



SURSHAKTI

TMT BARS

S. K. SAMANTA & CO. (P) LTD.

ROLLING MILL DIVISION / Bilaspur, Chhattisgarh State
Registered Office : Kolkata
(An ISO 9001:2008 Company)

FOUNDATION OF EXCELLENCE

M/s. S. K. Samanta & Co. Pvt. Ltd. is an infrastructural based company and handles turnkey EPC Projects. This company diversified into "STEEL-SECTOR" and set up an automated TMT Bar Mill at Bilaspur, Chhattisgarh State.

The land area is 31.75 acres and is located in the Industrial Growth Centre, Silpahari, Bilaspur.

The capacity of this State-of-Art technology TMT Bar Mill is 150,000MT per annum and the sizes are 8mm to 32mm.



ENABLING SUPERIOR CITIES

S. K. Samanta & Co. Pvt. Ltd. is more than 50 years old and has been a pioneer in the infrastructural sector. The core competency of this group has been in setting up Material Handling and Bulk Handling Plant, Water Treatment Plant, Cross Country Pipeline, Public buildings etc.

The group is having registered and Head Office at Kolkata. The company is managed by professional engineers having wide experience of 30 to 40 years in various industries. The company is having its own design engineering wing apart from other disciplines like Project Management, Project Coordination, Procurement, Contracts, Finance, HR & Admn. etc.

SALIENT FEATURES OF THE PLANT



31.75 ACRES provided by Chhattisgarh Industrial Development Corporation.



500MT/DAY
(1,50,000MT per annum) of TMT bars.

8MM TO 32MM.
TMT BARS



This is a continuous mill and hence more productive.

Pollution free plant as the norms/standards of Pollution Control Board have been strictly followed and are being monitored.

For the first time in India such capacity plant is having 56 meter high Chimney and hence no air pollution.

Fully automated control with PLC based system taken from world renowned company i.e. M/s. Parker Hannifin, UK and thereby human error is totally eliminated.

The plant produces TMT grade of Fe 500 and Fe 550+ as per IS 1786:2008.

Plant is equipped with latest Digital Testing machine to maintain the quality.

Quality assurance is being given topmost priority.

All the Mechanical and Electrical equipments have been purchased from the best and proven manufacturers.

CNC Rib cutting machine & Branding machine have been installed.



MILL

“STATE-OF-THE-ART” MILL

**CONTINUOUS AND
AUTOMATED PLANT**

Comforming to IS 1786 : 2008 quality standards
with TEMPCORE quenching technology.
BIS License No. CM/L - 3263855

**STRENGTH & ECONOMY
OF TMT BARS PRODUCED
FROM BILLETS AS PER IS 2830**

CAPACITY
1,50,000MT per Annum

SIZES
8mm to 32mm

QUALITY
As per IS 1786



LEADERSHIP

VIA CONSISTENT INNOVATION

VISION

To manufacture world-class quality TMT Bar for the customers by adopting modern technology with energy efficient equipments, best raw materials and continual improvement plan and become one of the leading TMT Bar manufacturers in the globalized economy.



MISSION

To become quality TMT Producer in the country.

To delight each and every customer in the value chain by providing high quality products.

Serve the customers at a very competitive price and to have a presence in the Global market.



THE SMARTER PREMISE

Located at Industrial Growth Centre (known as SILPAHARI), in the Industrial & Commercial city of BILASPUR, Chhattisgarh State.

LOCATIONAL ADVANTAGE

MILL is located on Howrah – Mumbai Railway line with proximity of Bilaspur Railway Station which is about 8 km from this Mill.

Marketing of the product is easier in Raigarh / Korba belt and also in Orissa, and other parts of Eastern India.

Stable and quality HT power is available for smooth operation of the Mill.

Quality manpower is available.

Located on 31.75 acres of land with provision for future expansion and diversification.



MILL INFRASTRUCTURE

TECHNICAL DETAILS OF RE-HEATING FURNACE

Furnace Capacity : 30 MT/Hr.

Materials : Billets section of 100 sqm-130 sqm

Grade of Billet : IS 2830:1992

FURNACE DIMENSION

Effective furnace length : 18,500 mm

Inside furnace length : 19,500 mm

Inside furnace width : 6,500 mm

Inside furnace height : 1,475 mm



MILL INFRASTRUCTURE

FURNACE OPERATING TEMPERATURE

Maximum furnace temperature : 1250°C
Soaking Zone temperature : 1230°C
Heating Zone temperature : 1100°C
Discharge temperature : 1150 – 1200°C



BURNERS

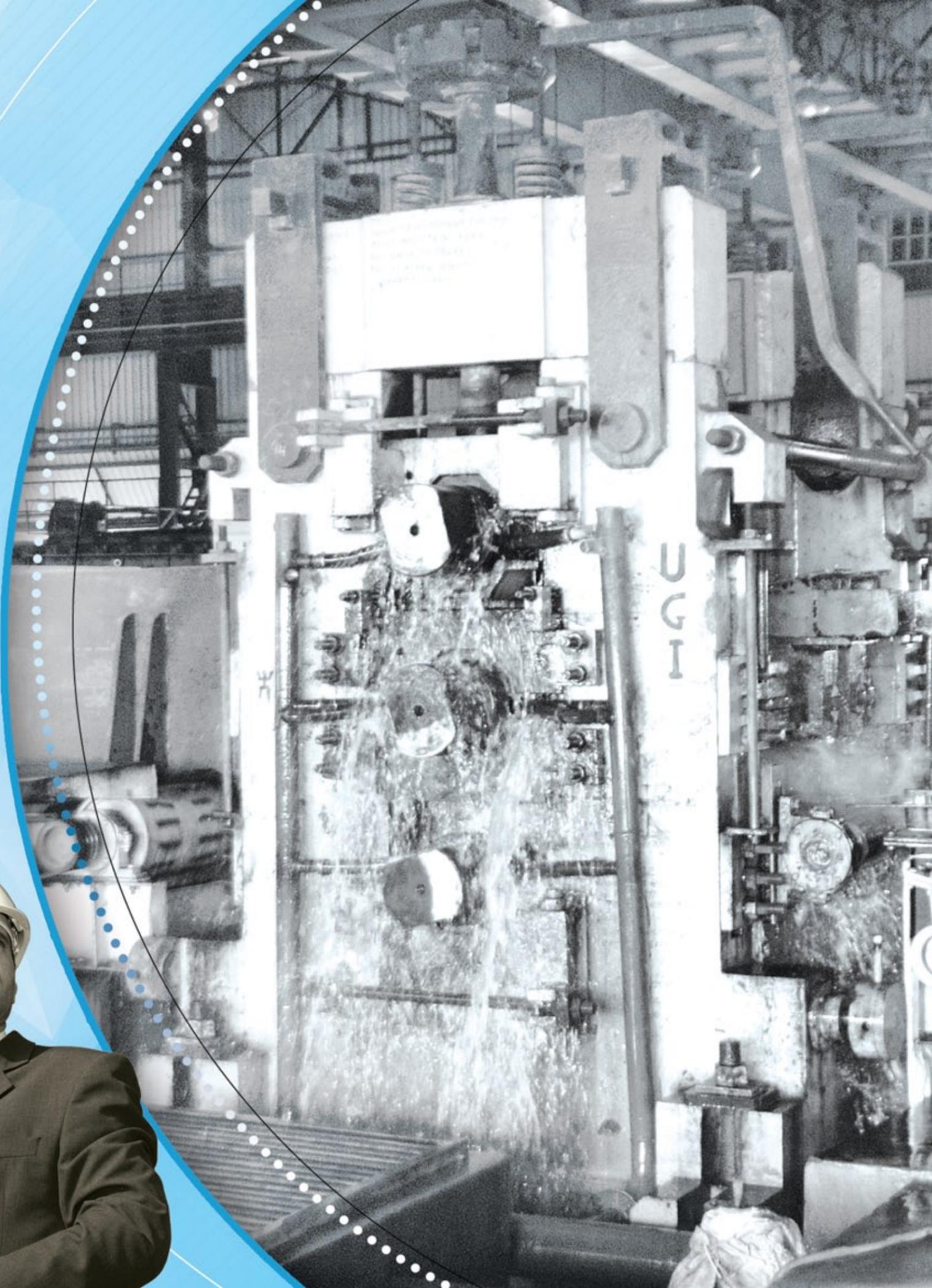
Type : "Continental" make (North American Type)
No. of burners : Soaking Zone: 6 nos.
Heating Zone: 4 nos.
Reheating Zone: 4 nos.

ROUGHING MILL

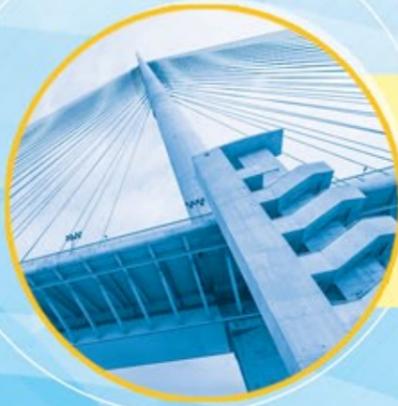
3 High Mill Stand (size 510mm)

Driven by 932 KW AC motor

Control from Roughing PULL PIT



INTERMEDIATE MILL



4 Nos. Intermediate Mill Stands (size - 350mm)

Driven by 350 KW DC motors and DC drives

Control from MAIN PULL PIT through PLC automation

SEMI-FINISHING MILL

4 Nos. Semi-finishing Mill Stands (size - 310mm)

Driven by 300 KW DC motors and DC drives

Control from MAIN PULL PIT through PLC automation



FINISHING MILL

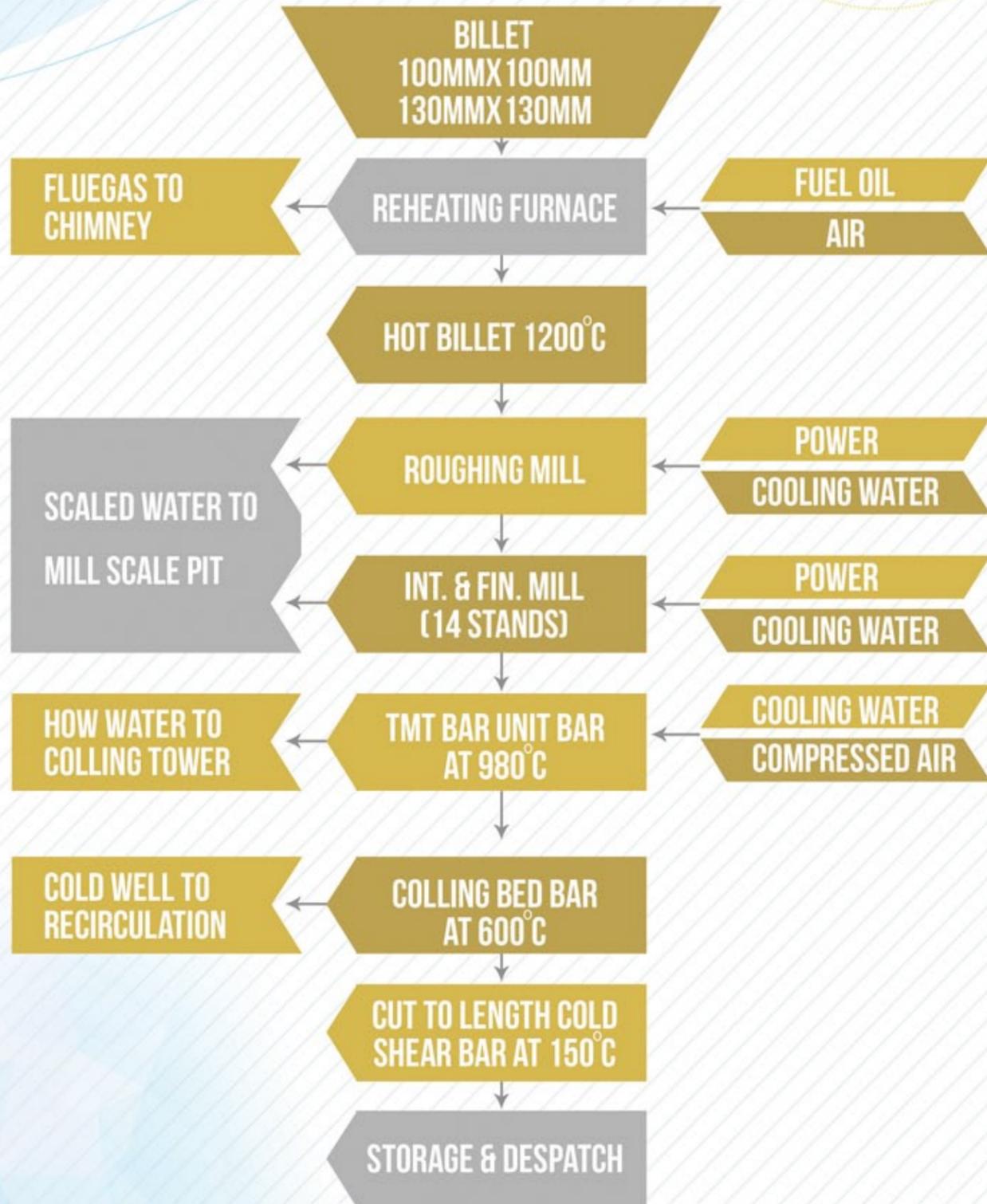
6 Nos. Finishing Mill Stands (size - 265mm).

Driven by 250 KW DC motors for 4 nos. stands and balance 2 nos. by 200KW DC motors

Control from MAIN PULL PIT through PLC automation



PROCESS FLOW DIAGRAM



MANUFACTURING PROCESS

Tested billets are charged into the Reheating furnace where temperature is controlled to heat the billets upto 1200°C / 1250°C.

Heated billets are rolled in multiple Mill Stands (15 Nos.) in sequence to get the desired TMT bar thickness. DC drives are controlled through PLC automation in the Main Control PULL PIT.

The bars then enter the TMT line equipment (Quenching chamber) to achieve the hardened surface structure while the core remains hot.

After quenching, the bars are cut in "FLYING SHEAR" and then go to Cooling bed for atmospheric cooling.

Now TMT bars are ready for despatch / storage.



ADVANTAGE "PLUS"

FOR SURSHAKTI TMT BAR



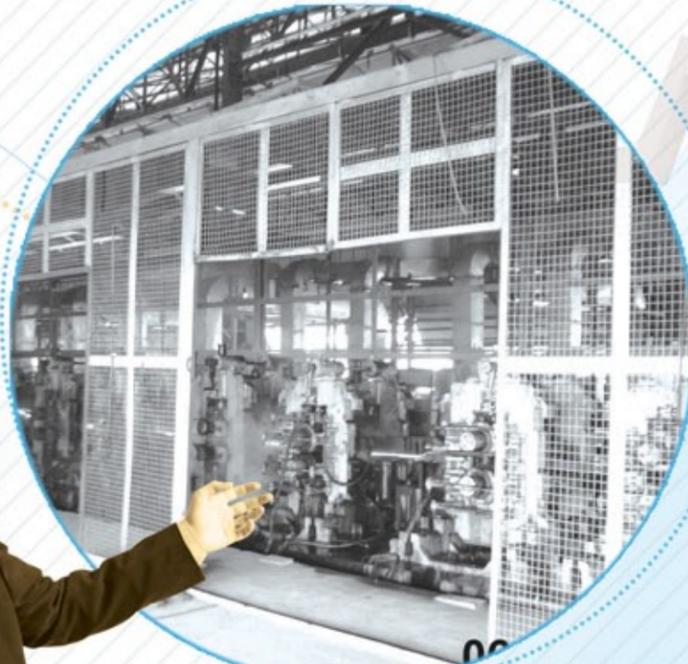
HIGHER HEAT RESISTANCE AND CORROSION RESISTANCE
SURSHAKTI TMT BAR IS HEAT & CORROSION RESISTANCE DUE TO ITS
UNIFORM MICROSTRUCTURE

EXCELLENT WELDABILITY

SURSHAKTI TMT BAR HAS EASY AND EXCELLENT
WELDABILITY DUE TO LOWER CARBON EQUIVALENT

HIGH ON QUALITY AND LOW ON COST

EXCELLENT DUCTIBILITY AND BENDABILITY



UNIQUE QUALITY STANDARDS

TMT BARS ARE MANUFACTURED FROM BEST QUALITY BILLETS (AS PER IS 2830).

COMPLETE AUTOMATED PLANT ENABLING THE COMPANY TO PRODUCE QUALITY PRODUCT.

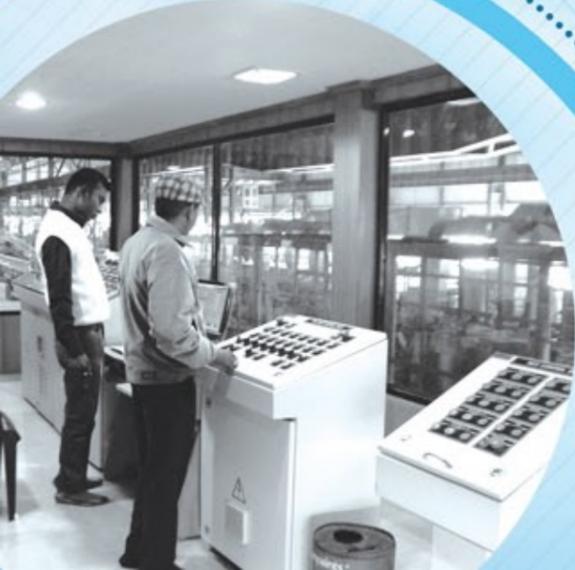
ENVIRONMENT FRIENDLY PLANT SINCE THERE IS NO POLLUTANT.

HIGH SPEED CONTINUOUS MILL.



SYSTEMATIC HANDLING — TMT BAR IS STORED AND LOADED UNDER THE COVERED SHED. LOADING IS DONE BY MAGNETIC CRANE AND THEREFORE SYSTEMATIC HANDLING IS ENSURED.

QUALITY CONTROL — WELL-EQUIPPED LABORATORY — PHYSICAL LAB AND CHEMICAL LAB AS WELL HAVE BEEN SET UP. UTM MACHINE OF BLUE STAR MAKE ASSURES QUALITY CONTROL.



CHEMICAL COMPOSITION & MECHANICAL PROPERTIES



RANGE OF SURSHAKTI TMT BARS

To cater to the requirement of construction industries, S. K. SAMANTA & CO. (P) LTD. produces various ranges of TMT bars with different grades. The details are as follows :

CHEMICAL COMPOSITION FOR FE-500 GRADE

PARAMETER	IS 1786	SURSHAKTI TMT
CARBON %	0-30 MAX.	✓
SULPHUR %	0.055 MAX	✓
PHOSPHORUS	0.055 MAX	✓
S + P %	0.105 MAX	✓

PRODUCTION SPECIFICATION

ITEM	SURSHAKTI
GRADE	FE-415, FE-500, FE-550+
DIAMETER	8MM, 10MM, 12MM, 16MM, 20MM, 25MM, 32MM
STANDARD LENGTH	6MTR TO 12MTR

MECHANICAL FOR FE-500 GRADE

PROPERTIES	IS 1786	✓
PROOF STRESS (MIN.)	500 N/MM ²	✓
TENSIL STRENGTH (MIN.)	545 N/MM ²	✓
ELONGATION % (MIN.)	12	✓
BEND TEST	UPTO 22MM-4D	✓



QUALITY GUARANTEED

Fully equipped Physical lab and Chemical Lab have been established for testing.

TMT bars produced conform to IS 1786.
Mill has been accredited with ISO 9001: 2008 certification by DNV.

Rib cutting on Rolls is done in CNC machine.

Branding machine has also been installed.

Computerized Weigh Bridge (AVERY make) has been installed.

Workshop is equipped with Modern machines for Roll turning and other jobs.



Emission of flue gas from Reheating furnace is within Pollution Standards. 56m high Chimney has been installed.

Ventury Scrubber has been installed.

"Rain Water harvesting" Scheme has been installed.

Green belt has been developed inside the factory premises.

ENVIRONMENT PROTECTION





S.K. SAMANTA & COMPANY PRIVATE LIMITED
ROLLING MILL – TMT BAR MILL

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