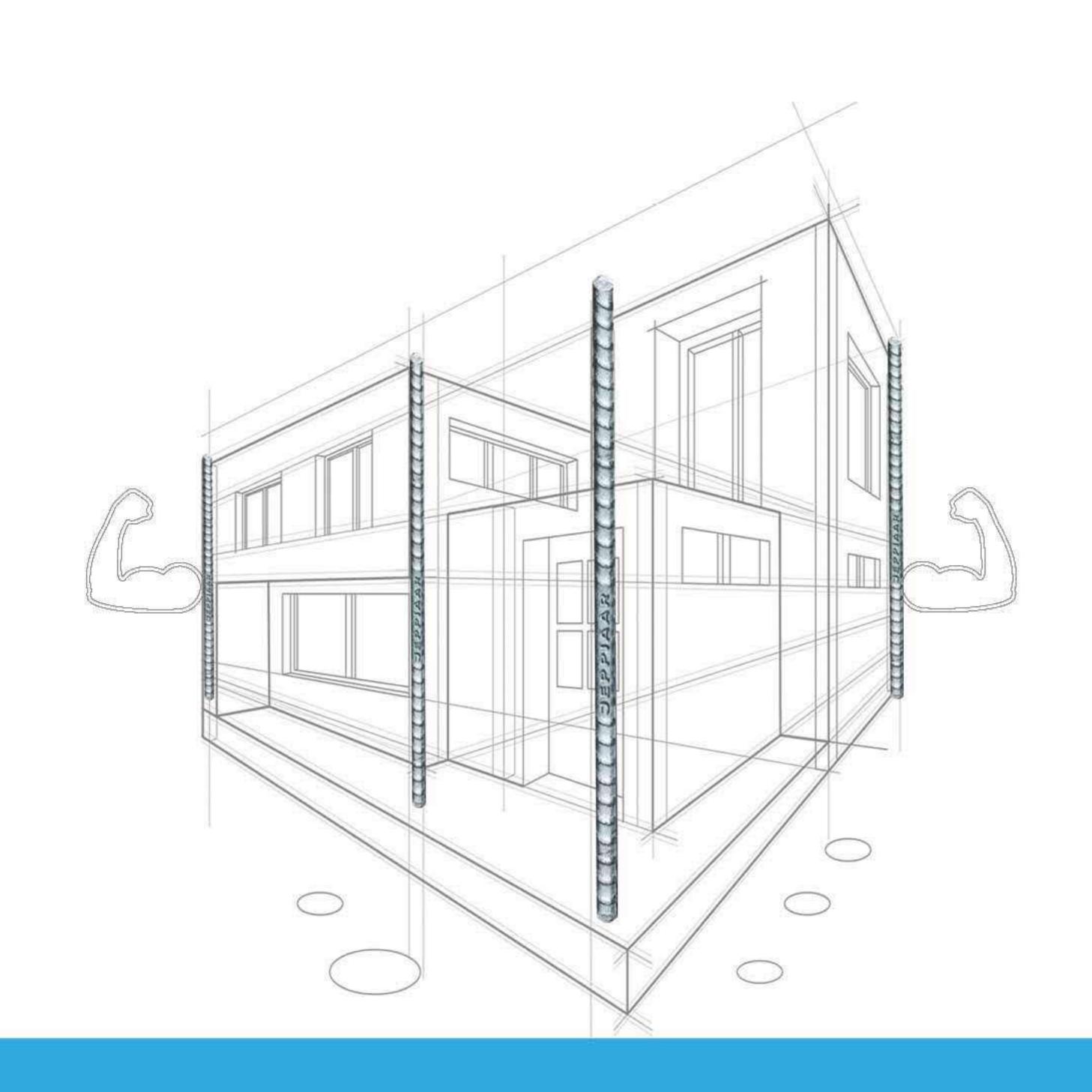




TRUST OF BUILDINGS

WE ARE THE FUTURE OF TMT REBARS 99





#### ABOUT

# JEPPIAAR STEEL FACTORY

Colonel Jeppiaar, an Educationalist and a Philanthropist, founded JET ASSOCIATES in 2006 to manufacture reinforcement steels (TMT Bars). In 2009, the company established a furnace division to manufacture MS billets. In 2010, both the manufacturing divisions were brought under one roof, leading to the establishment of Jeppiaar Furnace and Steels Private Limited (JFASPL)

At JFASPL, we believe in continuous improvement across all facets of manufacturing and quality. An experienced workforce helps in driving the company to new heights with commitment to quality and compliance to occupational health and safety standards.





# WE ARE PROUD OF

- Being one of the leading manufacturer of TMT Bars in Tamil Nadu with more than
   1 Lakh Metric Ton capacity per annum.
- Being fastest Growing TMT Bar in Tamilnadu, Kerala, Karnataka and Maldives.
- Having largest Consumer Base over 37 districts in Tamilnadu.
- Having longest Hot charging platform in Tamilnadu.





#### WHY BUY

# JEPPIAAR TMT BARS





CORROSION RESISTANCE

Does not corrode in cement



COST **EFFECTIVE** 

Saving Upto 26%



EARTHQUAKE RESISTANCE

**Enhanced Safety** 



#### FIRE RESISTANCE

Upto 600° C



STRING AGEING

Longer Life



**EXCELLENT** FLEXIBILITY

Bendability



**EASILY** WELDABLE

Strong Bonding



#### **FORMABILITY**

Excellent Workability



# THERMO MECHANICAL TREATMENT

JFASPL TMT bars are charged into the quenching box, designed in Belgium Model, wherein softened water at high pressure is sprayed to cool down the top layer of the TMT bar to make the top layer (Martensites) hard (UTS).



# CORROSION RESISTANT

JFASPL uses the correct mixture of nickel, chromium, copper and phosphorus to increase the corrosion resistance of TMT Bars. This optimal chemical composition forms a protective layer and provides extra protection against corrosion due to oxygen and moisture.





## EARTHQUAKE RESISTANT

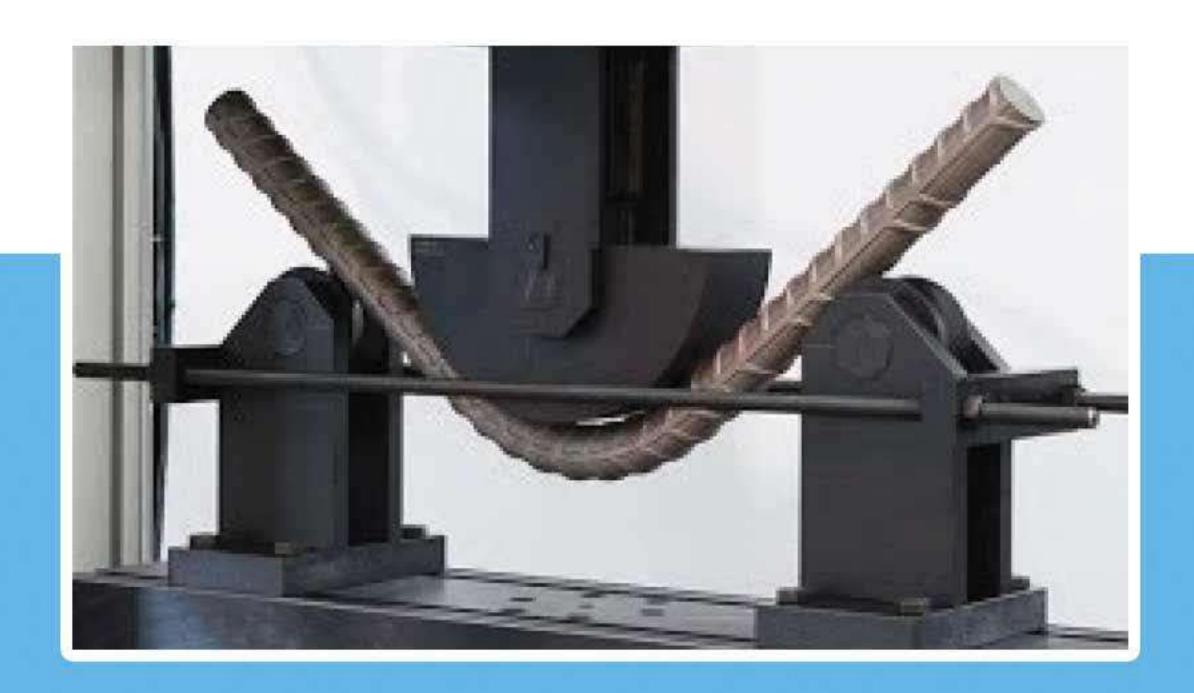
The buckling effect will occur while applying load to the structure even after deformation, thus become unstable. Such impact load occurs during earthquake, causing the structure to collapse.

JFASPL bars can withstand the buckling effect that occurs due to sudden sideways deflection of a structure member.



# SUITABLE FOR USING THREADED STABLE COUPLERS

JFASPL bars can withstand high pressure cold forging process and can be forged uniformly to the required length. Our TMT bars can withstand the threading process (both taper and parallel) without generating metal shavings, which may cause harm while joining two rods with coupler.



# BENDING AND RE-BENDING

JFASPL bars with it's high quality bending properties, supports manufacturing of Links, Stirrup, Ties, Chairs, Springs etc., as required by project sites and as per B.O.Q. The unused fabricated stock can be easily rebendable and to bring it to its original position i.e. full length.



#### PRE - STRESSING

JFASPL bars will be stable during the prestressing process thereby protecting the RCC structure even when there is a high creep and shrinkage loss in the concrete.

These pre - stressed rods will counter balance the creep and shrinkage loss in the surrounding concrete and will have residual stress levels to sustain the required pre - stressing force.

#### WHY YOU SHOULD





#### BEST OF RAW MATERIAL

JFASPL source raw material from the finest suppliers. Stringent measures are in place while inspecting the raw material to ensure that all quality standards are adhered to. The entire manufacturing process is tuned towards reducing wastage and improving productivity. Raw materials are stored and processed using the latest technology.

JFASPL takes extra caution to remove dissolved gases from molten steel, homogenize temperature and chemical composition, remove non - metallic inclusions caused by flotation, disperse alloy elements and additives uniformly and enhance the chemical reaction rate among others.

#### **ADVANCED TECHNOLOGIES**

JFASPL acquires and implements latest technologies continuously to improve product quality. JFASPL are proud to have the longest hot charging platform in Tamil Nadu. The Belgium designed high quality rollers with their periodical maintenance provides uniformity in dimension. The raw material yard is equipped with modern machineries that supports faster unloading of raw material and charging into furnance. JFASPL strongly believe that continual improvement of infrastructure and support systems will provide the foundation for perpetual growth.

#### QUALITY

JFASPL quality team tests the TMT bars for the changes in the Micro Structure in the in-house Laboratory and ensures that it meets relevant IS specifications. Stringent testing through Universal Testing Machine (UTM) maintains the Yield Strength, Ultimate Tensile Strength, Elongation property, Charphy V Notch, Impact Values (J) at the required values JFASPL are committed for delivery of High Quality Goods and Services, in time, up to the entire satisfaction of our customer, society and to all associates. JFASPL strive hard and achieve Zero defects and Zero rework in each and every activity at all stages.

#### ANY SHAPE AT ANY TIME

JFASPL supply both straight as well as bent TMT bars. JFASPL manufactures TMT bars up to 40 feet length. The ends of the TMT bars are sheared precisely wherever neccessary. JFASPL use automated bending technology, to achieve absolute accuracy, in a controlled environment. Product Identification tag is provided with all manufacturing details and dimensions for easy identification and tracking.

#### TIMELY DELIVERY

When it comes to delivery, JFASPL treats delivery commitment seriously and ensures timely delivery of finished goods. Dispatch division is equipped with two in house weigh bridges and modern machineries for dispatch of finished goods. The third party logistic arrangements eliminates the delay in transportation of goods and there by the material reaches the customer safely ontime. The Dispatch department is equipped with skilled technicians and modern machineries to support round the clock dispatch schedules.

# Fe 500 / 550 / 500D



#### TMT BARS

Fe denotes ferrous material i.e. iron from which the reinforcement steel bars (TMT Bars) are produced. Fe 500, 550 and 500D stands for the base yield stress in N/mm2. Fe 500 evaluation TMT Bars were presented as a one stage up mechanical miracle over standard Fe 415 evalution item. The high corrosion resistance, excellent bend ability and great resistance on dynamic loading of Fe 500, Fe 550 and Fe 500D are used in RCC constructions of building, bridges and other concrete structures.

JFASPL manufacture TMT bars of various thickness from 8 MM to 25 MM. The Product data sheet is given below

#### PRODUCT DATA SHEET

Section	ISI Weight Maximum/ Meter	JPR Weight Maximum/ Meter	BIS Standard	ISI Bar Weight in Kg/40 Feet	JPR Bundle Weight in Kg	No. of Rods per Bundle
08 MM	0.367	0.422	0.395	4.477-5.148	44.770-51.480	10
10 MM	0.574	0.660	0.617	7.003-8.052	49.021-56.364	7
12 MM	0.844	0.932	0.888	10.297-11.370	51.485-56.850	5
16 MM	1.501	1.659	1.580	18.312-20.240	54.936-60.720	3
20 MM	2.396	2.544	2.470	29.231-31.037	58.462-62.074	2
25 MM	3.735	3.965	3.850	45.567-48.373	45.567-48.373	1

All products are manufactured according to ISI standard IS Code IS 1786. ISI Specification is given below. Test certificates will be provided upon customer request.

Our ISI License number for Billets CM/L - 6700025808 and for TMT is CM/L - 6607573

#### CHEMICAL COMPOSITION

Properties	Fe-500 (BIS)	Jeppiaar TMT	Fe-500D (BIS)	Jeppiaar TMT	Fe-550 (BIS)	Jeppiaar TMT
Carbon	0.30 (Max)	0.17-0.25	0.25 (Max)	0.17-0.23	0.30 (Max)	0.17-0.25
Phosphorous	0.055 (Max)	0.035-0.045	0.040 (Max)	0.035	0.50 (Max)	0.045
Sulphur	0.055 (Max)	0.035-0.045	0.040 (Max)	0.035	0.055 (Max)	0.050
Sulphur+ Phosphorous	0.105 (Max)	0.070-0.090	0.075 (Max)	0.065	0.100 (Max)	0.090



#### MECHANICAL PROPERTIES

Properties	Fe 500 (BIS)	Jeppiaar TMT	Fe 500D (BIS)	Jeppiaar TMT	Fe 500 (BIS)	Jeppiaar TMT
Yield Strenght (N/mm2)	500 Min	520-550	500 Min	520-550	550 Min	570-600
Tensile Strength	545 Min	630-660	565 Min	630-660	585Min	680-710
Elongation (%)	12.0 Min	17-22	16% Min	17-22	10% Min	16-20

# TRUSTED BY LEADING HOUSES



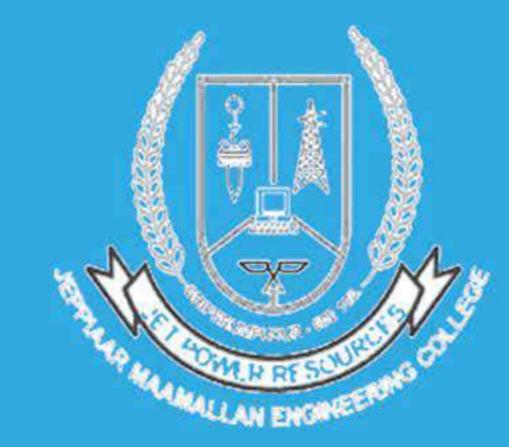




PANIMALAR INSTITUTE OF TECHNOLOGY









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