



AF STAR
steel for a solid future

ELECTRIC ARC FURNACE (EAF)



**Embarking on the
Arc of manufacturing
Excellence**





MS AGARWAL FOUNDRIES PVT. LTD.

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
Integrity
Empathy
Humility
Sustainability



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 main steel producer 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.



ABOUT AF STAR

For over years, AF STAR has been consistently pioneering the production of high quality steel products that serve diverse customer needs across the country. Embracing best manufacturing practices and driven by innovative and sustainable solutions, AF STAR has built a distinct reputation of guaranteeing durability, robustness, and diversity across the product range.

AF STAR is a premium class steel products brand coming from Hyderabad based steel producing giant, MS Agarwal Foundries (MSAF). With an enviable track record of producing top notch steel products, MSAF is trusted by top government bodies and institutions, and construction and infrastructure companies.

AF STAR features an exhaustive range, from TMT bars to billets, rounds to cut and bend. AF STAR conforms to international standards in durability and quality, offering corrosion resistance, and cost efficiency through less wastage.



ELECTRIC ARC FURNACE (EAF)



ROUTE TO STEELMAKING

Our tryst with technology and penchant for innovation invariably ensure superior manufacturing standards at every stage. We have thus adopted Electric Arc Furnace method for steelmaking and enhancing the TMT process. We thus ensure least carbon emission, easier scaling up, space optimization and, attaining flexibility in scaling up production.

WHAT IS EAF

An Electric Arc Furnace (EAF) is a furnace that heats the material at a stipulated temperature, through electric arc. The charged material is directly exposed to the electric arc and the furnace current flows through the charged material. EAF is one of the most advanced processes that offers super efficiency and flexibility in achieving the desired chemistry. It is the most robust means to melt and refine the material at a foster speed.



THE ADVANCED BOOST TO TMT PROCESS



WHY

To enhance efficiency levels and optimise production capabilities to achieve high quality finished product To give a new dimension to desired chemistry achievement as part of our steelmaking and TMT process

WHAT

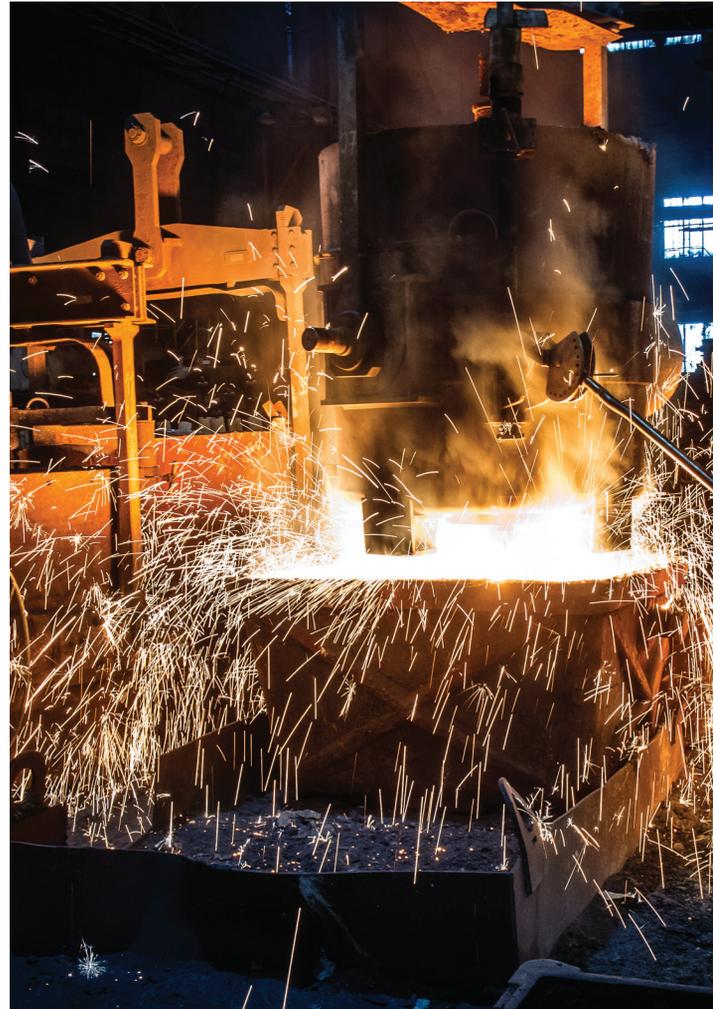
EAF achieves 25 tonnes per hour capacity and is specifically used for refining purpose where metal reaches it after going through the traditional induction furnace.

HOW

Achieving Desired Chemistry and Composition

Electric arc furnaces are most effective in removing phosphorus, sulphur, carbon, manganese, nitrogen, and silicon from the steels. This is most significant when compared to the traditional induction furnace, where chemistry cannot be altered at the desired level.

With Fe 550 D becoming the most preferred and patronised product for infra and construction sectors, EAF is well suited to regulate the levels of certain metals.



EAF-ADVANTAGES



Operational Advantages

- Melt and refine the material at a super speed
- Achieve desired chemistry that ensures deformation, quality, durability, and corrosion resistance features of the final product
- Reduce carbon emission, keep a tab on phosphorous and sulphur levels in desired manner
- The primary benefit accrued from EAF deployment is the large reduction in specific energy (energy per unit weight) required to produce the steel.



Great
Place
To
Work®

Certified

JAN 2024 - JAN 2025
INDIA

AF STAR

TMT

550D



MS AGARWAL FOUNDRIES PVT. LTD.

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Works:

Unit - 1: Survey No. 169, Near Rangaipalle, Chetla Gowraram Post, Manoharabad Mandal, Medak Dist. Telangana - 502 336

Unit - 2: Door No. 5-12, Pennepalli Village, Pellakuru Mandal, Naidupeta, Tirupati Dist. Andhra Pradesh - 524 126

Regional Offices:

Delhi :
409-B, 4th Floor,
D21 Corporate Park,
Dwaraka Sector 21,
Dwaraka,
Nearest Metro Station
(Dwaraka Sector - 8)
New Delhi - 110 077

Mumbai :
Room No. 1.1,
91 Springboard Business
Hub Private Limited,
Godrej and Boyce,
Gate No 2, LBS Marg,
Vikhroli West,
Mumbai - 400 079

Chennai :
No. 6,
7th Floor,
Awfis Space Solutions P Ltd,
Arihanth Technopolis,
Perungudi,
Chennai - 600 096

Bengaluru :
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91 Springboard,
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