

**MICKY
POWER⁺**
TMT

KOLKATA · SINCE 1972

THE FOUNDATION OF A STRONGER INDIA.

MICKY POWER+ TMT 600 SD

MICKY METALS LTD.

CORPORATE & PRODUCT BROCHURE

THE COMPANY

FIFTY YEARS IN STEEL.

MICKY Metals began its journey in 1972 with Beekay Bros, rolling steel in Kolkata. In 1995 the family set up MICKY Metals at Suri, Birbhum: an automated TMT plant built around one product done properly. Today the plant has a capacity of 1 lakh tonnes a year, rolled to a single grade, 600 SD, and sold as MICKY POWER+ TMT across eastern India.

Three generations of the same family, one standard for every bar that leaves the gate.

1972

in the steel business

1 lakh

tonnes a year capacity

600 SD

one grade, every bar



MICKY METALS, SURI



THE BAR

MICKY POWER+ TMT

Grade 600 SD · Super Ductile · IS 1786:2008



SUPER DUCTILE

Bends under overload instead of snapping. 21% elongation against 16% for Fe 500D.

EARTHQUAKE RESISTANT

Designed for seismic zones III to V. A UTS-to-yield ratio built for cyclic loading.

FIRE & CORROSION RESISTANT

CRS chemistry with sulphur plus phosphorus held to 0.07%, for coastal and riverside sites.

PRECISION RIBS

The POWER+ pattern, two curved ribs and a cross of lenses, rolled to a tight tolerance for concrete grip.

INSIDE

HARD OUTSIDE. DUCTILE INSIDE.

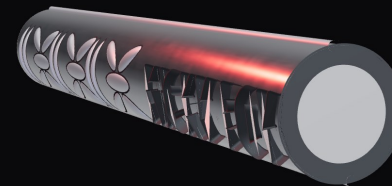
Thermo-mechanical treatment quenches the surface of the bar into a hardened rim of tempered martensite, while the core self-temperers into ductile ferrite and pearlite. The rim carries the strength. The core lets the bar bend under load and come back, which is what protects a structure in an earthquake.

Hardened rim

Quenched surface, tempered martensite

Ductile core

Self-tempered ferrite and pearlite



CROSS-SECTION

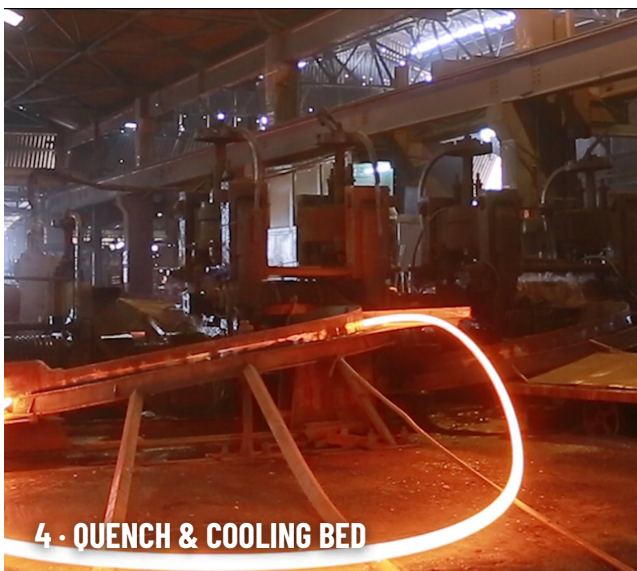


BEND TEST: 180°, NO CRACK

MADE AT SURI

FROM BILLET TO BUNDLE.

100% tested billets, one hot rolling mill, quenching, self-tempering, and a test on every heat before a bundle is tagged.



TECHNICAL DATA

TO IS 1786:2008.

Mechanical properties

Property	Fe 500	Fe 500D	Fe 550	POWER+ 600 SD
Yield strength (N/mm ²)	500	500	550	550
UTS (N/mm ²)	545	565	585	699
Elongation (%)	12	16	10	21

Chemical composition, maximum %

Element	Fe 500	Fe 500D	Fe 600	POWER+ 600 SD
Carbon	0.30	0.25	0.30	0.25
Sulphur	0.055	0.04	0.04	0.035
Phosphorus	0.055	0.04	0.04	0.035
S + P	0.105	0.075	0.075	0.07

Sizes, section weight and BIS tolerance

Nominal size (mm)	8	10	12	16	20	25	28	32
Nominal weight (kg/m)	0.395	0.617	0.888	1.58	2.47	3.85	4.83	6.31
BIS range (kg/m)	0.367–0.423	0.574–0.660	0.844–0.932	1.501–1.659	2.396–2.544	3.734–3.966	4.685–4.975	6.121–6.499
POWER+ average weight (kg/m)	0.375	0.58	0.85	1.51	2.41	3.75	4.73	6.21
Pieces per bundle	16	10	7	4	2	2	—	1

Test certificates for a specific heat are supplied with every consignment on request. Minimum order 25 MT · Delivery usually 3 to 5 days · Payment 100% advance by RTGS.

QUALITY

CERTIFIED. TESTED. TRUSTED.

BIS

BIS certified

IS 1786:2008 · Licence CM/L-5103338

ISO

ISO 9001

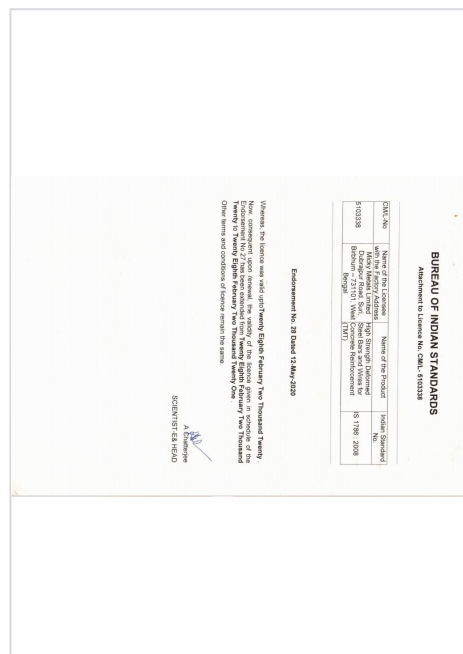
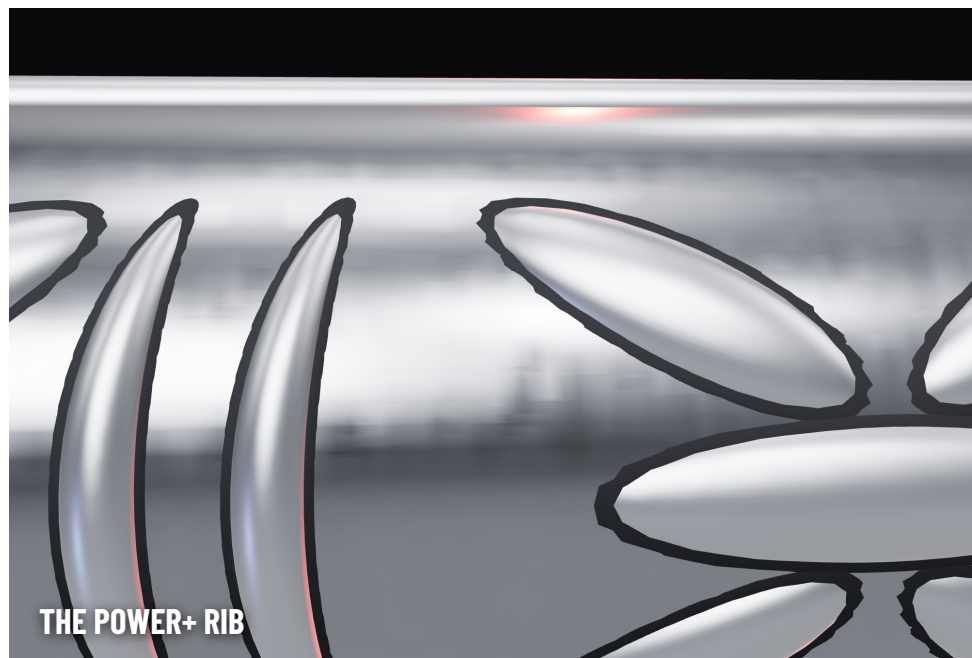
Quality management system, Suri plant

LAB

Independently tested

Jadavpur University test reports on request

Supplied to public-sector and infrastructure buyers across eastern India, and to distributors in West Bengal, Odisha, Bihar, Jharkhand and Karnataka.



TALK TO US

BUILD WITH POWER+.

PRICE ENQUIRY

Rates for your district and quantity, by phone or WhatsApp.

DISTRIBUTORSHIP

District-level partners across eastern India.

DEALERSHIP

Retail counters and hardware stores.



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