

AF STAR STAINLESS STEEL REBARS

AF STAR TMT GAA SS

SUPERIOR STRUCTURAL PERFORMANCE

AF STAR TMT 600 SS

ABOUT MS AGARWAL FOUNDRIES

For decades, MS Agarwal Foundries (MSAF) has been consistently pioneering the production of high-quality steel products that serve diverse customer needs. MSAF has built a distinct reputation for adopting benchmark, research-driven manufacturing practices, well-entrenched organizational values that ensure ideal practices, a purpose-driven performance and penchant to constantly evolve and excel. All these have transformed MSAF into a leading steel manufacturing company in the country that serves a multitude of business streams and organizations, from both public and private sectors

Founded in 2005 and headquartered in Hyderabad, MSAF continuously added strength to its efforts, and wings to its vision. Today, it operates state-of-the-art integrated steel plants at to strategic location, one at Medak, Telangana state, near Hyderabad, while the second plant is located in Naidupeta, Nellore district in the state of Andhra Pradesh. Together, the plants manufacture virgin steel under the brand names, AF STAR & MS Life.

MSAF also operates a sophisticated material testing laboratory that ensures and certifies the quality of the products. It operates a DRI unit, Maruti Ispat & Energy Pvt. Ltd., in Mantralayam in Kurnool district, Andhra Pradesh, and an SMS unit with continuous billet casting, along with its sophisticated rolling mill.

MSAF is driven by a legion of enthusiastic and efficient performers whose commitment and efficiency power production, customer servicing, and business development.



PURPOSE



We exist to deliver Value to our Stakeholders in Building a Safe & Strong Nation and make the World a better place.

VISION



We shall be outstanding and trustworthy with our steel product quality and services in the market we serve.

MISSION



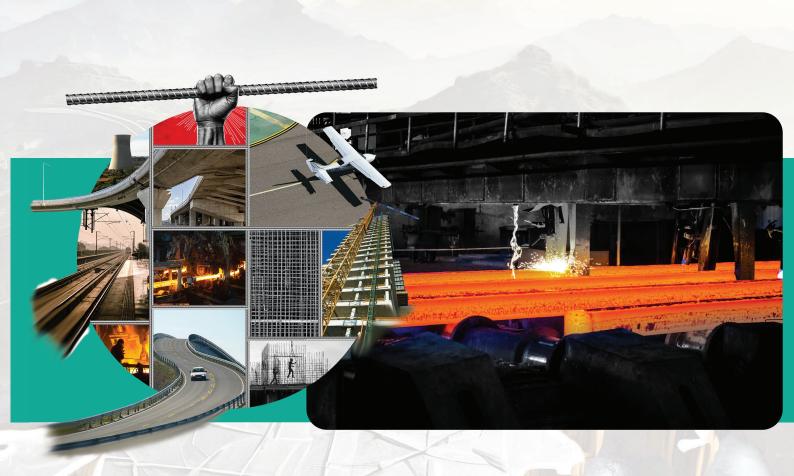
We shall achieve 1.2 MTPA by 2026-27.

VALUES



Customer Centricity Result Oriented Entrepreneurship Empathy Integrity Humility Sustainability





ABOUT AF STAR

For over decades, AF STAR, the premium-class steel products brand, has been consistently pioneering the production of high-quality steel products, serving diverse customer needs.

Produced out of best manufacturing practices, AF STAR enjoys a distinct reputation of guaranteeing durability, robustness, and diversity across the product range. These come together successfully to serve more than 20000 customers, through partnering in steel supply for more than 100 projects, across a multitude of business and construction streams, from major corporations to established dealers.

AF STAR is a premium-class steel products brand coming from Hyderabad-based integrated steel producer MS Agarwal Foundries (MSAF). Through flagship AF STAR, MSAF produces an exhaustive range, from TMT Re bars, rounds, and cut-and-bend products.



AF STAR SS TMT REBARS - SNAPSHOT

High-grade Stainless Steel Rebars ensuring superior yield, tensile strengths and perfection in appearance

Excellent durability, fire resistance and structural performance

Exceptional corrosion resistance in harsh marine environments, resisting chlorides and pitting corrosion Extended service life and reduced life cycle costs

Minimal maintenance costs and therefore less disruption of service for refurbishment or Replacement



ADVANTAGES

PRODUCTS



SS 500 SS 550 SS 600 Excellent durability, fire resistance and structural performance

Exceptional corrosion resistance in harsh marine environments, resisting chlorides and pitting corrosion

Extended service life and reduced life cycle costs

Minimal maintenance costs and therefore less disruption of service for refurbishment or replacement

Easy to cut and bend, good weldability

AS PER BIS STANDARDS

CHEMISTRY

AF Star Stainless Steel TMT are made with proper control over carbon, phosphorous, sulphur and other alloying elements.

ROLLING

AF Star Stainless Steel is rolled with close controls and proper temperature monitoring so as to give prominent rib pattern and surface finish

THERMO MECHANICAL

TREATMENT

The Thermax quenching process is adopted after rolling with proper control on water pressure, Nozzle angle and rate of water flow. This helps in achieving the desired properties in AF STAR TMT Rebars





MECHANICAL PROPERTIES OF SS 410 L

| Grade Types | 0.2 percent proof stress, Min, N/mm² | Tensile strength Mpa |
|-------------|--------------------------------------|----------------------|
| SS 500 | 500 | 565 |
| SS 550 | 550 | 600 |
| SS 600 | 600 | 660 |

CHEMICAL COMPOSITION OF SS 410 L

| Chemical | С | Ni | Mn | Si | Р | S | Cu | Cr | N |
|----------|------|------|-----|-----|-------|-------|----|-------|---|
| Min% | - | 0.0 | ı | ı | ı | ı | ı | 11 | ı |
| Max% | 0.03 | 0.60 | 1.0 | 1.0 | 0.040 | 0.030 | - | 13.50 | - |

UNIT WEIGHT OF STEEL BARS

| Nominal Diameter (mm) | Nominal Mass/M (kg/m) | Nominal Sectional Area (mm²) |
|--------------------------|--------------------------|---------------------------------|
| 8 | 0.389 | 50.3 |
| 10 | 0.608 | 78.5 |
| 12 | 0.876 | 113.1 |
| 16 | 1.555 | 201.1 |
| 20 | 2.430 | 314.2 |
| 25 | 3.797 | 490.9 |
| 32 | 6.222 | 804.2 |

CHEMICAL COMPOSITION (CAST ANALYSIS), PERCENT BY MASS (CLAUSE 4.3.1)

As per: BIS - 16651:2017

| Steel Designation Number | International Standard Designation | C Max | Si Max | Mn Max | S Max | Cr Min/Max | Ni Min/Max | Mo Min/Max | P Max | Cu Min/Max | N Min/Max |
|--------------------------------|--|----------|-----------|-----------|----------|---------------|---------------|---------------|----------|---------------|--------------|
| G Ferritic | 410L | 0.03 | 1.0 | 1.0 | 0.030 | 11.00/13.50 | 0.0/0.60 | ı | 0.040 | 1 | - |

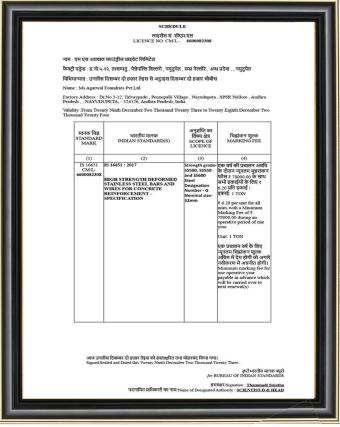
NABL AND ISO CERTIFICATIONS



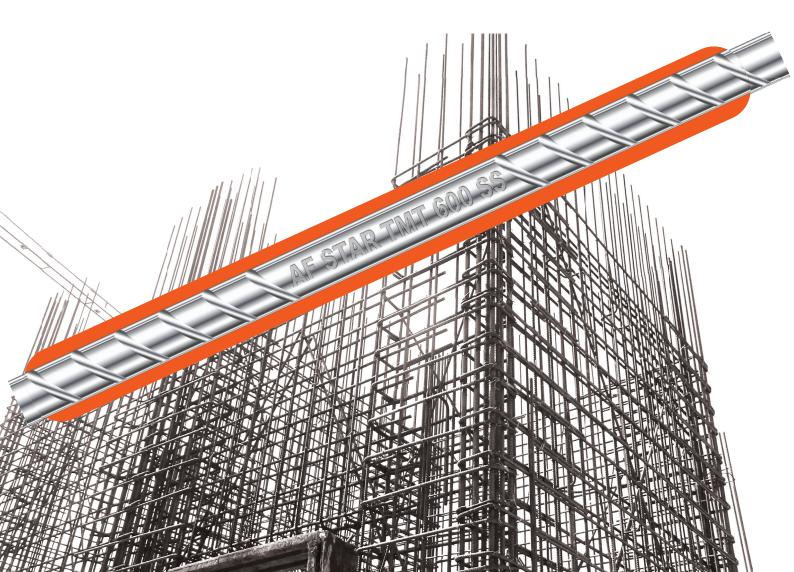


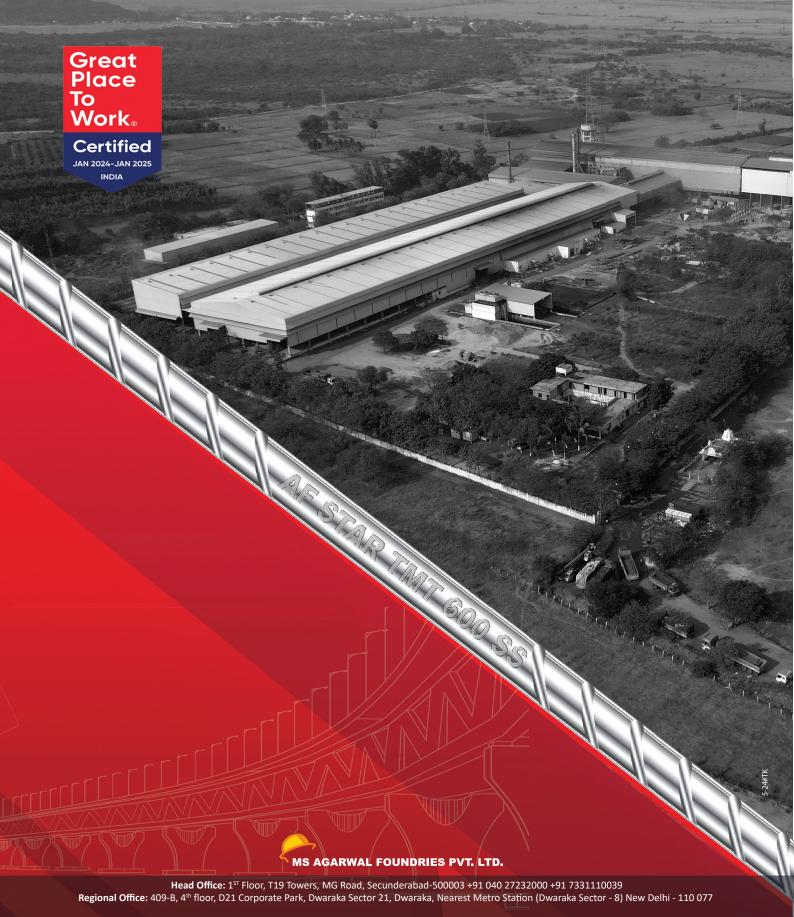






BIS CERTIFICATE **16651: 2017**





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