

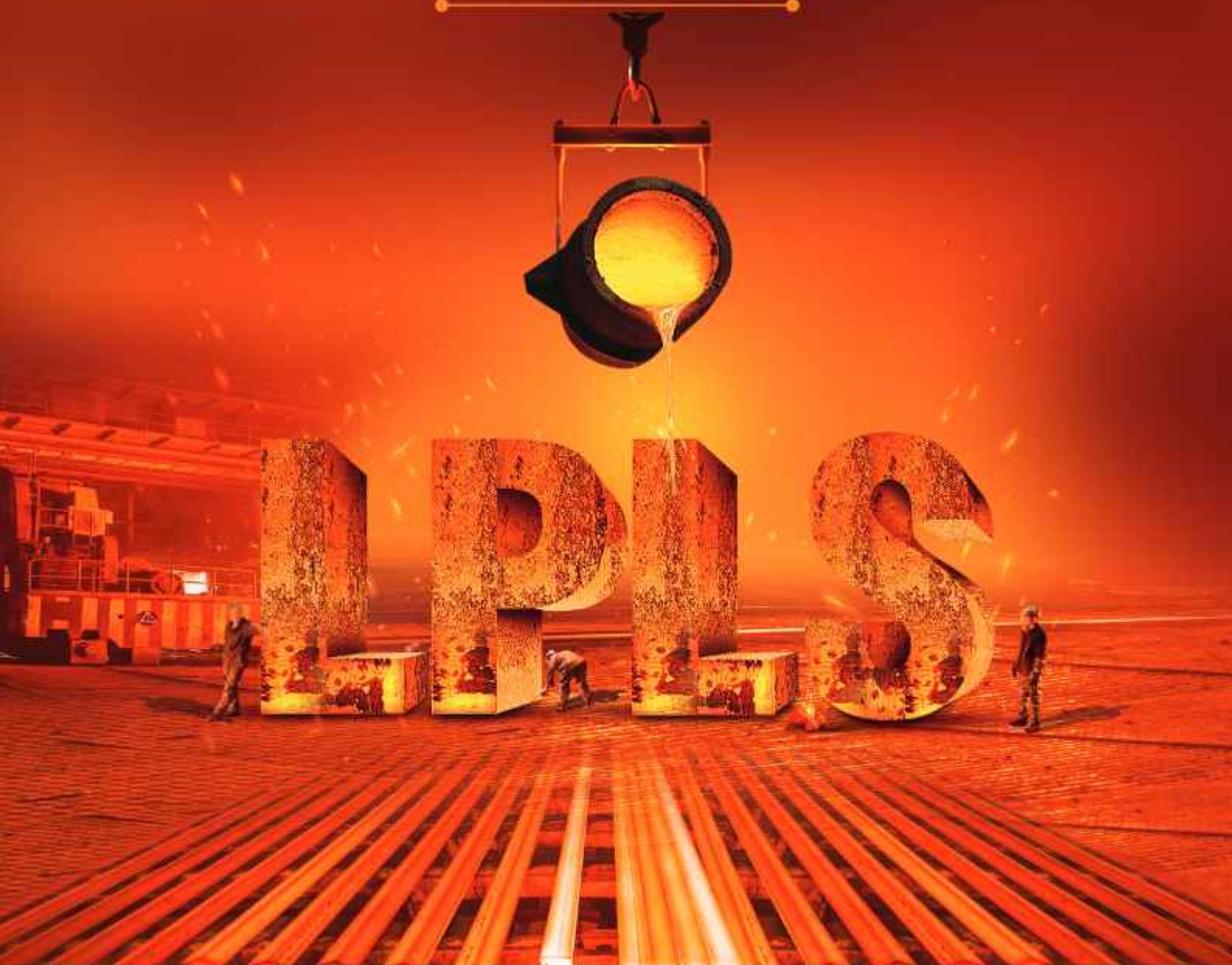


WE ARE PROUD TO INTRODUCE FIRST TIME  
IN SOUTH INDIA WITH

# HIGH PRECISION OF **LOW PHOSPHORUS LOW SULPHUR**



TMT BARS TECHNOLOGY



**AMMAN-TRY**  
GROUP

BILLETS | TMT BARS | PIPES | TUBES

PIONEER IN STEEL TECHNOLOGY

46 YEARS

For 46 years, AMMAN-TRY Group has contributed to the production of steel manufacturing in India by pioneering innovations, ensuring quality and excellence. AMMAN-TRY Group is the FIRST to produce TMT, CRS, Rings, 500D, and 550D bars and has become successful over the years.

India's physical infrastructure growth has been growing rapidly and steel demand has also increased substantially. AMMAN-TRY Group has expanded with state-of-the-art technologies for TMT bar production. AMMAN-TRY Group has commissioned South India's biggest Fully Automated Rolling Mill with No-Twist Block Mill Technology.

**Fully Automatic High Speed No-Twist Block Technology**



Quality is the Best Strategy of

**AMMAN-TRY GROUP'S SUCCESS**

As the growth of infrastructure increased, we also adopted the latest technology which converts molten metal into billets and directly into TMT bars with enhanced quality and services that customers expect us to deliver.



### STEEL MELTING SHOP

We have 30 Tonne and 25 Tonne of two Induction Furnaces which is equipped with the required quantity of chemical elements such as Sponge Iron, Ferro Silicon, Silico Manganese and Aluminium are added and melted to produce billets.



### HOT CHARGING METHOD

The uniform temperature in the billets gives consistent chemical properties for the production of TMT bars. We give highest attention to quality checking at every stage, so that AMMAN-TRY TMT bars are produced with consistency in process, uniformity in quality, high strength, flexibility and ductility throughout the bars



### STRAIGHT MILL



### HORIZONTAL - VERTICAL STAND

In our modernized new Rolling Mill, we have adopted both horizontal and vertical methods with advanced technology, wherein hot molten metal are converted into billets and then automatically rolled into TMT bars before its heat subsides.



### TMT QUENCHING

In Tempcore Technology, TMT bars are cooled down rapidly (Rapid Quenching) which results in the excellent formation of the microstructure.

### UNIQUE FEATURES OF 550D

#### LOW PHOSPHORUS LOW SULPHUR (LPLS)

To ensure more protection, high strength, flexibility and ductility, our 550D TMT bars have at least 10- 15% more yield strengths than others. Our 550D TMT bars have low levels of Phosphorus and Sulphur for increased strength and ductility across the length of the bar.

#### 15-20% STEEL SAVING

If the strengths and ductility of the TMT bars are of higher quality, there are methods to reduce the area of bars used in concrete for different types of building construction. With the help of experienced civil engineers and architects, using 550D TMT bars would surely result in effective steel savings of upto 15-20% as compared to earlier Fe500 grade TMT bars.



### 100 Tonne UTM

The strength of the bars are checked and confirmed using a 100 Tonne UTM Machine (Digital & Analog).



### AUTOMATIC COOLING BED

In the automatic cooling bed, bars are kept in natural air circulation without rubbing against each other.

This results in the strong formation of the microstructure which gives more strength and flexibility to the bars.

### MORE MARTENSITE STRUCTURE

In 550D TMT bars, one of the three microstructure layers is the martensite structure which is 30-40% more or uniform in its area. This results in the uniform strength throughout the TMT bars.



### SPECTROMETER

Our advanced spectrometer will accurately and rapidly test all chemical elements of the billets.

## SATISFACTION OF OUR CUSTOMERS

While the needs of infrastructure sectors are dynamic, we also introduced these advanced technologies to satisfy our customers and to produce zero-defect products.

### Customers Expectations

- Uniform Strength, Flexibility and Ductility in TMT bars
- Smooth Appearance of TMT bars
- Reasonable Price
- We aim to fulfill all of the above expectations of our customers.

### LOW PHOSPHORUS LOW SULPHUR ( LPLS )

According to the experts, Sulphur and Phosphorus are the two chemicals, that are considered the damaging of the construction which uses more steel consumption to ensure the long life of the construction. The Sulphur and Phosphorus chemicals cause the bars to break easily and reduce the flexibility of the bars which makes the life of the building questionable over the years. To ensure strong protection with sustainability of long life for your buildings, AMMAN-TRY TMT bars are produced in 550D grade bars with LPLS precision technologies.



### MICROSTRUCTURE FORMATION

Metallurgical Microscopes are used to check the uniformity, and correct percentage of formation of the three Microstructure layers to ensure that produced steels are as per scientific norms and standards to which AMMAN-TRY Group gives the highest importance.

## CHEMICAL PROPERTIES

Properties	IS 1786:2008 Fe 550 D	AMMAN-TRY Fe-550 "D"
Carbon(%)	0.25 (Max)	0.23 (Max.)
Sulphur (S)(%)	0.040 (Max)	0.035 (Max.)
Phosphorus (P)(%)	0.040 (Max)	0.035 (Max.)
S + P	0.075 (Max.)	0.070 (Max.)
Carbon Equivalent (%)	0.61 (Max.)	0.45 (Max.)

## MECHANICAL PROPERTIES

Properties	IS 1786:2008 Fe 550 D	AMMAN-TRY Fe-550 "D"
Yield Strength (N/mm <sup>2</sup> )	550(Min.)	550 – 590
Tensile Strength (N/mm <sup>2</sup> )	600(Min.)	660 – 700
Elongation (%)	14.5(Min.)	18 (Min.)
Total Elongation (%)	5	7 (Min.)
T.S / Y.S Ratio (Min)	1.08 (Min.)	1.18 (Min.)
Bend Test (Mandrel size) (upto and including 20mm)	4D	4D
Bend Test (Mandrel size)(over 20mm)	5D	5D

## SECTION WEIGHT

Weight per rod (kg/40ft)

Section	Minimum	Normal	Maximum	No.of bars in bundle
6 mm	2.513	2.708	2.904	20
8 mm	4.477	4.819	5.161	10
10 mm	7.003	7.527	8.052	7
12 mm	10.285	10.834	11.370	5
16 mm	18.300	19.264	20.228	3
20 mm	29.195	30.097	31.000	2
25 mm	45.616	47.031	48.446	1
32 mm	74.700	77.000	79.300	1

Note: AMMAN-TRY Bars are 40 feet in length (12.2 Meters in Length)



# AMMAN-TRY

GROUP

BILLETS | TMT BARS | PIPES | TUBES

## AMMAN-TRY SPONGE AND POWER (P) LTD

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