



THE CHOICE OF A LIFE TIME

KAIRALI TMT
STEEL BARS



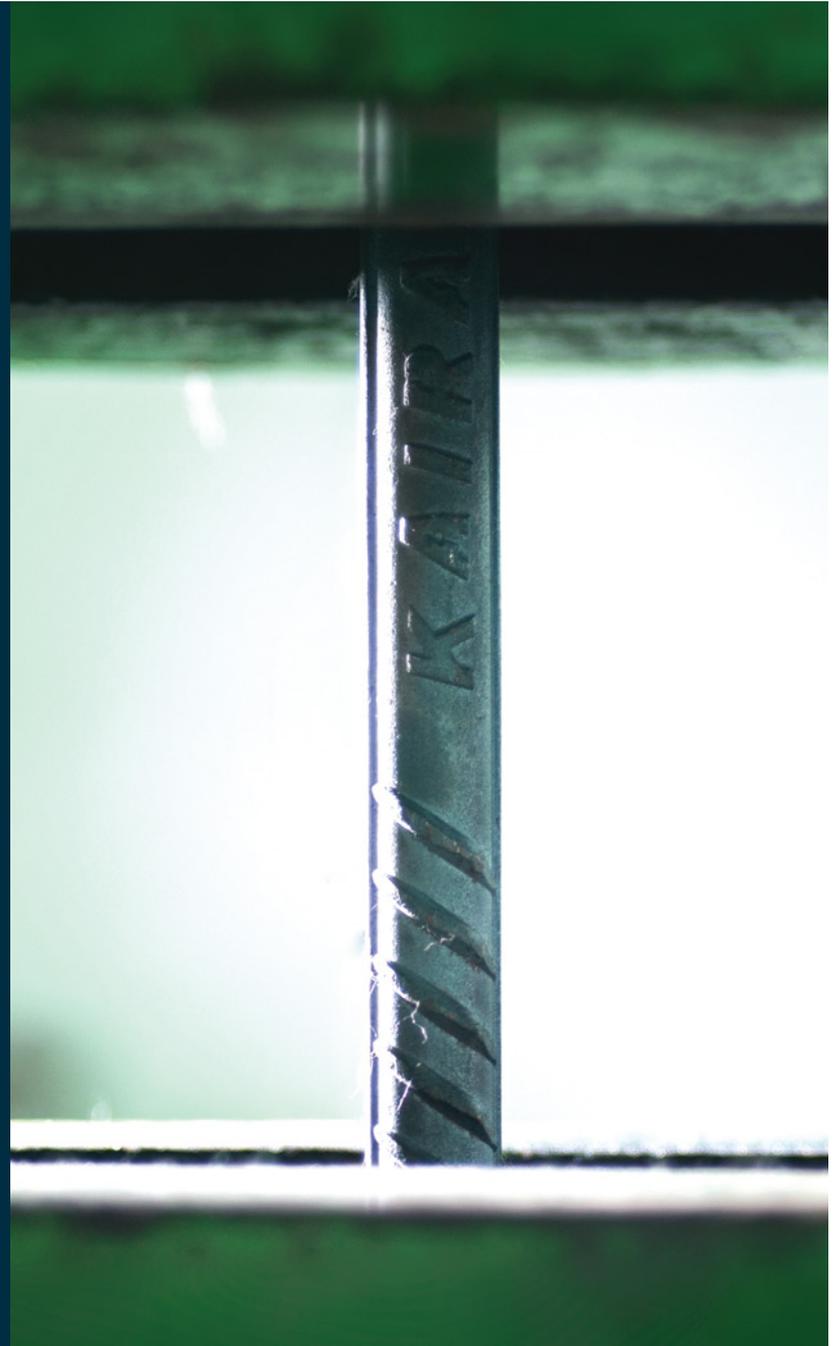
Who we are

Kairali TMT Steel Bars is the flagship division of Kairali Ventures. Our legacy of over 125 years in the Steel Industry has secured us a top most spot as a leading producer of quality TMT Steel Bars in South India.

Led by Mr. K Abdul Gafoor, Kairali Steels & Alloys Pvt. Ltd. is today a ISO 9001 : 2008 company and equipped with advanced infrastructure and machinery. As a result, our factories in Palaghat and Salem are capable to deliver biggest of requirement in least required time period without compromising on quality at any stage.

Owing to our resources, SAIL (Steel Authority of India) has chosen Kairali TMT to be their only conversion agent in Kerala.

Use of EQR German Technology while producing TMT Steel Bars ensures that everything you build using Kairali TMT is strong and safe.





Why us ?

Our products meet International Standards and our strong distribution network ensures easy availability in any part of South India.



Kairali TMT Steel Bars use the EQR German Technology which has the capability to absorb energy waves released during Earthquakes. This technology helps in reducing or negating the damage caused. Structures such as dams, bridges or high-rise buildings are prone to more damage in a situation of earthquake and Kairali TMT Steel Bars' unique combination of strength and ductility ensures safety from such seismic impacts.



Cutting Edge Manufacturing Process

Produced under the close supervision of our frontline metallurgists and engineers in our fully automated rolling mills, Kairali TMT Steel Bars are produced using superior quality billets.

True Pricing Policy

Considering the trust our customers behold on us, we ensure every steel bar produced at our factory doesn't compromise on quality. Additionally we ensure true pricing policy when compared to the quality and price offered by other producers

Kairali TMT Steel Bars are not just superior in quality but also offer greater savings

Grade of Concrete	Grade of Steel	Qty in Kgs	% Saving in wt, over normal 415
15	Normal 415	112	
15	Kairali fe500	102	13
15	Kairali 500d	95	17.15



Features of our Rolling Mill

- ▶ The only fully automated rolling mill in Kerala
- ▶ Well programmed automatic manufacturing technology to enhance the operational safety
- ▶ Reduction in wastage of materials makes it an environment friendly mill
- ▶ Automated cooling bed for obtaining better product finish, perfect straightness and consistent heat treatment and cooling



Mission

To manufacture and deliver products of superior quality, thereby reducing risks and increasing safety.

Vision

To offer products of enduring value and services of benchmark standards that makes us a choice of a lifetime for our customers.



Product Range

Kairali TMT Steel Bars are available in sizes ranging from 6mm to 32mm so that you get to choose the best product for your need.

Weight Tolerance is 1786:2008

Size MM	BIS Standard Kg/Mtr.			Kairali Values Kg/Mtr.
	MIN	AVG	MAX	
8	0.367	0.395	0.423	0.375 to 0.400
10	0.574	0.617	0.660	0.580 to 0.620
12	0.844	0.888	0.932	0.850 to 0.910
16	1.501	1.580	1.659	1.510 to 1.600
20	2.396	2.470	2.544	2.400 to 2.510
25	3.734	3.856	3.964	3.750 to 3.910
28	4.685	4.830	4.975	4.700 to 4.900
32	6.121	6.310	6.499	6.184 to 6.436

Mechanical Properties

Parameter	BIS Standard FE 500	Kairali FE 500	BIS Standard FE 500D	Kairali FE 500D
Yield strength, N/mm ² , Min	500	510	500	515
Ultimate Tensile Strength, N/mm ² , Min	545	585	565	595
Elongation, %, Min	12	16	16	18
UTS/YS Ratio, Min	1.09	1.14	1.13	1.15

Chemical Properties

Constituent	BIS Standard FE 500	Kairali FE 500	BIS Standard FE 500D	Kairali FE 500D
Carbon	0.30	0.27	0.25	0.23
Sulphur	0.055	0.045	0.040	0.035
Phosphorus	0.055	0.045	0.040	0.035
Manganese	>= 0.60 to 1.00	>= 0.70	>= 0.60 to 1.00	>= 0.75
Sulphur+ Phosphors	<= 0.105	<= 0.09	<= 0.075	<= 0.070

Uncompromising Quality

High tensile to yield strength ratios

Owing to our international production standards, Kairali TMT Steel Bars have an unique blend of strength and ductility. The tensile to yield strength ratios are greater than 1.12. In normal bars, where the increase in the yield strength of the bars is accompanied by loss of percent elongation, Kairali TMT is superior as the loss is negligible and elongation values are higher than specified.

Excellent Bendability and Workability

Tough outer layer and the ductile core of the Steel Bars result in Excellent Bendability.

Resistance to Ageing

Quality of the raw materials used and the perfect chemical combination helps Kairali TMT Steel Bars withstand the torments of nature.

Superior Corrosion Resistance

Presence of Martensitic Layer on the outer surface and formation of adherent scale film due to water quenching during rolling ensure better corrosion resistance properties of Kairali TMT Steel Bars.





Rib Pattern

Rib Pattern on the Kairali TMT Steel Bars surface provides quality binding with cement due to greater rib depth and closer rib spacing. Consistency in our rib pattern offers uniform strength with concrete for the complete structure.



..... Rib pattern

Kairali Tech-Fab

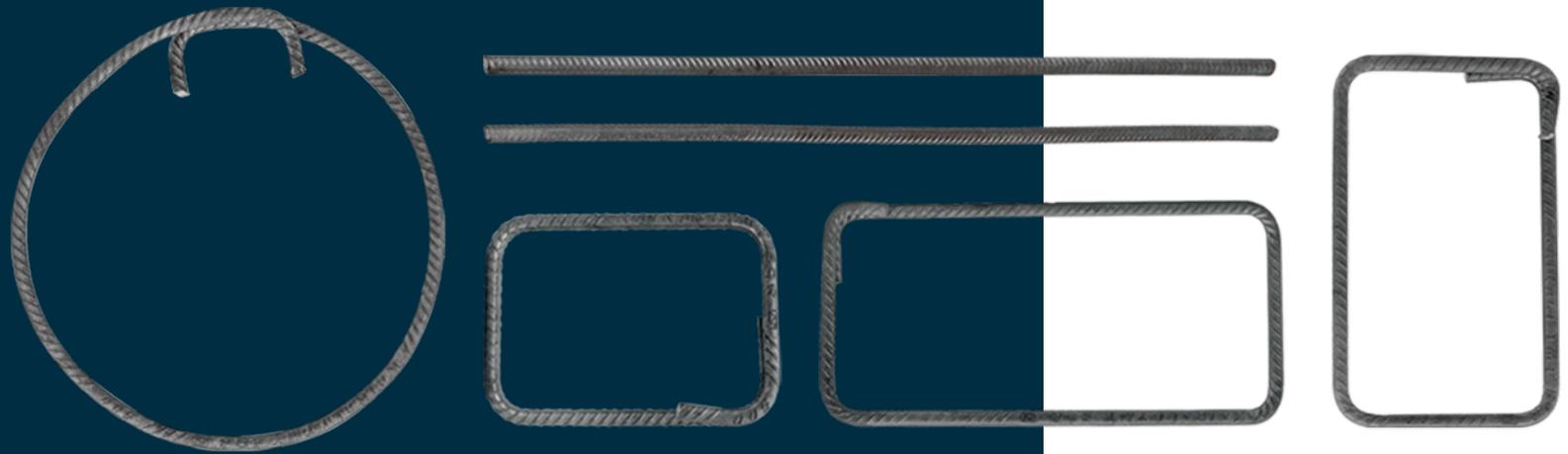
Kairali Tech-Fab is a unique offering from Kairali TMT Steel Bars. Kairali Tech-Fab provides TMT re-bar cut and bend service to offer customers with the option of customized TMT Shapes for concrete reinforcement.

At construction sites, cutting and bending of steel bars is done by unskilled labourers, which reduces efficiency and accuracy. This process also increases wastage as delivery of the re-bars takes place in straight form. The leftovers post cut and bend are usually left for scrap.

Through Kairali Tech-Fab, you can acquire customized lengths of the rebars and bend them as per your project requirement. We build common shapes from stirrups to complex helical shapes to suit your structures need.

Kairali Tech-Fab Advantage

- Reduction in wastage at site
- Saves labor cost
- Better time management
- Unmatched Quality



Kairali MS Wire

Kairali MS Wires is the second brand under the Kairali Ventures umbrella. MS Wires play an important role in providing tensile strength to the structures. High durability and its anti corrosive nature ensure excellent performance. Manufactured using 100% galvanised mild steel, Kairali MS Wires are uniform in strength and size throughout.

These wires are tested and certified by concerned organizations and with a vision to ensure every structure is built stronger and safer, Kairali Ventures decided to launch its own range of MS Wires.

Advantages of Kairali MS Wire

- High Tensile Strength
- Uniform Diameter/Size all over
- Manufactured using high quality raw material
- Corrosion Resistant



Quality Standards and Certifications

The management and staff of Kairali TMT Steel Bars is committed to achieve our Mission and Vision. We aim to achieve the goals that we envision by

- ▶ Identifying needs of customers and their requirement and supply commitments
- ▶ Ensuring superior quality of product at every stage of our production process
- ▶ Winning over customers confidence and loyalty, by providing quality product and service
- ▶ Committed workforce and regular programs to enhance their skill and knowledge
- ▶ Contribution towards the nation by producing of quality steel



Awards and Recognitions



Vyvasaya Ratna Award to Mr Kalliyath Abdul Gafoor in 2009 for excellence in business



KSIDC (Kerala State Industrial Development Co-operation) Award for Excellence in business for 3 years consecutively 2014-2015-2016



Reporter TV Business Reliability Awards 2015 - Manufacturer of Superior Quality TMT Steel Bars



Shaktan Thamburan Award For Excellence in Business 2015



Indo-Arab Confidertaion Council Excellence in Business

Product Packaging

Kairali TMT Steel Bars are supplied in a fixed length of 12 metres to ensure uniformity and reduction of wastage during fabrication.

Delivery at Site: Kairali TMT Steel Bars will be delivered by the authorized dealer at the work site of the customer, hence reducing freight charges.



A Robust Network across South India



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STEEL BARS

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