



**THE CHOICE OF A LIFE TIME**

**KAIRALI TMT**  
STEEL BARS



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

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

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

Our 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 imported quality scrap through furnace.

## TRUE PRICING POLICY

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

Considering the trust our customers have on us, we ensure any 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.

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

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

## VISION

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

## MISSION

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



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 ( MIN)	BIS Fe 500	Kairali Fe 500	BIS Fe 500 D	Kairali Fe 500 D	BIS Fe 550	Kairali Fe 550	BIS Fe 550 D	Kairali Fe 550 D	BIS Fe 600	Kairali Fe 600
Yield strength ( N/mm2)	500	510	500	515	550	560	550	565	600	610
Ultimate Tensile Strength (N/mm2)	545	585	565	595	585	600	600	610	660	670
Elongation ( % )	12	16	16	18	10	15	14.5	16	10	12

CHEMICAL PROPERTIES

Constituent	BIS Fe 500	Kairali Fe 500	BIS Fe 500 D	Kairali Fe 500 D	BIS Fe 550	Kairali Fe 550	BIS Fe 550 D	Kairali Fe 550 D	BIS Fe 600	Kairali Fe 600
Carbon	0.3	0.25	0.25	0.23	0.30	0.25	0.25	0.23	0.30	0.25
Sulphur	0.055	0.045	0.04	0.035	0.055	0.045	0.04	0.035	0.04	0.035
Phosphorus	0.055	0.045	0.04	0.035	0.05	0.04	0.04	0.035	0.04	0.035
Manganese	> = 0.60		> = 0.60		> = 0.60		> = 0.60		> = 0.60	
Sulphur+ Phosphors	0.105	0.09	0.075	0.07	0.1	0.08	0.075	0.07	0.075	0.07



# 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 isnegligible and elongation values are higher that specified.

## Superior Corrosion Resistance

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

## Resistance to Ageing

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

## Excellent Bendability and Workability

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

# KAIRALI TECH-FAB



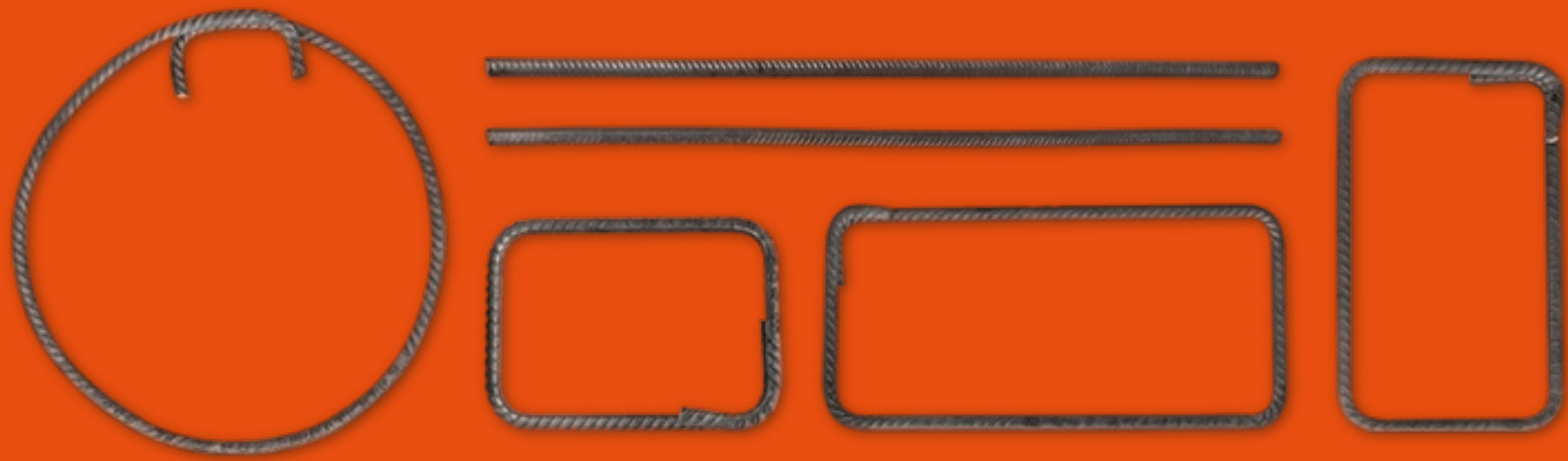
Kairali Tech-Fab is an unique offering from Kairali TMT Steel Bars. Kairali Tech-Fab provides TMT re-bar cut and bend service to offer customers with the option of customized TMT Shapes for concrete reinforcement.

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 is 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.

## 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.



## Kairali Tech-Fab Advantage



Reduction in wastage at site



Better time management



Saves labor cost



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. 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 customer’s 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

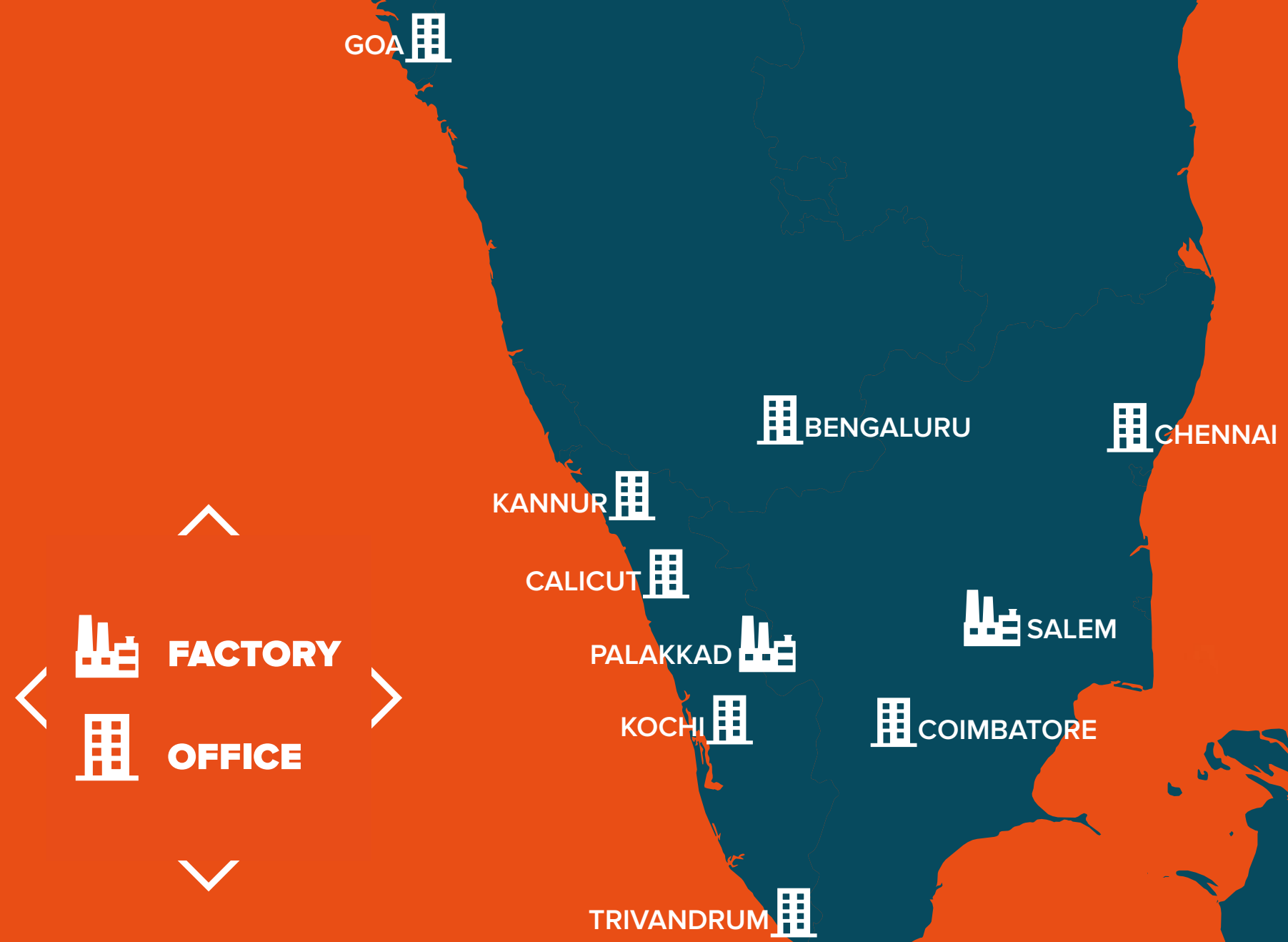




## PRODUCT PACKAGING

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

## A ROBUST NETWORK ACROSS SOUTH INDIA



## DELIVERY AT SITE

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

### CORPORATE HEAD OFFICE

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