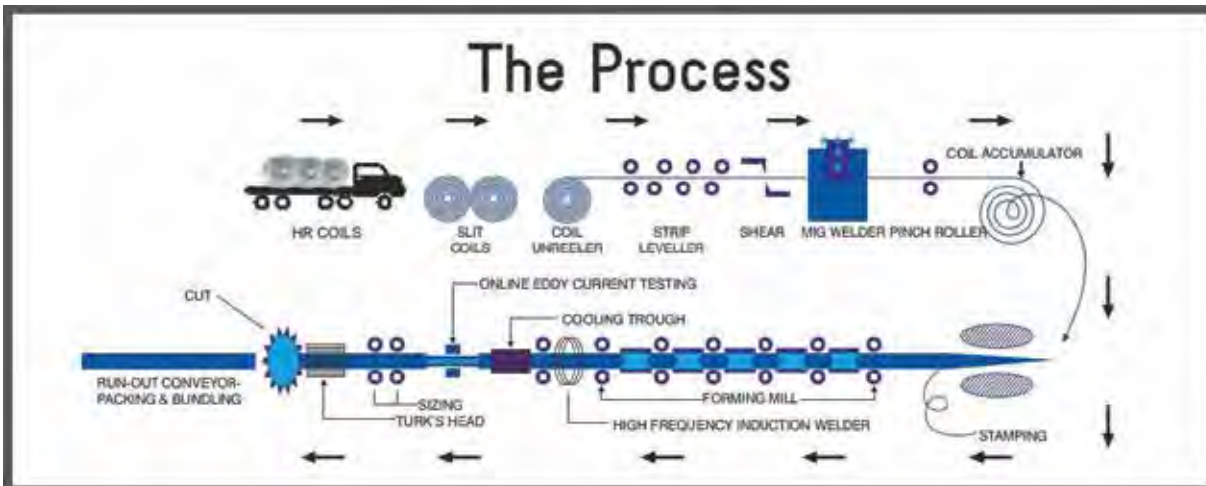
Welding of these bars does not require pre-heating or post heating. JAGSHAKTI TMT bars indicate good welding properties in case of butt welds, cross welds and lap welds. Tensile tests carried out on these reinforcing bars after butt welds, cross welds and lap welds have shown no failure at the welds joined. Normal electrodes with matching strength can be used for welding.

In the welding of steels, the tendency to produce hard and brittle heat affected zones is maximum when the cooling rates of the weld and the carbon content are high. In addition, in those welding process where molten metal filler is used, such as in manual metal arc welding, hydrogen pick up may occur leading to hydrogen induced cracking in the heat affected zone. In case of welding reinforcement bars hard brittle of low ductility and heat affected zone can occur in susceptible steels due to fast cooling rates. JAGSHAKTI TMT bars have got very low susceptibility to both heat affected zone brittleness and hydrogen induced cracking due to their low carbon content. These bars when welded show no loss of strength at the load carrying joints.





## JAGDAMBA MS PIPE & RHS/SHS TUBES



### Produced by ERW (Electric Resistance Welding)

We are instrumental in manufacturing and supplying MS Black Pipes which find usage in Construction, Water, Gas, Steam and Air line.

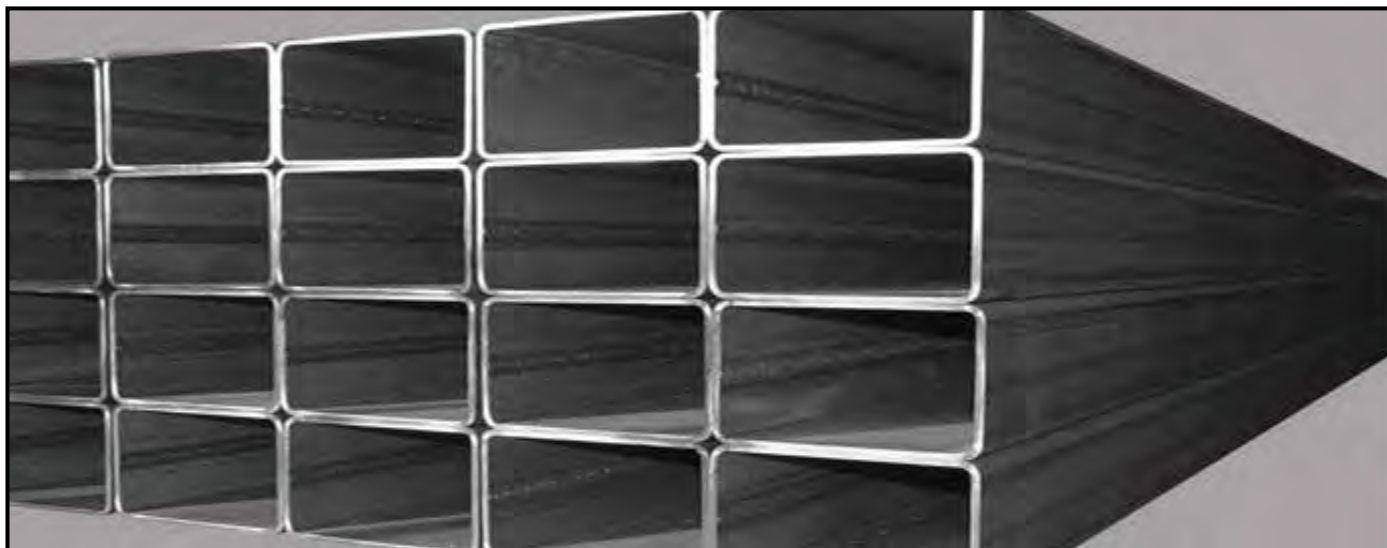
MS Pipes are manufactured using mild steel strips of Low Carbon Steel Coils. The strips are passed through a series of fin rolls to give them a circular shape. The slit ends of the strips are then welded together by continuously passing high frequency electric current across the edges. The welded steel pipes are then passed through sizing sections where any dimensional deviations are corrected. The pipes are then cut into desired lengths by automatic cutting machines. The tubes are then pressure

tested for any leaks randomly. The galvanization and varnishing of pipes are done as per specific requirements.

### Special Features:

- Precisely manufactured in compliance with industrial standards using supreme quality metals, these are available in diverse specifications.
- We duly check MS Black Pipes on different quality norms before supplying to clients.
- As of now we have the highest number of tube mills with extra modern technology which produce pipes in different standards of Nepal Standards and Bureau of Indian Standards.
- ISI Licence Holder in three grades of tubes.

## JAGDAMBA SHS & RHS PIPE



Another variety of MS Black Pipe is Square Hollow Section (SHS) pipes and Rectangular Hollow Section (RHS) pipes. By virtue of their shapes hollow sections have high radius of gyration and other properties resulting in savings in material, transportation and fabrication cost. Less Surface Area compared to equivalent conventional sections also results in savings in Paint and Labour Cost. Also less exposed Surface Area combined with superior quality raw material results in less corrosion. Moreover smooth uniform profiles of sections minimizes dust and moisture accumulation.

Nowadays, these pipe are being used abundantly in steel furniture and predominantly in huge structural like Airports, Malls etc. SHS and RHS have also become very popular in many forms of construction and other structural & mechanical applications. This has been greatly assisted by the section's inherent flat surfaces making it more economical for joining and other fabrication processes. In this instance, and unlike Round Pipes, the sections only need to be straight-cut (when joining to other flat surfaces) instead of profile cut (e.g. when preparing a Circular end or when joining to curved surfaces). Minimal edge preparation is required for joining and welding RHS. SHS and RHS can be used for architectural aesthetics, possessing clean lines, it is functional and interacts less with external environmental effects.

The Product list is as follows: -

|                 |       |       |       |       |       |        |        |        |         |         |         |         |         |
|-----------------|-------|-------|-------|-------|-------|--------|--------|--------|---------|---------|---------|---------|---------|
| <b>RHS (mm)</b> | 25x38 | 25x50 | 40x60 | 40x80 | 48x96 | 61x122 | 75x150 | 82x145 | 100x200 | 100x200 |         |         |         |
| <b>SHS (mm)</b> | 19x19 | 20x20 | 25x25 | 32x32 | 38x38 | 48x48  | 50x50  | 60x60  | 72x72   | 100x100 | 132x132 | 150x150 | 200x200 |

The above pipes are manufactured in different thicknesses ranging from 0.40 mm to 6.00 mm as per the customers requirement.

## JAGDAMBA CR PIPES



JEPL has a wide range of CR Steel Tubes which uniquely made from ultramodern Tube Mill and world class raw material-'Tata Steelium'. JEPL CR Pipes are supplied in various varieties and thicknesses for different applications for extremely sophisticated end product.

JEPL CR Pipes offers many advantages such as close tolerances on diameter and thickness, exceptional smooth finish in the both side of the tubes.

### General Applications:

- Industrial Equipments
- General Engineering Purpose
- Electrical conduits & components
- Frames of Hoarding Board
- Furniture
- Fan Rods
- Bus Body Building
- Automobile Industry
- Machinery Parts
- Disk Antenna
- Leg Guards
- Bicycle Manufacturing



# JAGDAMBA GI PIPES



| Thickness |                                       |                      |
|-----------|---------------------------------------|----------------------|
| 1.        | Light Tubes                           | + Not Limited<br>-8% |
| 2.        | Medium and Heavy Tubes                | + Not Limited<br>10% |
| Weight    |                                       |                      |
| 1.        | Single Tube (Light Series)            | +10%<br>-8%          |
| 2.        | Single Tube (Medium And Heavy Series) | +10%                 |
| 3.        | For Quantity per load of 10 tonnes    | +7.5%                |
|           | Minimum (light series)                | -5%                  |
| 4.        | For Quantity per load of 10 tonnes    | ± 7.50%              |
|           | Minimum (light series)                |                      |
| Length    |                                       |                      |
| 1.        | Unless otherwise specified            | 4 to 7 meters        |

The GI Pipes are generally used for distribution of treated or raw water in rural and urban areas. These pipes are cheaper and easy to handle and installation. These pipes are produced by hot dip galvanizing process. Backed with great experience, we are reckoned as one of the most reputed manufacturers and exporters of GI pipes. The skilled team and advanced galvanizing process ensure the qualitative Jagdamba GI Pipes.

## Special Features:

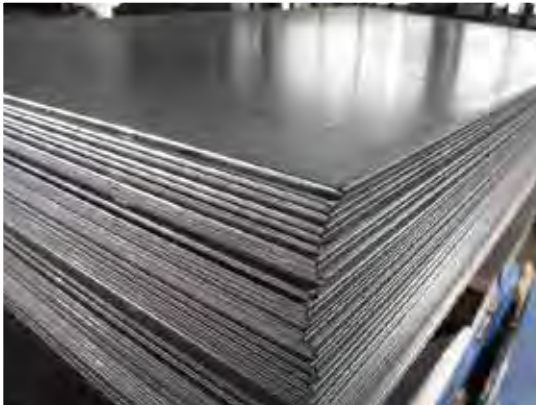
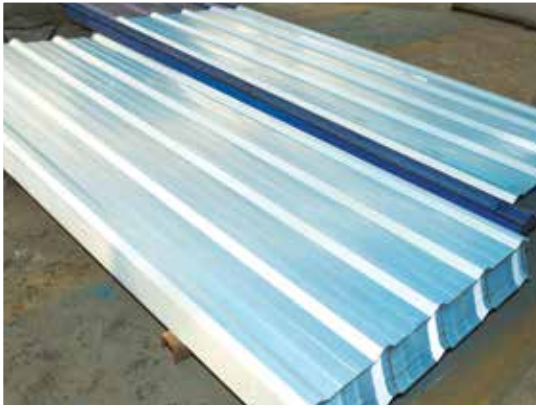
- These galvanized steel pipes are manufactured by employing high quality Hot Rolled Coil and other materials like Zinc, procured from certified vendors of the industry.
- Our offered range of steel pipes is manufactured as per the needs and requirements of the clients.
- These GI Pipes are available in various sizes ranging from ½ inches to 6 inches nominal all grades Light, Medium and Heavy.
- We produce GI Pipe with ultra modern galvanizing process which increase the standard quality of GI Pipes.
- We manufacture GI Pipe in NS 199 standards as well as IS 1239 / IS 3601 / IS 1161 standards.
- We have been the largest exporter for GI Pipes for last 7 years from Nepal.

## Weight Chart of Jagdamba MS Pipes

| Conforming to NS: 199 & IS:1239 (part-1)-2004, equivalent to BS-1387/1985 |              |       |                  |        |                |     |                               |             |                    |             |                        |            |                |
|---|--------------|-------|------------------|--------|----------------|-----|-------------------------------|-------------|--------------------|-------------|------------------------|------------|----------------|
|   | Nominal Bore |       | Outside Diameter |        | Wall Thickness |     | Nominal weight of Steel Tubes |             |                    |             | No. of Pipes (approx.) | Socketed   |                |
|   | mm           | inch  | min. mm          | max.mm | mm             | SWG | Plain end                     |             | Screwed & Socketed |             |                        | min. OD mm | Min. length mm |
|   |              |       |                  |        |                |     | Kg/ mtrs                      | mtrs/ tonne | Kg/ mtrs           | mtrs/ tonne |                        |            |                |
| LIGHT   | 15           | 1/2   | 21.0             | 21.4   | 2.00           | 14  | 0.947                         | 1056        | 0.956              | 1046        | 165                    | 27.0       | 37.0           |
|   | 20           | 3/4   | 26.4             | 26.9   | 2.30           | 13  | 1.380                         | 725         | 1.390              | 719         | 112                    | 32.5       | 39.0           |
|   | 25           | 1     | 33.2             | 33.8   | 2.60           | 12  | 1.980                         | 505         | 2.000              | 500         | 80                     | 39.5       | 46.0           |
|   | 32           | 1 1/4 | 41.9             | 42.5   | 2.60           | 12  | 2.540                         | 394         | 2.570              | 389         | 60                     | 49.0       | 51.0           |
|   | 40           | 1 1/2 | 47.8             | 48.4   | 2.90           | 11  | 3.230                         | 310         | 3.270              | 306         | 48                     | 56.0       | 51.0           |
|   | 50           | 2     | 59.6             | 60.2   | 2.90           | 11  | 4.080                         | 245         | 4.150              | 241         | 39                     | 68.0       | 60.0           |
|   | 65           | 2 1/2 | 75.2             | 76.0   | 3.20           | 10  | 5.710                         | 175         | 5.830              | 172         | 27                     | 84.0       | 69.0           |
|   | 80           | 3     | 87.9             | 88.7   | 3.20           | 10  | 6.720                         | 149         | 6.890              | 145         | 23                     | 98.0       | 75.0           |
|   | 100          | 4     | 113.0            | 113.9  | 3.60           | 9   | 9.750                         | 103         | 10.000             | 100         | 16                     | 124.0      | 87.0           |
| MEDIUM  | 15           | 1/2   | 21.0             | 21.8   | 2.60           | 12  | 1.210                         | 826         | 1.220              | 820         | 132                    | 27.0       | 37.0           |
|   | 20           | 3/4   | 26.5             | 27.3   | 2.60           | 12  | 1.560                         | 641         | 1.570              | 637         | 98                     | 32.5       | 39.0           |
|   | 25           | 1     | 33.3             | 34.2   | 3.20           | 10  | 2.410                         | 415         | 2.430              | 412         | 65                     | 39.5       | 46.0           |
|   | 32           | 1 1/4 | 42.0             | 42.9   | 3.20           | 10  | 3.100                         | 323         | 3.130              | 319         | 51                     | 49.0       | 51.0           |
|   | 40           | 1 1/2 | 47.9             | 48.8   | 3.20           | 10  | 3.560                         | 281         | 3.600              | 278         | 45                     | 56.0       | 51.0           |
|   | 50           | 2     | 59.7             | 60.8   | 3.60           | 9   | 5.030                         | 199         | 5.100              | 196         | 30                     | 68.0       | 60.0           |
|   | 65           | 2 1/2 | 75.3             | 76.6   | 3.60           | 9   | 6.420                         | 156         | 6.540              | 153         | 24                     | 84.0       | 69.0           |
|   | 80           | 3     | 88.0             | 89.5   | 4.00           | 8   | 8.360                         | 120         | 8.530              | 117         | 19                     | 98.0       | 75.0           |
|   | 100          | 4     | 113.1            | 115.0  | 4.50           | 7   | 12.200                        | 82          | 12.500             | 80          | 13                     | 124.0      | 87.0           |
|   | 125          | 5     | 138.5            | 140.8  | 4.80           | 6   | 15.900                        | 63          | 16.400             | 61          | 10                     | 151.0      | 96.0           |
| HEAVY   | 150          | 6     | 163.9            | 166.5  | 4.80           | 6   | 18.900                        | 53          | 19.500             | 51          | 8                      | 178.0      | 96.0           |
|   | 15           | 1/2   | 21.0             | 21.8   | 3.20           | 10  | 1.440                         | 694         | 1.450              | 690         | 110                    | 27.0       | 37.0           |
|   | 20           | 3/4   | 26.5             | 27.3   | 3.20           | 10  | 1.870                         | 535         | 1.880              | 532         | 84                     | 32.5       | 39.0           |
|   | 25           | 1     | 33.3             | 34.2   | 4.00           | 8   | 2.930                         | 341         | 2.950              | 339         | 55                     | 39.5       | 46.0           |
|   | 32           | 1 1/4 | 42.0             | 42.9   | 4.00           | 8   | 3.790                         | 264         | 3.820              | 262         | 42                     | 49.0       | 51.0           |
|   | 40           | 1 1/2 | 47.9             | 48.8   | 4.00           | 8   | 4.370                         | 229         | 4.410              | 227         | 36                     | 56.0       | 51.0           |
|   | 50           | 2     | 59.7             | 60.8   | 4.50           | 7   | 6.190                         | 162         | 6.260              | 160         | 27                     | 68.0       | 60.0           |
|   | 65           | 2 1/2 | 75.3             | 76.6   | 4.50           | 7   | 7.930                         | 126         | 8.050              | 124         | 20                     | 84.0       | 69.0           |
|   | 80           | 3     | 88.0             | 89.5   | 4.80           | 6   | 9.900                         | 101         | 10.100             | 99          | 16                     | 98.0       | 75.0           |
|   | 100          | 4     | 113.1            | 115.0  | 5.40           | 5   | 14.500                        | 69          | 14.800             | 68          | 11                     | 124.0      | 87.0           |
|   | 125          | 5     | 138.5            | 140.8  | 5.40           | 5   | 17.900                        | 56          | 18.400             | 54          | 9                      | 151.0      | 96.0           |
|   | 150          | 6     | 163.9            | 166.5  | 5.40           | 5   | 21.300                        | 47          | 21.900             | 46          | 7                      | 178.0      | 96.0           |

\*Note: Size thickness 4mm to 6mm

## SHEETS & PLATES



We deal in Hot Rolled & Cold Rolled Sheets and Hot Rolled Plates with various specification and dimension. We are the largest cut-to-length manufacturer in Nepal. The highly modern CTL machine ensure qualitative products with minimum or negligible tolerance. We supply Cut to Length Sheets from Hot Rolled Coils & cold rolled coils imported from Top Indian Manufactures like SAIL, TATA, JSW etc.

The sheets have thicknesses ranging from 1.20 mm to 12.00 mm. The CR sheets have thickness range from 0.3 to 1.6mm. The CR sheets application is for making furniture, appliances, panel & general consining segment. The grade confirm to CRCA-CO grade suitable for all bending application. Typically the width of these sheets are 1220 mm but we can also supply as per the customers requirement. The end use of these sheets are Agricultural Components, General or Project Fabrication and structural components.

The grade of materials is normally IS 2062. However, any other grade can also be provided as per specific requirement.

For HR Plates we import and resell plates ranging from thickness 16 mm to 60 mm. The grade and length can be as per customers requirment. These plates are imported from Top Indian manufactures like JSPL and SAIL.

### HR Sheets and Plates Dimensional Specification

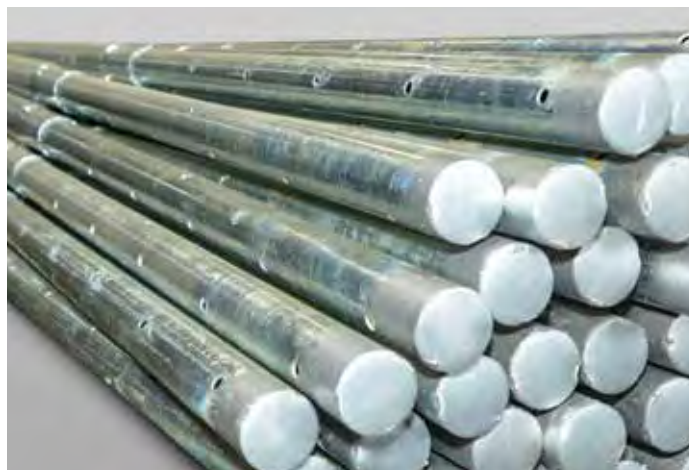
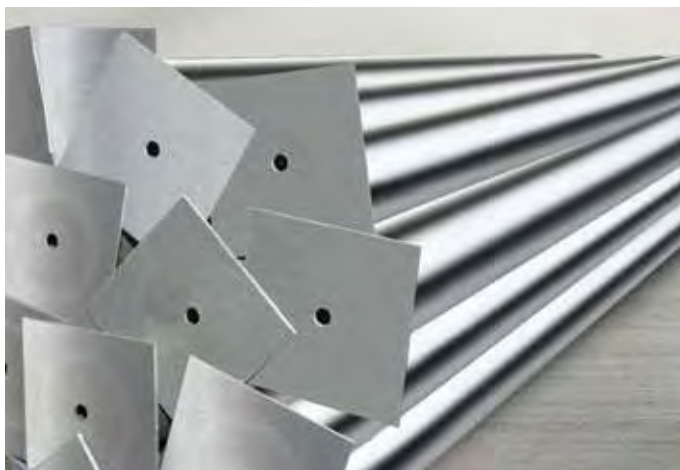
| Size of HL Sheet | Wt. of HR Sheet | Size of HL Sheet | Wt. of HR Sheet |
|------------------|-----------------|------------------|-----------------|
| 1.50 X 4' X 8'   | 35.1            | 6.00 X 4' X 8'   | 140.30          |
| 1.60 X 4' X 8'   | 37.4            | 6.50 X 4' X 8'   | 152.00          |
| 1.80 X 4' X 8'   | 42.1            | 8.00 X 4' X 8'   | 187.10          |
| 2.00 X 4' X 8'   | 46.8            | 10.0 X 4' X 8'   | 233.90          |
| 2.20 X 4' X 8'   | 51.5            | 12.00 X 4' X 8'  | 280.8           |
| 2.50 X 4' X 8'   | 58.5            | 16.00 X 4' X 8'  | 374.3           |
| 2.80 X 4' X 8'   | 65.5            | 20.00 X 4' X 8'  | 467.9           |
| 3.00 X 4' X 8'   | 70.2            | 25.00 X 4' X 8'  | 584.9           |
| 3.20 X 4' X 8'   | 74.8            | 30.00 X 4' X 8'  | 701.9           |
| 3.50 X 4' X 8'   | 81.9            | 32.00 X 4' X 8'  | 748.7           |
| 3.80 X 4' X 8'   | 88.9            | 36.00 X 4' X 8'  | 842.3           |
| 4.00 X 4' X 8'   | 93.5            | 40.00 X 4' X 8'  | 935.9           |
| 4.50 X 4' X 8'   | 105.20          | 50.00 X 4' X 8'  | 1170.0          |
| 5.00 X 4' X 8'   | 117.0           | 60.00 X 4' X 8'  | 1404.0          |
| 5.50 X 4' X 8'   | 128.60          |                  |                 |

### CR Sheets Dimensional Specification

| Thickness (mm) | Width (mm) | Length (mm) | Weight Per Sq. Mtr (kg) |
|----------------|------------|-------------|-------------------------|
| 0.35           | 1250       | 2500        | 2.7545                  |
| 0.40           | 1250       | 2500        | 3.1480                  |
| 0.42           | 1250       | 2500        | 3.3054                  |
| 0.44           | 1250       | 2500        | 3.4628                  |
| 0.50           | 1250       | 2500        | 3.9350                  |
| 0.53           | 1250       | 2500        | 4.1711                  |
| 0.57           | 1250       | 2500        | 4.4859                  |
| 0.67           | 1250       | 2500        | 5.2729                  |
| 0.85           | 1250       | 2438        | 6.6895                  |
| 0.90           | 1250       | 2438        | 7.0830                  |
| 1.05           | 1250       | 2438        | 8.2635                  |
| 1.30           | 1250       | 2438        | 10.2310                 |
| 1.40           | 1250       | 2438        | 11.0180                 |



# TUBULAR STEEL POLES



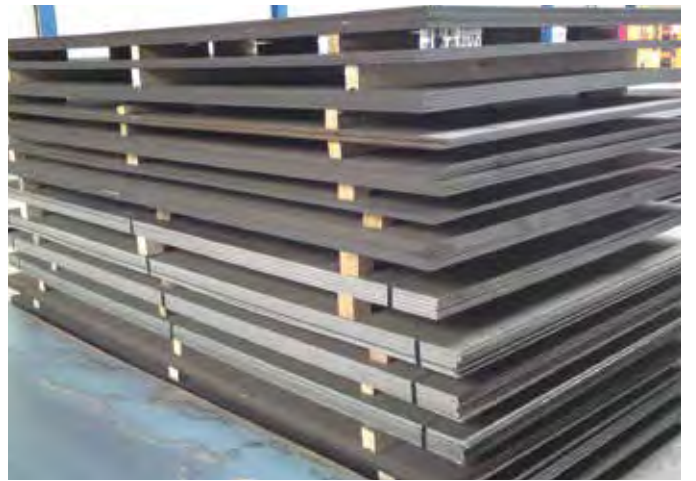
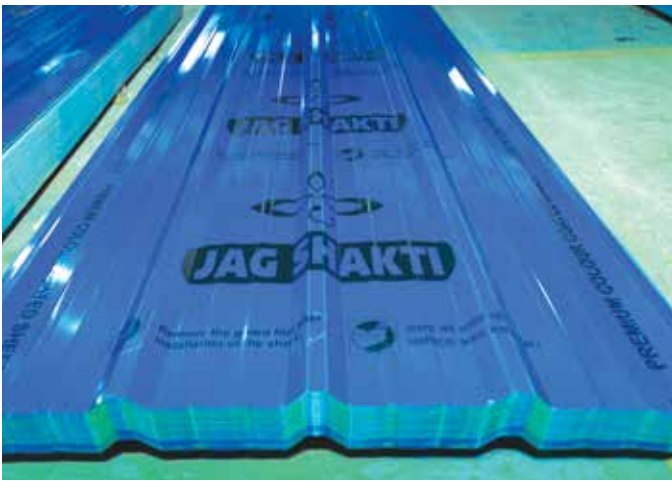
We manufacture the entire range of steel tubular poles. The raw materials for these poles are of specific quality procured from reputed manufactures like SAIL, TATA & JSW of India. Our range is in strict compliance to the industry set standards.

We are instrumental in offering premium quality Steel Tubular Poles. Offered electrical poles are manufactured to meet the demands of clients in factories, stadiums, parking lots, municipalities, corporations and other related areas. The poles are acknowledged for outstanding features like easy installation, high strength, optimum finish, durability and corrosion and shock resistance. Clients can avail the Steel Tubular Poles from us within promised time frame at highly competitive prices.

| Specification | Overall Length L | Planting Depth | Load Applied From Top At A Distance of | Length Of Sections |               |            | Outside Diameter and Thickness of Sections |             |            | Approx Weight of Pole | Breaking Load | Working Load    |                   | Load for Permanent Set Not Exceeding 13MM | Load for Temporary Deflection 157.5 MM |
|---------------|------------------|----------------|--|--------------------|---------------|------------|--|-------------|------------|-----------------------|---------------|-----------------|-------------------|---|--|
|               |                  |                |  | Bottom h3 (m)      | Middle h2 (m) | Top h1 (m) | Bottom (mm)                                | Middle (mm) | Top (mm)   |                       |               | Col 14 2N (kgf) | Col 13 2.5N (kgf) |   |  |
| 1             | 2                | 3              | 4                                      | 6                  | 7             | 8          | 9  | 10          | 11         | w12                   | 13            | 15              | 16                | 17  | 18                                     |
| 410 SP-1      | 7.00             | 1.25           | 0.30                                   | 4.00               | 1.50          | 1.50       | 114.3X3.65                                 | 88.9X3.25   | 76.1X3.25  | 62                    | 2570 (262)    | 912 (93)        | 1030 (105)        | 1245 (127)                                | 785 (80)                               |
| 410 SP-2      | 7.00             | 1.25           | 0.30                                   | 4.00               | 1.50          | 1.50       | 114.3X4.50                                 | 88.9X4.05   | 76.1X3.25  | 73                    | 3100 (316)    | 1100 (112)      | 1240 (126)        | 1510 (154)                                | 941 (96)                               |
| 410 SP-3      | 7.00             | 1.25           | 0.30                                   | 4.00               | 1.50          | 1.50       | 114.3X5.40                                 | 88.9X4.85   | 76.1X3.25  | 85                    | 3630 (370)    | 1280 (131)      | 1450 (148)        | 1760 (180)                                | 1090 (111)                             |
| 410 SP-4      | 7.50             | 1.25           | 0.30                                   | 4.50               | 1.50          | 1.50       | 114.3X3.65                                 | 88.9X3.25   | 76.1X3.25  | 67                    | 2350 (240)    | 912 (93)        | 1030 (105)        | 1245 (127)                                | 785 (80)                               |
| 410 SP-5      | 7.50             | 1.25           | 0.30                                   | 4.50               | 1.50          | 1.50       | 114.3X4.50                                 | 88.9X4.05   | 76.1X3.25  | 79                    | 2760 (281)    | 981 (100)       | 1100 (112)        | 1340 (137)                                | 745 (76)                               |
| 410 SP-6      | 7.50             | 1.25           | 0.30                                   | 4.50               | 1.50          | 1.50       | 114.3X5.40                                 | 88.9X4.85   | 76.1X3.25  | 93                    | 3320 (339)    | 1180 (120)      | 1330 (136)        | 1620 (165)                                | 873 (89)                               |
| 410 SP-7      | 7.50             | 1.25           | 0.30                                   | 4.50               | 1.50          | 1.50       | 139.7X4.50                                 | 114.3X3.65  | 88.9X3.25  | 97                    | 4330 (442)    | 1540 (157)      | 1740 (177)        | 2110 (215)                                | 1400 (143)                             |
| 410 SP-8      | 7.50             | 1.25           | 0.30                                   | 4.50               | 1.50          | 1.50       | 139.7X4.85                                 | 114.3X3.65  | 88.9X3.25  | 103                   | 4630 (472)    | 1650 (168)      | 1850 (189)        | 2250 (229)                                | 1480 (151)                             |
| 410 SP-9      | 7.50             | 1.25           | 0.30                                   | 4.50               | 1.50          | 1.50       | 139.7X5.40                                 | 114.3X3.65  | 88.9X3.25  | 110                   | 5100 (520)    | 1810 (185)      | 2040 (208)        | 2480 (253)                                | 1600 (163)                             |
| 410 SP-10     | 8.00             | 1.50           | 0.30                                   | 4.50               | 1.75          | 1.75       | 114.3X3.65                                 | 88.9X3.25   | 76.1X3.25  | 70                    | 2260 (230)    | 804 (82)        | 902 (92)          | 1100 (112)                                | 520 (53)                               |
| 410 SP-11     | 8.00             | 1.50           | 0.30                                   | 4.50               | 1.75          | 1.75       | 114.3X4.50                                 | 88.9X4.05   | 76.1X3.25  | 83                    | 2730 (278)    | 971 (99)        | 1090 (111)        | 1320 (135)                                | 618 (63)                               |
| 410 SP-12     | 8.00             | 1.50           | 0.30                                   | 4.50               | 1.75          | 1.75       | 114.3X5.40                                 | 88.9X4.85   | 76.1X3.25  | 97                    | 3190 (325)    | 1130 (115)      | 1270 (130)        | 1550 (158)                                | 725 (74)                               |
| 410 SP-13     | 8.00             | 1.50           | 0.30                                   | 4.50               | 1.75          | 1.75       | 139.7X4.50                                 | 114.3X3.65  | 88.9X3.25  | 101                   | 4160 (424)    | 1480 (151)      | 1670 (170)        | 2020 (206)                                | 1180 (120)                             |
| 410 SP-14     | 8.00             | 1.50           | 0.30                                   | 4.50               | 1.75          | 1.75       | 139.7X4.85                                 | 114.3X4.50  | 88.9X3.25  | 111                   | 4440 (453)    | 1580 (161)      | 1770 (181)        | 2160 (220)                                | 1280 (131)                             |
| 410 SP-15     | 8.00             | 1.50           | 0.30                                   | 4.50               | 1.75          | 1.75       | 139.7X5.40                                 | 114.3X4.50  | 88.9X3.25  | 119                   | 4890 (499)    | 1740 (177)      | 1960 (200)        | 2380 (243)                                | 1380 (140)                             |
| 410 SP-16     | 8.50             | 1.50           | 0.30                                   | 5.00               | 1.75          | 1.75       | 114.3X3.65                                 | 88.9X3.25   | 76.1X3.25  | 75                    | 2090 (213)    | 745 (76)        | 834 (85)          | 1020 (104)                                | 432 (44)                               |
| 410 SP-17     | 8.50             | 1.50           | 0.30                                   | 5.00               | 1.75          | 1.75       | 114.3X4.50                                 | 88.9X4.05   | 76.1X3.25  | 89                    | 2520 (257)    | 893 (91)        | 1010 (103)        | 1230 (125)                                | 510 (52)                               |
| 410 SP-18     | 8.50             | 1.50           | 0.30                                   | 5.00               | 1.75          | 1.75       | 114.3X5.40                                 | 88.9X4.85   | 76.1X3.25  | 104                   | 2950 (301)    | 1050 (107)      | 1180 (120)        | 1430 (146)                                | 598 (61)                               |
| 410 SP-19     | 8.50             | 1.50           | 0.30                                   | 5.00               | 1.75          | 1.75       | 139.7X4.50                                 | 114.3X3.65  | 88.9X3.25  | 109                   | 3844 (392)    | 1360 (139)      | 1540 (157)        | 1800 (191)                                | 961 (98)                               |
| 410 SP-20     | 8.50             | 1.50           | 0.30                                   | 5.00               | 1.75          | 1.75       | 139.7X4.85                                 | 114.3X3.65  | 88.9X3.25  | 115                   | 4110 (419)    | 1460 (149)      | 1650 (168)        | 2000 (204)                                | 1010 (103)                             |
| 410 SP-21     | 8.50             | 1.50           | 0.30                                   | 5.00               | 1.75          | 1.75       | 139.7X5.40                                 | 114.3X4.50  | 88.9X3.25  | 129                   | 4530 (462)    | 1620 (164)      | 1810 (185)        | 2210 (225)                                | 1130 (115)                             |
| 410 SP-22     | 8.50             | 1.50           | 0.30                                   | 5.00               | 1.75          | 1.75       | 165.1X4.50                                 | 139.7X4.50  | 114.3X3.65 | 141                   | 5450 (556)    | 1930 (197)      | 2180 (222)        | 2650 (270)                                | 1730 (176)                             |
| 410 SP-23     | 8.50             | 1.50           | 0.30                                   | 5.00               | 1.75          | 1.75       | 165.1X4.85                                 | 139.7X4.50  | 114.3X3.65 | 148                   | 5840 (596)    | 2080 (212)      | 2330 (238)        | 2840 (290)                                | 1820 (186)                             |
| 410 SP-24     | 8.50             | 1.50           | 0.30                                   | 5.00               | 1.75          | 1.75       | 165.1X5.40                                 | 139.7X4.50  | 114.3X3.65 | 158                   | 6450 (658)    | 2340 (234)      | 2579 (263)        | 3140 (320)                                | 1970 (201)                             |
| 410 SP-25     | 9.00             | 1.50           | 0.30                                   | 5.00               | 2.00          | 2.00       | 114.3X3.65                                 | 88.9X3.25   | 76.1X3.25  | 78                    | 1940 (198)    | 686 (70)        | 775 (79)          | 941 (96)                                  | 333 (34)                               |
| 410 SP-26     | 9.00             | 1.50           | 0.30                                   | 5.00               | 2.00          | 2.00       | 114.3X4.50                                 | 88.9X4.05   | 76.1X3.25  | 92                    | 2340 (239)    | 834 (85)        | 941 (96)          | 1140 (116)                                | 402 (41)                               |
| 410 SP-27     | 9.00             | 1.50           | 0.30                                   | 5.00               | 2.00          | 2.00       | 114.3X5.40                                 | 88.9X4.85   | 76.1X3.25  | 108                   | 2750 (280)    | 971 (99)        | 1100 (112)        | 1330 (136)                                | 461 (47)                               |

| Specification | Overall Length L | Planting Depth | Load Applied From Top At A Distance of | Length Of Sections |               |            | Outside Diameter and Thickness of Sections |             |            | Approx Weight of Pole | Breaking Load | Working Load    |                   | Load for Permanent Set Not Exceeding 13MM | Load for Temporary Deflection 157.5 MM |
|---------------|------------------|----------------|--|--------------------|---------------|------------|--|-------------|------------|-----------------------|---------------|-----------------|-------------------|---|--|
|               | (m)              | (m)            | (m)                                    | Bottom h3 (m)      | Middle h2 (m) | Top h1 (m) | Bottom (mm)                                | Middle (mm) | Top (mm)   | (kg)                  | N(kgf)        | Col 14 2N (kgf) | Col 13 2.5N (kgf) | N(kgf)                                    | N(kgf)                                 |
| 1             | 2                | 3              | 4                                      | 6                  | 7             | 8          | 9  | 10          | 11         | w12                   | 13            | 15              | 16                | 17  | 18                                     |
| 410 SP-28     | 9.00             | 1.50           | 0.30                                   | 5.00               | 2.00          | 2.00       | 139.7X4.50                                 | 114.3X3.65  | 88.9X3.25  | 113                   | 3580 (365)    | 1270 (130)      | 1430 (146)        | 1740 (177)                                | 745 (76)                               |
| 410 SP-29     | 9.00             | 1.50           | 0.30                                   | 5.00               | 2.00          | 2.00       | 139.7X4.85                                 | 114.3X4.50  | 88.9X3.25  | 125                   | 3820 (390)    | 1350 (138)      | 1530 (156)        | 1860 (190)                                | 814 (83)                               |
| 410 SP-30     | 9.00             | 1.50           | 0.30                                   | 5.00               | 2.00          | 2.00       | 139.7X5.40                                 | 114.3X4.50  | 88.9X3.25  | 133                   | 4220 (430)    | 1500 (153)      | 1690 (172)        | 2050 (209)                                | 882 (90)                               |
| 410 SP-31     | 9.00             | 1.50           | 0.30                                   | 5.00               | 2.00          | 2.00       | 165.1X4.50                                 | 139.7X4.50  | 114.3X3.65 | 147                   | 5070 (517)    | 1800 (184)      | 2030 (207)        | 2460 (251)                                | 1360 (139)                             |
| 410 SP-32     | 9.00             | 1.50           | 0.30                                   | 5.00               | 2.00          | 2.00       | 165.1X4.85                                 | 139.7X4.50  | 114.3X3.65 | 154                   | 5430 (554)    | 1930 (197)      | 2180 (222)        | 2640 (269)                                | 1430 (146)                             |
| 410 SP-33     | 9.00             | 1.50           | 0.30                                   | 5.00               | 2.00          | 2.00       | 165.1X5.40                                 | 139.7X4.50  | 114.3X3.65 | 164                   | 6000 (612)    | 2130 (217)      | 2410 (245)        | 2910 (297)                                | 1540 (157)                             |
|               |                  |                |  |                    |               |            |  |             |            |                       |               |                 |                   |   |  |
| 410 SP-34     | 9.50             | 1.80           | 0.60                                   | 5.00               | 2.25          | 2.25       | 139.7X4.50                                 | 114.3X4.50  | 88.9X3.25  | 122                   | 3630 (370)    | 1280 (131)      | 1450 (148)        | 1760 (180)                                | 745 (76)                               |
| 410 SP-35     | 9.50             | 1.80           | 0.60                                   | 5.00               | 2.25          | 2.25       | 139.7X4.85                                 | 114.3X4.50  | 88.9X3.25  | 129                   | 3880 (396)    | 1390 (142)      | 1550 (158)        | 1880 (192)                                | 784 (80)                               |
| 410 SP-36     | 9.50             | 1.80           | 0.60                                   | 5.00               | 2.25          | 2.25       | 139.7X5.40                                 | 114.3X4.50  | 88.9X3.25  | 137                   | 4280 (436)    | 1520 (155)      | 1710 (174)        | 2080 (212)                                | 833 (85)                               |
| 410 SP-37     | 9.50             | 1.80           | 0.60                                   | 5.00               | 2.25          | 2.25       | 165.1X4.50                                 | 139.7X4.50  | 114.3X3.65 | 153                   | 5150 (525)    | 1820 (186)      | 2060 (210)        | 2500 (255)                                | 1300 (133)                             |
| 410 SP-38     | 9.50             | 1.80           | 0.60                                   | 5.00               | 2.25          | 2.25       | 165.1X4.85                                 | 139.7X4.50  | 114.3X3.65 | 160                   | 5510 (562)    | 1960 (200)      | 2210 (225)        | 2680 (273)                                | 1370 (140)                             |
| 410 SP-39     | 9.50             | 1.80           | 0.60                                   | 5.00               | 2.25          | 2.25       | 165.1X5.40                                 | 139.7X4.50  | 114.3X3.65 | 170                   | 6090 (621)    | 2160 (220)      | 2430 (248)        | 2960 (302)                                | 1480 (151)                             |
|               |                  |                |  |                    |               |            |  |             |            |                       |               |                 |                   |   |  |
| 410 SP-40     | 10.00            | 1.80           | 0.60                                   | 5.20               | 2.40          | 2.40       | 139.7X4.50                                 | 114.3X4.50  | 88.9X3.25  | 128                   | 3390 (346)    | 1210 (123)      | 1350 (138)        | 1650 (168)                                | 608 (62)                               |
| 410 SP-41     | 10.00            | 1.80           | 0.60                                   | 5.20               | 2.40          | 2.40       | 139.7X4.85                                 | 114.3X4.50  | 88.9X3.25  | 135                   | 3630 (370)    | 1280 (131)      | 1450 (148)        | 1760 (180)                                | 637 (65)                               |
| 410 SP-42     | 10.00            | 1.80           | 0.60                                   | 5.20               | 2.40          | 2.40       | 139.7X5.40                                 | 114.3X4.50  | 88.9X3.25  | 144                   | 3990 (407)    | 1410 (144)      | 1600 (163)        | 1940 (198)                                | 677 (69)                               |
| 410 SP-43     | 10.00            | 1.80           | 0.60                                   | 5.20               | 2.40          | 2.40       | 165.1X4.50                                 | 139.7X4.50  | 114.3X3.65 | 160                   | 4810 (490)    | 1710 (174)      | 1920 (196)        | 2330 (238)                                | 1060 (108)                             |
| 410 SP-44     | 10.00            | 1.80           | 0.60                                   | 5.20               | 2.40          | 2.40       | 165.1X4.85                                 | 139.7X4.50  | 114.3X3.65 | 168                   | 5150 (525)    | 1820 (186)      | 2060 (210)        | 2500 (255)                                | 1120 (114)                             |
| 410 SP-45     | 10.00            | 1.80           | 0.60                                   | 5.20               | 2.40          | 2.40       | 165.1X5.40                                 | 139.7X4.50  | 114.3X3.65 | 178                   | 5690 (580)    | 2020 (206)      | 2280 (232)        | 2760 (282)                                | 1200 (122)                             |
| 410 SP-46     | 10.00            | 1.80           | 0.60                                   | 5.20               | 2.40          | 2.40       | 193.7X4.85                                 | 165.1X4.50  | 139.7X4.50 | 208                   | 7210 (735)    | 2560 (261)      | 2880 (294)        | 3500 (357)                                | 1850 (189)                             |
| 410 SP-47     | 10.00            | 1.80           | 0.60                                   | 5.20               | 2.40          | 2.40       | 193.7X5.40                                 | 165.1X4.50  | 139.7X4.50 | 221                   | 7910 (807)    | 2800 (286)      | 3170 (323)        | 3840 (392)                                | 1990 (203)                             |
| 410 SP-48     | 10.00            | 1.80           | 0.60                                   | 5.20               | 2.40          | 2.40       | 193.7X5.90                                 | 165.1X4.50  | 139.7X4.50 | 233                   | 8620 (879)    | 3060 (312)      | 3450 (352)        | 4190 (427)                                | 2110 (215)                             |
|               |                  |                |  |                    |               |            |  |             |            |                       |               |                 |                   |   |  |
| 410 SP-49     | 11.00            | 1.80           | 0.60                                   | 5.60               | 2.70          | 2.70       | 139.7X4.50                                 | 114.3X4.50  | 88.9X3.25  | 140                   | 3000 (306)    | 1070 (109)      | 1200 (122)        | 1460 (149)                                | 412 (42)                               |
| 410 SP-50     | 11.00            | 1.80           | 0.60                                   | 5.60               | 2.70          | 2.70       | 139.7X4.85                                 | 114.3X4.50  | 88.9X3.25  | 147                   | 3210 (327)    | 1140 (116)      | 1280 (131)        | 1560 (159)                                | 431 (44)                               |
| 410 SP-51     | 11.00            | 1.80           | 0.60                                   | 5.60               | 2.70          | 2.70       | 139.7X5.40                                 | 114.3X4.50  | 88.9X3.25  | 164                   | 3530 (360)    | 1260 (128)      | 1410 (144)        | 1720 (175)                                | 480 (49)                               |
| 410 SP-52     | 11.00            | 1.80           | 0.60                                   | 5.60               | 2.70          | 2.70       | 165.1X4.50                                 | 139.7X4.50  | 114.3X3.65 | 175                   | 4250 (433)    | 1510 (154)      | 1700 (173)        | 2060 (210)                                | 726 (74)                               |
| 410 SP-53     | 11.00            | 1.80           | 0.60                                   | 5.60               | 2.70          | 2.70       | 165.1X4.85                                 | 139.7X4.50  | 114.3X3.65 | 183                   | 4550 (464)    | 1620 (165)      | 1820 (186)        | 2220 (228)                                | 765 (78)                               |
| 410 SP-54     | 11.00            | 1.80           | 0.60                                   | 5.60               | 2.70          | 2.70       | 165.1X5.40                                 | 139.7X4.50  | 114.3X3.65 | 194                   | 5030 (513)    | 1780 (182)      | 2010 (205)        | 2440 (249)                                | 814 (83)                               |
| 410 SP-55     | 11.00            | 1.80           | 0.60                                   | 5.60               | 2.70          | 2.70       | 193.7X4.85                                 | 165.1X4.50  | 139.7X4.50 | 227                   | 6370 (650)    | 2260 (231)      | 2550 (260)        | 3100 (316)                                | 1270 (130)                             |
| 410 SP-56     | 11.00            | 1.80           | 0.60                                   | 5.60               | 2.70          | 2.70       | 193.7X5.40                                 | 165.1X4.50  | 139.7X4.50 | 241                   | 6990 (713)    | 2480 (253)      | 2790 (285)        | 3400 (347)                                | 1370 (140)                             |
| 410 SP-57     | 11.00            | 1.80           | 0.60                                   | 5.60               | 2.70          | 2.70       | 193.7X5.90                                 | 165.1X4.85  | 139.7X4.50 | 256                   | 7620 (777)    | 2710 (276)      | 3050 (311)        | 3710 (378)                                | 1470 (150)                             |
|               |                  |                |  |                    |               |            |  |             |            |                       |               |                 |                   |   |  |
| 410 SP-58     | 12.00            | 2.00           | 0.60                                   | 5.80               | 3.10          | 3.10       | 165.1X4.50                                 | 139.7X4.50  | 114.3X3.65 | 186                   | 3880 (396)    | 1380 (141)      | 1550 (158)        | 1880 (192)                                | 539 (55)                               |
| 410 SP-59     | 12.00            | 2.00           | 0.60                                   | 5.80               | 3.10          | 3.10       | 165.1X4.85                                 | 139.7X4.50  | 114.3X3.65 | 197                   | 4160 (424)    | 1480 (151)      | 1670 (170)        | 2020 (206)                                | 569 (58)                               |
| 410 SP-60     | 12.00            | 2.00           | 0.60                                   | 5.80               | 3.10          | 3.10       | 165.1X5.40                                 | 139.7X4.50  | 114.3X3.65 | 208                   | 4600 (469)    | 1630 (166)      | 1840 (188)        | 2240 (228)                                | 598 (61)                               |
| 410 SP-61     | 12.00            | 2.00           | 0.60                                   | 5.80               | 3.10          | 3.10       | 193.7X4.85                                 | 165.1X4.50  | 139.7X4.50 | 245                   | 5820 (594)    | 2070 (211)      | 2330 (238)        | 2830 (289)                                | 951 (97)                               |
| 410 SP-62     | 12.00            | 2.00           | 0.60                                   | 5.80               | 3.10          | 3.10       | 193.7X5.40                                 | 165.1X4.50  | 139.7X4.50 | 259                   | 6390 (652)    | 2270 (231)      | 2560 (261)        | 3110 (317)                                | 1010 (103)                             |
| 410 SP-63     | 12.00            | 2.00           | 0.60                                   | 5.80               | 3.10          | 3.10       | 193.7X5.90                                 | 165.1X4.85  | 139.7X4.50 | 277                   | 6960 (710)    | 2470 (252)      | 2790 (284)        | 3390 (345)                                | 1090 (111)                             |
| 410 SP-64     | 12.00            | 2.00           | 0.60                                   | 5.80               | 3.10          | 3.10       | 219.1X4.85                                 | 193.7X4.85  | 165.1X4.50 | 292                   | 7490 (764)    | 2660 (271)      | 3000 (306)        | 3640 (371)                                | 1460 (149)                             |
| 410 SP-65     | 12.00            | 2.00           | 0.60                                   | 5.80               | 3.10          | 3.10       | 219.1X5.60                                 | 193.7X4.85  | 165.1X4.50 | 313                   | 8530 (871)    | 3030 (309)      | 3410 (348)        | 4150 (423)                                | 1610 (164)                             |
| 410 SP-66     | 12.00            | 2.00           | 0.60                                   | 5.80               | 3.10          | 3.10       | 219.1X5.90                                 | 193.7X4.85  | 165.1X4.50 | 322                   | 8980 (916)    | 3190 (325)      | 3590 (366)        | 4360 (445)                                | 1660 (169)                             |
|               |                  |                |  |                    |               |            |  |             |            |                       |               |                 |                   |   |  |
| 410 SP-67     | 13.00            | 2.00           | 0.60                                   | 5.80               | 3.60          | 3.60       | 193.7X4.85                                 | 165.1X4.50  | 139.7X4.50 | 281                   | 5270 (537)    | 1870 (191)      | 2110 (215)        | 2560 (261)                                | 677 (69)                               |
| 410 SP-68     | 13.00            | 2.00           | 0.60                                   | 5.80               | 3.60          | 3.60       | 193.7X5.40                                 | 165.1X4.85  | 139.7X4.50 | 281                   | 5790 (590)    | 2050 (209)      | 2310 (236)        | 2810 (287)                                | 735 (75)                               |
| 410 SP-69     | 13.00            | 2.00           | 0.60                                   | 5.80               | 3.60          | 3.60       | 193.7X5.90                                 | 165.1X5.40  | 139.7X4.50 | 302                   | 6300 (642)    | 2240 (228)      | 2520 (257)        | 3060 (312)                                | 794 (81)                               |
| 410 SP-70     | 13.00            | 2.00           | 0.60                                   | 5.80               | 3.60          | 3.60       | 219.1X4.85                                 | 193.7X4.85  | 165.1X4.50 | 312                   | 6780 (691)    | 2400 (245)      | 2710 (276)        | 3300 (336)                                | 1060 (108)                             |
| 410 SP-71     | 13.00            | 2.00           | 0.60                                   | 5.80               | 3.60          | 3.60       | 219.1X5.60                                 | 193.7X4.85  | 165.1X4.50 | 333                   | 7720 (787)    | 2740 (279)      | 3090 (315)        | 3750 (382)                                | 1160 (118)                             |
| 410 SP-72     | 13.00            | 2.00           | 0.60                                   | 5.80               | 3.60          | 3.60       | 219.1X5.90                                 | 193.7X4.85  | 165.1X4.50 | 343                   | 8120 (828)    | 2880 (294)      | 3250 (331)        | 3940 (402)                                | 1190 (121)                             |
|               |                  |                |  |                    |               |            |  |             |            |                       |               |                 |                   |   |  |
| 410 SP-73     | 14.50            | 2.00           | 0.60                                   | 6.50               | 4.00          | 4.00       | 193.7X5.40                                 | 165.1X4.85  | 139.7X4.50 | 312                   | 5050 (515)    | 1790 (183)      | 2020 (206)        | 2450 (250)                                | 500 (51)                               |
| 410 SP-74     | 14.50            | 2.00           | 0.60                                   | 6.50               | 4.00          | 4.00       | 193.7X5.90                                 | 165.1X5.40  | 139.7X4.50 | 336                   | 5500 (561)    | 1950 (199)      | 2200 (224)        | 2680 (273)                                | 539 (55)                               |
| 410 SP-75     | 14.50            | 2.00           | 0.60                                   | 6.50               | 4.00          | 4.00       | 219.1X5.60                                 | 193.7X4.85  | 165.1X4.50 | 370                   | 6750 (688)    | 2390 (244)      | 2700 (275)        | 3780 (334)                                | 775 (79)                               |
| 410 SP-76     | 14.50            | 2.00           | 0.60                                   | 6.50               | 4.00          | 4.00       | 219.1X5.90                                 | 193.7X4.85  | 165.1X4.50 | 380                   | 7100 (724)    | 2520 (257)      | 2840 (290)        | 3450 (352)                                | 794 (81)                               |
|               |                  |                |  |                    |               |            |  |             |            |                       |               |                 |                   |   |  |
| 410 SP-77     | 16.00            | 2.30           | 0.60                                   | 7.00               | 4.50          | 4.50       | 193.7X5.40                                 | 165.1X4.85  | 139.7X4.50 | 341                   | 4590 (468)    | 1630 (166)      | 1830 (187)        | 2230 (227)                                | 363 (37)                               |
| 410 SP-78     | 16.00            | 2.30           | 0.60                                   | 7.00               | 4.50          | 4.50       | 193.7X5.90                                 | 165.1X5.40  | 139.7X4.50 | 367                   | 5000 (510)    | 1780 (181)      | 2000 (204)        | 2430 (248)                                | 392 (40)                               |
| 410 SP-79     | 16.00            | 2.30           | 0.60                                   | 7.00               | 4.50          | 4.50       | 219.1X5.60                                 | 193.7X4.85  | 165.1X4.50 | 405                   | 6130 (625)    | 2180 (222)      | 2450 (250)        | 2980 (304)                                | 569 (58)                               |
| 410 SP-80     | 16.00            | 2.30           | 0.60                                   | 7.00               | 4.50          | 4.50       | 219.1X5.90                                 | 193.7X4.85  | 165.1X4.50 | 416                   | 6440 (657)    | 2280 (233)      | 2580 (263)        | 3130 (319)                                | 588 (60)                               |









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