

**THE EARTHQUAKE RESISTANT
PRIMARY STEEL**



MANUFACTURING PROCESS



MS LIFE 600+ TMT REBAR PRODUCTION

MS LIFE 600+ TMT Rebar Factory at Toopran, Medchal uses world class equipment supplied from Germany. This factory produces high strength rebars conforming to BIS 1786:2008 Fe 500, Fe 550 & 600 grade, EQR & CRS quality. TMT production at Toopran uses the superior and clean steel billets produced at company's Mantralayam Plant through the BF + DRI > EAF > LRF > Concast route with highly controlled steel chemistry & very low levels of sulphur and phosphorus (less than 0.035%). MSAF Toopran factory uses superior HYQST (High Yield Quenching & Self Tempering) TMT technology for production of high grade TMT rebars. HYQST technology produces rebars with high strength, high ductility, high bendability and high weldability surpassing the requirements of Fe 500, Fe 550 & 600 CRS rebars.

The factory uses Zero pollution ESP Bag filter technology and omits zero pollution. The Company also planted trees to encourage green pollution free environment and safeguard the lives of surrounding people.

PRODUCT CHARACTERISTICS OF MS LIFE 600+ TMT-EQR REBARS

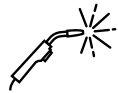
ATTRIBUTES	ADVANTAGES
High UTS/YS Ratio	Higher energy absorption capacity with increased elastic zone
High total elongation	Enhances absorption capacity of material plasticity
High uniform elongation	Enhances better bending property (Ductility)
Low variation in yield stress	Avoids localized shear failures
Higher tensile strength	Enhances maximum load bearing capacity
Uniform Ferrite - Pearlite core / composite martensite rim	Enhances better fire resistance capability with Uniform martensite rim.
Higher fatigue resistance	Capability to withstand higher dynamic/ seismic loads
Superior rib structure	Provides higher bonding strength between the bar and concrete
Better weld-ability	Produces good strength of weld joints, can eliminate manual binding at site



FEATURES OF MS LIFE 600+ TMT-EQR REBARS



Bond Strength



Weldability



Bendability



Fire Resistance



Corrosion Resistance

Ready made sets



OBSERVED RUNNING MASS/METER

Specification	Weight (Kg/Mtr)	BIS Range Tolerance (Kg\Mtr)		MS LIFE 600+ Range Tolerance (Kg\Mtr)	
		(Min)	(Max)	(Min)	(Max)
8	0.395	0.367	0.423	0.367	0.395
10	0.617	0.574	0.660	0.574	0.617
12	0.888	0.844	0.932	0.844	0.888
16	1.580	1.500	1.659	1.500	1.580
20	2.470	2.396	2.544	2.396	2.470
25	3.850	3.735	4.975	3.735	3.850
28	4.830	4.685	4.975	4.685	4.830
32	6.310	6.120	6.499	6.120	6.310

Mechanical Properties of MS LIFE 600+ TMT - EQR REBARS

Parameter	IS : 1786-2008 Fe 600	MS LIFE 600+
Yield Strength (YS), (Minimum)	600	600
Yield Strength (YS), Mpa (Maximum)	-	-
Ultimate Tensile Strenght (UTS), Mpa (Minimum)	660	708
UTS/YS ratio (Minimum)	1.1	1.18
Total Elongation (Minimum) (GL = 5.65 AO) A	10.0	18.0
Elongation at Maximum force (%)	10.3	18.4

OUR BUSINESS ASSOCIATES



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**MS AGARWAL
FOUNDRIES PVT. LTD**

Corporate Office : T19 Towers, 13th Floor, Secunderabad,
Telangana, 500 003.

E: ms@msagarwal.com Web: www.mslife.com

