

# **ABOUT US**

PRD GROUP Incorporated in the year 1987, in KOLHAPUR (Maharashtra, India), WE "MATRIX GRATING PVT.LTD" are the eminent organization involved in Prime Manufacturer, Leading suppliers and traders of the wide industry of Steel & Transmission line sector. Our products are developed in strict compliance with the set industry standards and norms. We carry out all our processes with acute precision as well as upgrade our manufacturing facilities time to time so as to come up with an advanced range of engineering products. Under the supervision of our mentor, "Mr. P.R.DURGE", we have positioned ourselves in the reputed names of this industry. Owing to his rich domain experience and knowledge acumen, we have been able to fulfill specific requirements of clients in a systematic manner.

# **BUSINESS TYPE**

Manufacturer, Supplier, Trader, Exporter

# **PRODUCT RANGE**

- ► TRANSMISSION LINE TOWER AND SUBSTATION STRUCTURES
- HEAVY FABRICATION SERVICE
- HOT DIP GALVANISING SERVICE
- RAILWAY ELECTRIFICATION STRUCTURES
- ► EARTHING STRIPS [MS/GI Flat]
- ► SOLAR MOUNTING STRUCTURE (Rooftop , Ground Mounted ,Carport Structures )
- ► GRATING (MS, HDG & PAINTED GRATING)
- ► CABLE TRAY (LTCT, PCT, RACEWAY & JUNCTION BOX)
- RSJ POLE DEALER

## TRANSMISSION TOWER & SUB STATION STRUCTURE

Matrix Grating Pvt Ltd is the **leading Manufacturer of Transmission line Tower, Substation Structure, Telecom Tower, railway electrifications & Heavy Fabrication** 

Manufacturing company in India. Company has its world class manufacturing plants in accordance with ISO 9000 in the vibrant serene city of Kolhapur District in western region India close to the Sea Port city of Mumbai. and has earned a reputation for quality and timely supplies to many reputed customers worldwide MATRIX Transmission towers are not viewed as a product, but as a service. From designing and assembling each component to the delivery of a customized product, Matrix is present along the entire value chain.



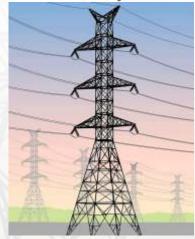




At MATRIX, we offer our customers a full-range-cum-diverse product basket ranging from 66kV to 765kV Towers (Single Circuit, Double Circuit, Multi Circuit Towers suitable for Twin, Quad and Hex Conductor configurations).

### Some typical power transmission tower configurations produced by MATRIX are classified by:-

- 1. Angular/Tubular/Hybrid
- 2. Current i.e. AC Line or DVDC line.
- 3. By phases: single phase line or three phase line
- 4. By circuit: i) Single circuit vertical, horizontal & delta configuration towers, ii) Double circuit Line, iii) Multi circuit Lines
- 5. By Materials: i) Structural Steel in Latticed form, ii) Steel tubular Sections. iii) concrete construction.
- 6. EHT/VHT/UHT according to the voltage carrying capacity.



# COMPANY 'STRONG FOCUS AND COMMITMENT TOWARDS PRODUCT QUALITY HAS MADE IT THE MANUFACTURING PARTNER

# HERE ARE JUST SOME OF THE MUCH STRENGTH AND ADVANTAGES OF MATRIX TOWER MANUFACTURING DIVISION:

- ▶ Among the best Capacity Utilization (consistently **90%** for several years) in the Industry
- ▶ In-House Design & Engineering department helps reduce the project cost for our customers through optimized Tower designs and also ensure the accuracy of structure fitment so that site rectifications are eliminated.
- ▶ Almost 75% Production is through **Automated lines**
- ▶ Imported Angle cutting & punching Machines, hydraulic and mechanical power presses with an annual installed capacity of 2000 MT/Month,

- ▶ MIG Welding machines with qualified welders,
- ▶ Large Proto Assembly Areas for towers upto 90mtrs
- ▶ 7 Tank Galvanizing plants in-house with a Galvanizing capacity of over 20000 MT per year
- ▶ Entire Manufacturing process and Inventory control through **Automated ERP solution**
- ► Strong Quality Assurance and Modern Testing Laboratories
- ▶ Best in the Industry Packing & Bunding process using Wire Weaving and Metal Strapping to ensure Faster Inventory reconciliation and zero shortage of material at sites
- ▶ Additional Lashing & Choking Packing process for Export containers

## Design Engineering

Design department with latest hardware and AutoCAD software to meet specific customer requirement. A system in place to prepare GA drawing from line diagram and subsequent shop floor drawing for fabrications.

Modern ION ERP- Dedicated for transmission line Tower division, it is a complete ERP application which involves modules such as purchase, inventory, production & plannning, sales and dispatch. This application has reduced the scrap and wastage calculation which was humanly not possible to calculate., as there are many production related parameter that are taken into consideration.

#### **Substations Structure:**

#### **Design & Detailed Engineering**

Design: Electrical, Civil, Structural and auxiliaries up to 765kV Drawing and documentation, detailed engineering

In-House capability to design switchyard layout structures, control room, earth mat, firefighting auxiliary power supply, illumination, erection key diagrams.

Project planning and coordination, manufacturing equipment support and Gantry structures at our manufacturing facilities.

**Quality :-** We are an ISO 9001 company certified and have an internal quality control lab with UT testing machine for mechanical and a chemical testing lab for all incoming materials. The quality will be controlled from the raw material stage to the finishing stage including sub assembly level, proto level as well as before and after galvanizing.

**Export:**- Our Plant in Kolhapur Distract, close to the Port city of Mumbai makes it an ideal choice for export of towers with major sea lines operating to all major ports in the world. Matrix is a registered Export House with Container loading facilities and customs clearance facilities in allowing containers to be directly loaded on the ship in Mumbai without any waiting time.

MATRIX HAS A SUCCESSFUL TRACK RECORD FOR EXPORT OF TOWERS TO MANY COUNTRIES

## **Product Specifications**

At Matrix Grating Pvt Ltd, we offer our customers a full-range-cum-diverse product basket ranging from 32 KV to 800 KV Towers (Single Circuit, Double Circuit, Multi-Circuit Towers suitable for Twin, Triple, Quad or Hex Conductor configurations). We can offer Tower materials as per Indian as well as International material grades ranging from BSEN to ASTM to GOST.

| Fabrication<br>Standard           | Indian Standard<br>IS: 802 Part II 1978 | International Standards<br>CEI IEC 60826   |
|-----------------------------------|---|--|
|                                   |   |  |
| Tower Materials –<br>High Tensile | IS:2062-2006 (E350A)<br>IS:1852         | BSEN 10025-1/2, BSEN<br>10056-1/2(S355JR/JO), ASTM<br>A572 (Grade 42 Y.S 290, Grade<br>50 Y.S 345), GOST 2772-88 Gr.<br>C345 |
| Galvanizing                       | IS:2629, IS:2633,<br>IS:4749            | BS 729, BSEN ISO 1461, ASTM<br>A-123, ASTM A-153   |
| Fasteners                         | IS:1367, IS:1247<br>Grade 5.6 & 8.8     | ISO – 4759-3, BS:4190, ASTM<br>A394, DIN-555, DIN 7990, DIN-<br>931  |

#### **Tower Accessories**

MATRIX made its first entry into the Hot Forging manufacturing by starting Tower Accessories. These are used for facilitating connection between the Tower and conductors and although small, are critical for commencement of Erection activities. Some of our Products are as follows:

- Foundation Bolt
- ▶ Tower Bolts.
- Hangers
- D-Shackles
- Bird Guards
- Anti Climbing Devices
- ▶ Step Bolts

### Benefits to customers:

- ▶ Ensuring "Zero shortage" of materials supplied and received at site
- ▶ Hassel free joint verification can be carried out
- Efficient materials management (sorting, bundling and storage) at site.
- Minimal time required as compare to physical joint verification
- ▶ Ensuring efficient material handling and tracking from delivery to erection of towers.

we commenced manufacturing for Mild Steel & High Tensile Fasteners .which are an integral part of the Tower package. Today, we are providing a wide range of Bolt/Nuts/washers with in-house Galvanizing to ensure faster erection turn-around for it's customers and also reducing the need for storing surplus inventory at site.

# **HEAVY FABRICATION SERVICE**

We are a genuine manufacturer and supplier of Indian domestic market We are offering our clients with **Heavy Fabrication Services.** Doing a job and doing it right are two different expressions. For over 10 years, MATRIX has followed stringent commitment in doing things the right way. The mission is evident through our fabrication services where we commit to high quality fabrication, products and customer service. With our heavy engineering plant Offered services are executed in an efficient and prompt manner with the help of advanced tools and contemporary machines. . our capability to deliver a comprehensive and integrated

solution to design, construction and customized fabrication services. We have developed enviable reputation throughout the country for having fabrication capacity of over 1000MT monthly, delivering a wide gamut of industries including cement, sugar, steel and power plants with the best quality heavy steel fabrication on time, every time.



# HOT DIP GALVANISING SERVICE

We are leading galvanizing company since 5 years. Our group is ISO certified 9001:2015

A unique combination of service and commitment to exceed your expectations through Hard Work, Innovation Technology, Customer Focus, Quality and Timely delivery are the Forte of Matrix Grating Pvt Ltd.

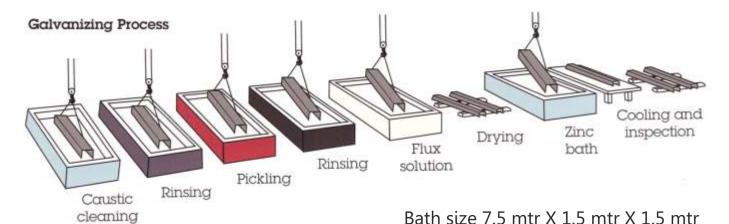
We manufacture these products by strictly adhering to a number of internationally acclaimed standard and

specifications. Our company has a highly sophisticated

manufacturing unit equipped with advanced technologies. The unit is operated by team of highly skilled techno crafts enriched with indepth knowledge in plating technologies & manufacturing process.

As part of our ongoing commitment to excellence, we at Matrix Grating Pvt Ltd, follow a stringent quality control policy to ensure A-class quality in each and every product we manufacture at





# We have a fully equipped state-of-the-art laboratory to carry out the following quality control checks:

Elcometer Test Knife Edge Test Preece Test Pivot Hammer Test Strip Test
To ensure that customer satisfaction, we maintain a set of internationally recognized quality standards with our products. These standards and specifications include:

| A153/A153M Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware | ASTM 123       |
|--|----------------|
| IS 2629,6745   | BS 729         |
| ASTM F 2329nthreated fasteners   | BS EN ISO 1461 |

All the manufacturing process at our company are performed as per International norms and standards. We strictly adhere to a 7 tank process during galvanization of our products.

Galvanizing is a central activity in the supply chain which offers scope for backward and forward integration.

- Fabrication for industrial and infrastructure projects.
- Trading of non-ferrous metal and scrap
- Open doors to Manufacturing/ trading of galvanized products such as cable trays, galvanized hardware,
- transmission and electrical accessories, cold roll steel, structural steel like beams, TMT bars, Piping fo oil and sector
- Exposure to a various industries which require galvanizing and gain opportunities in expanding business.

### Application of Hot-Dip Galvanising

- Infrastructure
- Solar and wind energy
- Oil and Gas
- Railways
- ▶ Industrial Turnkey Project and many more......
- Marine and Shipping
- Automobiles
- **▶** Telecommunication
- ▶ Electrical and Power Transmission



# RAILWAY ELECTRIFICATION STRUCTURES

We are an CORE PORT I approved vender to manufacture and supply all ranges of structures, Like portals, Masts, Beams, Gantries, Small Parts Steel, Substation Structures and special type of Structures and galvanized ERW steel Tubes and Counter Weight Guide Tube(RI-No.5063-1).

## Versatile Offerings

At Matrix, we offer our customers CORE approved full-range-cum-diverse product basket.

- RSJ MAST
- BFB MAST
- B-SERIES MAST
- SPECIAL MAST
- TTC MAST
- PORTAL
- ▶ SPS
- ▶ TSS STRUCTURE





# **EARTHING STRIPS**

#### [MS/GI Flat]

Our company is a reliable name in this business, involved in catering a wide range of MS & GI Flat to our precious clients.. We are wide stockist in the earthing strips. This MS & GI Flat is high in demand, bent upon the fact of its high welding ability and less carbon content. Beside this, we offer these products at most reasonable rates. We are Approved by MSETCL Features: Affordable price, Durability, Anti-corrosive

# **SOLAR STRUCTURE**

(Rooftop , Ground Mounted ,Carport Structures )

We are manufacturer of all types solar structures having 1000 MT capacity. These are module mounting structures where Solar Panels are mounted. They support Solar Models from the roof. Being important structural elements, they must be manufactured exactly to specification. These structures are as important as Modules.

Galvanized Steel As per IS 277; ASTM A 653 (80gsm - 550gsm).

HR Steel having min Yield strength of 250Mpa/350Mpa with Hot dip Galvanized up to 100 microns as per is IS 4759.

APPLICATIONS: Roof Top Structures , Ground Mounted Structures, Carport Structures

ADVANTAGES: Very high strength-to-weight ratio; high strength, low cost. Significantly reduces installation time. No site drilling or cutting required. Maintenance-free owing to application of proper surface finish. cut to exact lengths with prepunched holes to avoid time and material wastage. Accessories like, connecting plates, angles splicing plates supplied along with main structure Custom designed Sections as per customer requirement

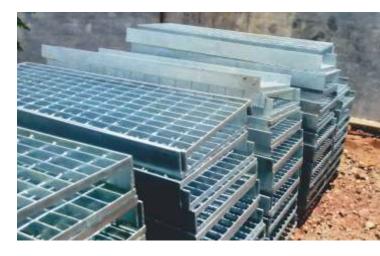




## **GRATING**

#### (MS, HDG & PAINTED GRATING)

Grating is a regularly spaced collection of essentially identical, parallel, elongated elements, Grating creates a mesh within the frame bar by laying one set perpendicular to another set. Grating is the most important production element from our manufacturing unit, our gratings have some magnificent features within, such as it is light in weight, good strength, large carrying capacity, cost effective. gratings offer good ventilation, easy clean and easy installation. Gratings have number of applications; this product is basically designed for civil constructions in city road, garden, yard, airport and railways.



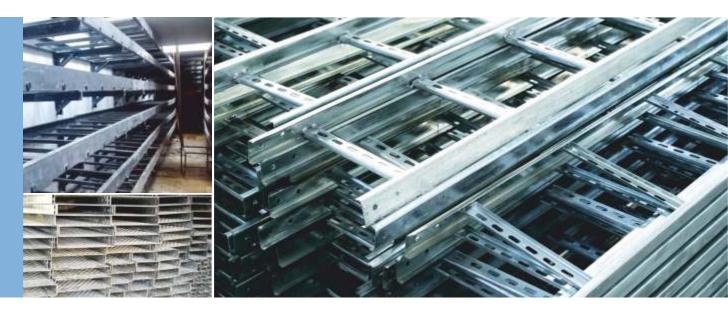
For long life of gratings, can be hot -dip galvanized, it is a treatment providing rust proofing and maintenance free replacement, thus gratings can stay hygienic, clean and bright finish. High strength, a very important factor which our gratings consist, measures the toughness, durability of the product.

Gratings are made from various material for different applications, the most common being mild steel, our gratings are made from MS confirming to IS 2062 GR A / ASTM A36 For chemical plants, highly corrosive environment, high temperature zones,

# CABLE TRAY

#### (LTCT, PCT, RACEWAY & JUNCTION BOX)

We are Instrumental in Designing And Manufacturing an Industrially verified range of perforated and ladder type cable trays that are accompanied with cable support systems and accessories such as bends, elbows, reducers, risers, tees and cross. These cable trays are fabricated from high quality hot dip galvanizing that makes them anti corrosive. These cable trays are integrated with cable support systems that can withstand dynamic load and are also provided with suitable couplers, clamps, brackets and fasteners for proper and efficient installation. Specifications: Capacity: 240Km PA ,Width: Ranging from 50 to 1200mm (2" to 48"),Length of panels: 2.5 or 3 meters,MOC: Hot rolled, cold rolled or aluminum sheet confirming to IS 1079,Thickness: 1.6mm, 2mm, 2.5mm & 3mm



### FABRICATION AND GALVANIZING PLANT \_\_\_\_\_



















## FACILITIES \_\_\_\_\_

- State- of- art fabrication and galvanizing company in india.
- Hot dip galvanizing bath size 8 mtrs long x 1.5 mtrs deep x 1.5 mtrs wide
- 15000 mt per annum production capacity.
- Etp plant
- In house weighing facility up to 60 ton capacity.
- In house quality testing facility with well equipped chemical & mechanical lab.
- In house proto type inspection facility.
- Monthly up to 1000 ton inventory storage area in raw yard and finishing area each.
- 24 hour power backup with 125 kv dg.
- Residential provision for technical staff and workers.
- System oriented consumable store.

# **OUR CLIENTS**







### PRD Group of Companies









# MATRIX GRATING PVT.LTD CONTACT INFORMATION

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