



Shree Ji Steel Private Limited

(Formerly Shree Ji Steel Corporation)

Trusted Source of Steel Solution

MS NPB BEAM
(NARROW PARALLEL FLANGE BEAM)





Shree Ji Steel Private Limited

Shree Ji Steel Private Limited, formerly known as Shree Ji Steel Corporation, is an ISO-certified company and a leading trader and exporter in India's steel industry. With a legacy spanning 4 generations, we take pride in offering a diverse range of high-quality iron and steel products, upholding our tradition of excellence. We offer PAN India delivery.

Know us better.

120,087 MT+

Steels Delivered

4 Generation

of Experience

11.3K

Happy Customers

99.4%

Clients Satisfaction





Mild Steel NPB Beam

NPB (Narrow Parallel Flange Beam) features parallel flanges (top and bottom are straight and parallel) and has narrower flanges compared to WPB or H Beams. It is designed for precise load distribution and is commonly used in construction for its high strength-to-weight ratio. It is internationally termed as IPE Beam.

Key Features

- ✓ **Size:** 100x55 to 750x270
- ✓ **Length** - Normally supplied in the 12 meters fixed in length
- ✓ **Web thickness:** From 4.1mm to 15.6mm
- ✓ **Flange thickness:** 5.7mm to 26.6mm
- ✓ **Width of the Flange:** 55mm to 270 mm
- ✓ **Depth (Height):** 100mm to 750mm
- ✓ **Grade** - IS2062 E250BR, 350BR
- ✓ **Flange Slope** : 90 degrees

Available Brands

✓ **NEX from SAIL**



Other Features



- ✓ The HSN Code of the NPB is - 72163200
- ✓ Root Radius : Between 7.00mm to 24.00mm
- ✓ Material is packaged with automatic strapping and bundling machine
- ✓ NPB is Manufactured in India (by Steel Authority of India Limited)
- ✓ RITES Inspection Facility Available. **
- ✓ NPB by SAIL is a **RDSO (Research Designs and Standards Organization)** approved Product
- ✓ Can be Used in **MES (Military Engineer Services)** Projects



RDSO

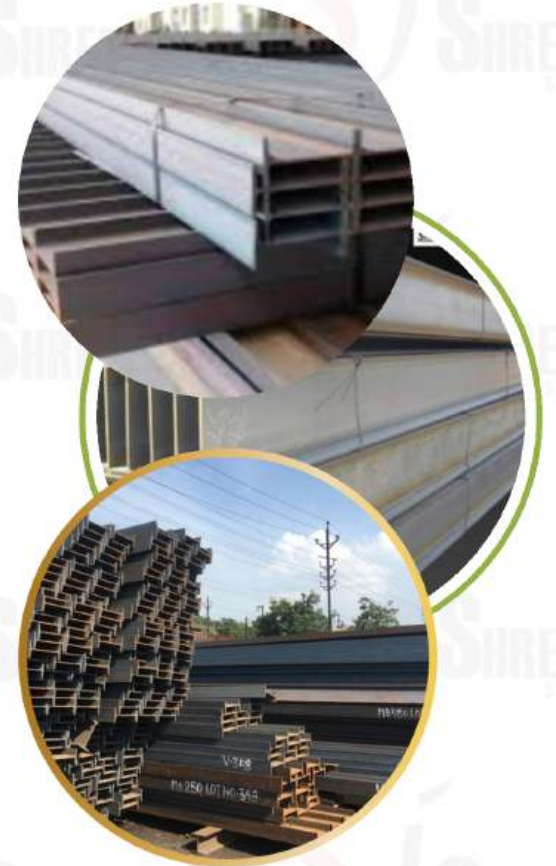
Research Design & Standards Organisation





MS NPB Beam Weight Chart

Size (in mm)	Weight Per Meter In KG	Weight Per Foot in KG	Weight Per 12 Meter Pcs
100x55mm	8.1	2.47	97
200x100mm	22.36	6.82	268
200x100mm	25.09	7.65	301
240x120mm	30.71	9.36	369
250x125mm	30.11	9.18	361
270x135mm	36.07	10.99	433
300x150mm	36.53	11.13	438
300x150mm	42.24	12.87	507
300x150mm	49.32	15.03	592
350x170mm	57.09	17.40	685
400x180mm	57.38	17.49	689
400x180mm	66.31	20.21	796
400x180mm	75.67	23.06	908





MS NPB Beam Weight Chart

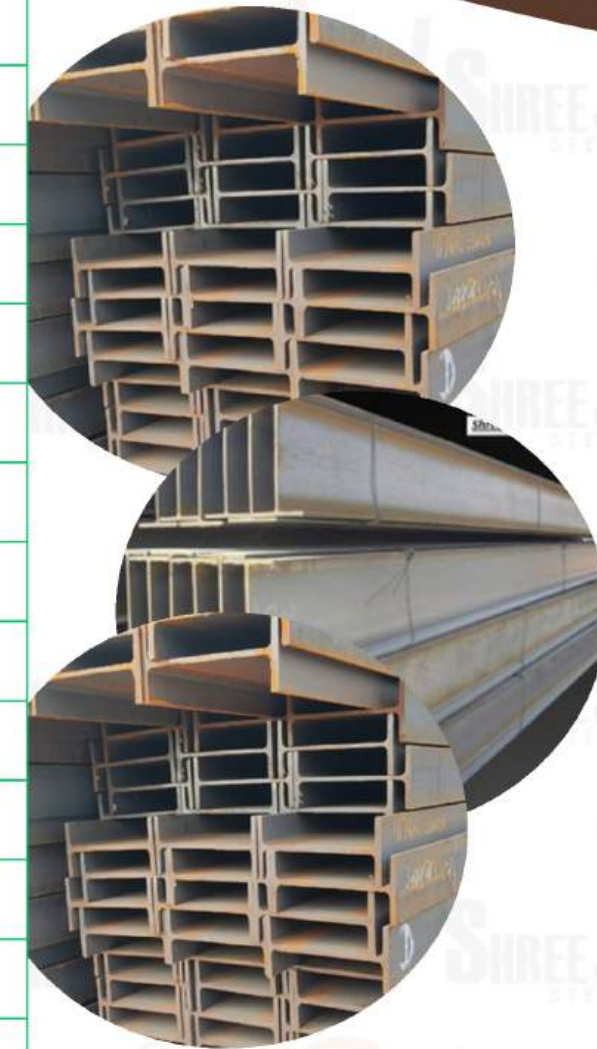
Size (in mm)	Weight Per Meter In KG	Weight Per Foot in KG	Weight Per 12 Meter Pcs
450x190mm	67.16	20.47	806
450x190mm	77.58	23.65	931
450x190mm	92.37	28.15	1108
450x190mm	95.20	29.02	1142
450x190mm	104.00	31.70	1248
500x200mm	79.36	24.19	952
500x200mm	90.69	27.64	1088
500x200mm	107.32	32.71	1288
550x210mm	105.52	32.16	1266
600x220mm	107.57	32.79	1291
600x220mm	122.45	37.32	1469
600x220mm	184.00	56.08	2208
750x270mm	173.00	52.73	2076
750x270mm	174.54	53.20	2094
750x270mm	185.00	56.39	2220
750x270mm	196.00	59.74	2352
750x270mm	202.49	61.72	2430





Web Thick and Flange Thick

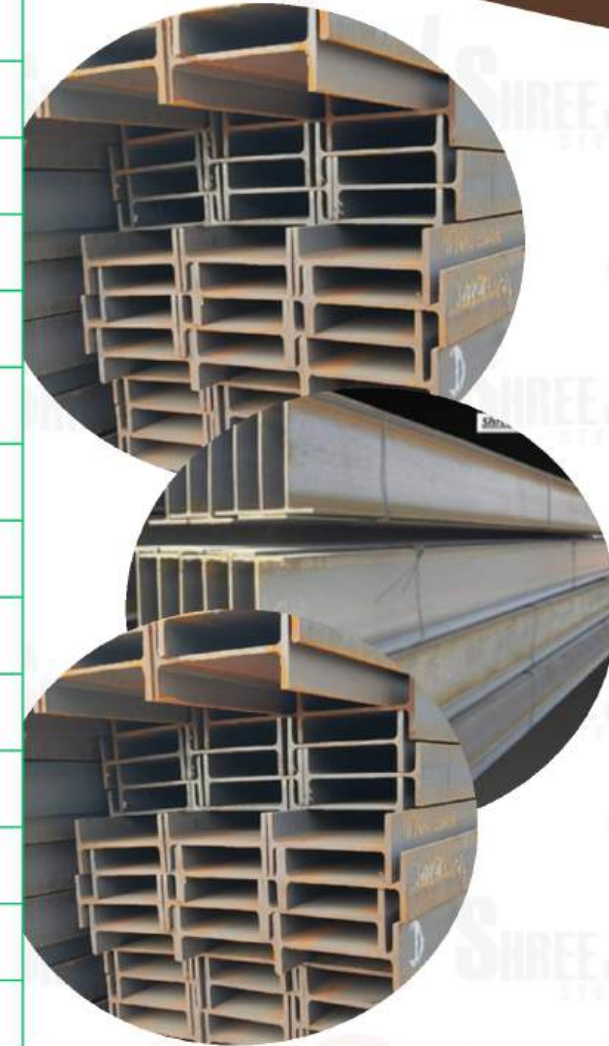
Size (in mm)	Weight Per Meter in Kg	Web Thickness	Flange Thick	European Beam Standard
NPB 100x55	8.1	4.1	5.7	IPE 100
NPB 200x100	22.36	5.6	8.5	IPE 200
NPB 200x100	25.09	6.2	9.5	IPE 200 O
NPB 250x125	30.11	6	9	IPE 250
NPB 300x150	36.53	6.1	9.2	IPE 300 A
NPB 300x150	42.24	7.1	10.7	IPE 300
NPB 300x150	49.32	8	12.7	IPE 300 O
NPB 400x180	57.38	7	12	IPE 400 A
NPB 400x180	66.31	8.6	13.5	IPE 400
NPB 400x180	75.67	9.7	15.5	IPE 400 O
NPB 450x190	67.16	7.6	13.1	IPE 450 A
NPB 450x190	77.58	9.4	14.6	IPE 450
NPB 450x190	92.37	11	17.6	IPE 450 O





Web Thick and Flange Thick

Size (in mm)	Weight Per Meter in Kg	Web Thickness	Flange Thick	European Beam Standard
NPB 450x190	104	12	19.6	IPE 450 R
NPB 500x200	79.36	8.4	14.5	IPE 500 A
NPB 500x200	90.69	10.2	16	IPE 500
NPB 500x200	107.32	12	19	IPE 500 O
NPB 600x220	107.57	9.8	17.5	IPE 600
NPB 600x220	122.45	12	19	IPE 600 O
NPB 600x220	154.47	15	24	IPE 600 V
NPB 600x220	183.52	18	28	
NPB 750x270	173	14.4	21.6	IPE 750 A
NPB 750x270	174.54	14.4	21.6	IPE 750
NPB 750x270	185	14.9	23.6	IPE 750 O
NPB 750x270	196	15.6	25.4	IPE 750 R
NPB 750x270	202.49	15.6	26.6	IPE 750 V





Difference between NPB and ISMB

ISMB Section	NPB Section
100x50	100x55
200x100	200x100
250x125	250x125
300x140	300x150
400x140	400x180
450x150	450x190
500x180	500x200
600x210	600x220





Technical Specifications of NPB Beam

**CHEMICAL
COMPOSITION**

NPB BEAM CHEMICAL COMPOSITION: (IN % MAXVALUES)								
Grade	Quality	Ladle Analysis, Wt % Max					Carbon Equivalent, Max	Mode of Deoxidation
		C	Mn	S	P	Si		
E 250	A	0.23	1.5	0.045	0.045	0.4	0.42	Semi Killed / Killed
	BR, BO	0.22	1.5	0.045	0.045	0.4	0.41	Semi Killed / Killed
E 350	A, BR, BO	0.2	1.55	0.045	0.045	0.45	0.47	Semi Killed / Killed
	C	0.2	1.55	0.04	0.04	0.45	0.45	Killed





Technical Specifications of NPB Beam

MECHANICAL PROPERTIES



NPB BEAM MECHANICAL PROPERTIES: (IN % MAXVALUES)										
Grade Designation	Quality	Tensile Strength Rm Min MPa	Yield	Stress MPa	Min	Percentage Elongation A , at Gauge Length , L = 5.65 VS Min	Min	Internal Bend	Charpy Impact Test	
			≤ 20	20-40	> 40		< 25	> 25	Temp °C	J. Min
E - 250	A	410	250	240	230	23	2t	3t	-	-
	BR								RT	27
	BO								0	27
	c								(-) 20	27
E - 350	A	490	350	330	320	22	2t	.	-	-
	BR								RT	27
	BO								0	27
	C								(-) 20	27





Tolerance of NPB Beam



Tolerance as per IS 12779 : 1989 (1995) Standard



Depth tolerance upto 200mm depth is + 3.0/ -2.0, for 200 to 400mm is +/- 3.0mm and for 400-600 mm is +/- 4.0.



Tolerance on **Width of Flange** is +/- 2.0mm in the case of beams less than 100mm in width and +/- 2.5 in the case of Flange width between 100mm to 125mm. Also, +/- 4.0 for flange width 125mm to 250mm



MILL TEST CERTIFICATE



STEEL AUTHORITY OF INDIA LIMITED
HISCO STEEL PLANT
BURNPUR - 713325, WEST BENGAL, INDIA
(Registered Office: Ispat Bhawan, Lodi Road, New Delhi - 110003)
TEST CERTIFICATE FOR HOT ROLLED MEDIUM AND HIGH TENSILE STRUCTURAL STEEL

PRODUCT: NARROW PARALLEL FLANGE BEAMS

TEST CERTIFICATE NO. : TC_8000324404
SHIPPING ADVICE NO. : 8000324404
CONSIGNEE NAME & ADDRESS :

TC DATE : 17.03.2025
SHIPPING DATE : 17.03.2025

Page No. : 1 of 3

WAGON/TRAILER NO. :

It is certified that the material described below fully conforms to IS 2062 : 2011. Chemical composition and Mechanical properties of the product, as tested in accordance with the Scheme of Inspection and Testing contained in the BIS Certification Marks License No.CM/L-00512 are as indicated below against each Order/Cast No.
(Please refer to IS 2062 : 2011 for details of specification requirements)

TEST RESULTS

Designation: NPB 350 X 170 X 57.10
Mode of De-oxidation: Si-Killed

Order / MP No. & Date : 17022780 (03.03.2025)
Supply Condition: As per specification

Total weight: 64.780 MT

Cast No.	No. Of Pcs	Section (nominal Size)			Qty in MT	Chemical Composition															
		Depth (mm) X Fl width (mm) X Fl Thk(mm) X Web Thk (mm)X Sectional Weight (Kg/m)	Length (m)			C	Mn	P	S	Si	Al	Cu	Nb	V	Ti	Cr	Mo	Ni	B	N ₂ (ppm)	CE%
		Specification				-	-	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-
					Max	0.22	1.50	0.045	0.045	0.40	-	-	-	-	-	-	-	-	-	90	0.41
32503585	50	360 X 170 X 12.7 X 8.0 X 57.10			34.719	0.20	0.76	0.025	0.024	0.25	0.002	0.01	0.000	0.001	0.002	0.02	Tr	0.01	0.0005	64	0.33

For illustration purpose only

Cast No.	Yield Strength, MPa		Tensile Strength, MPa		% Elongation Gauge Length = 5.65 * sqrt (So)		Bend		Impact (J) Avg.		Grade
	250 min	323	410 min	466	23 min	25	2t min	OK	OK	NS	
32503585	320	323	460	466	26	25	OK	OK	NS		IS 2062 : 2011 E250BR

Dimensions conform to IS 808 and tolerances to IS 12779.

Chemical Composition reported is Ladle Analysis

Surface Quality: Satisfactory

Process Route: BF-BOF-LF-CC-UNIVERSAL STRUCTURAL MILL

Remarks :TC as per EN 10204 Inspection Certificate type 3.1.

LEGEND (where applicable):

CE = Carbon Equivalent = C + Mn/6 + (Cr + Mo + V)/5 + (Cu + Ni)/15

Not Specified, Tr = Trace; J = Joules, Thk = Thickness, Fl = Flange



AUTHORISED SIGNATORY





NPB BEAM Grades & Standards

✓ Grade of NPB Beam - IS2062 E250BR, 350BR

International Equivalents

- = ASTM Standard : ASTM A36
- = Japanese Standard : JIS SS400
- = British Standard : BS 43A
- = European Standard : S235JR (EN 10025)
- = Chinese Standard (GB) : GB Q235B





WHAT CUSTOMERS ASK ?



Would Shree Ji Steel Corporation provide any certification or report along with the delivered materials?



Yes, an MTC or Mill Test Certificate will be provided to you.



Do you provide galvanized NPB?



Yes, Hot-Dip Galvanized NPB is available at Shree Ji Steel Private Limited.



What are the available standard length of NPBs available at Shree Ji Steel ?



The standard length of NPBs is 12m available at Shree Ji Steel





QUALITY AND CERTIFICATIONS



Shree Ji Steel is ISO Certified Steel Trader, Supplier, and Exporter



We are Authorized Dealer of SAIL & RINL





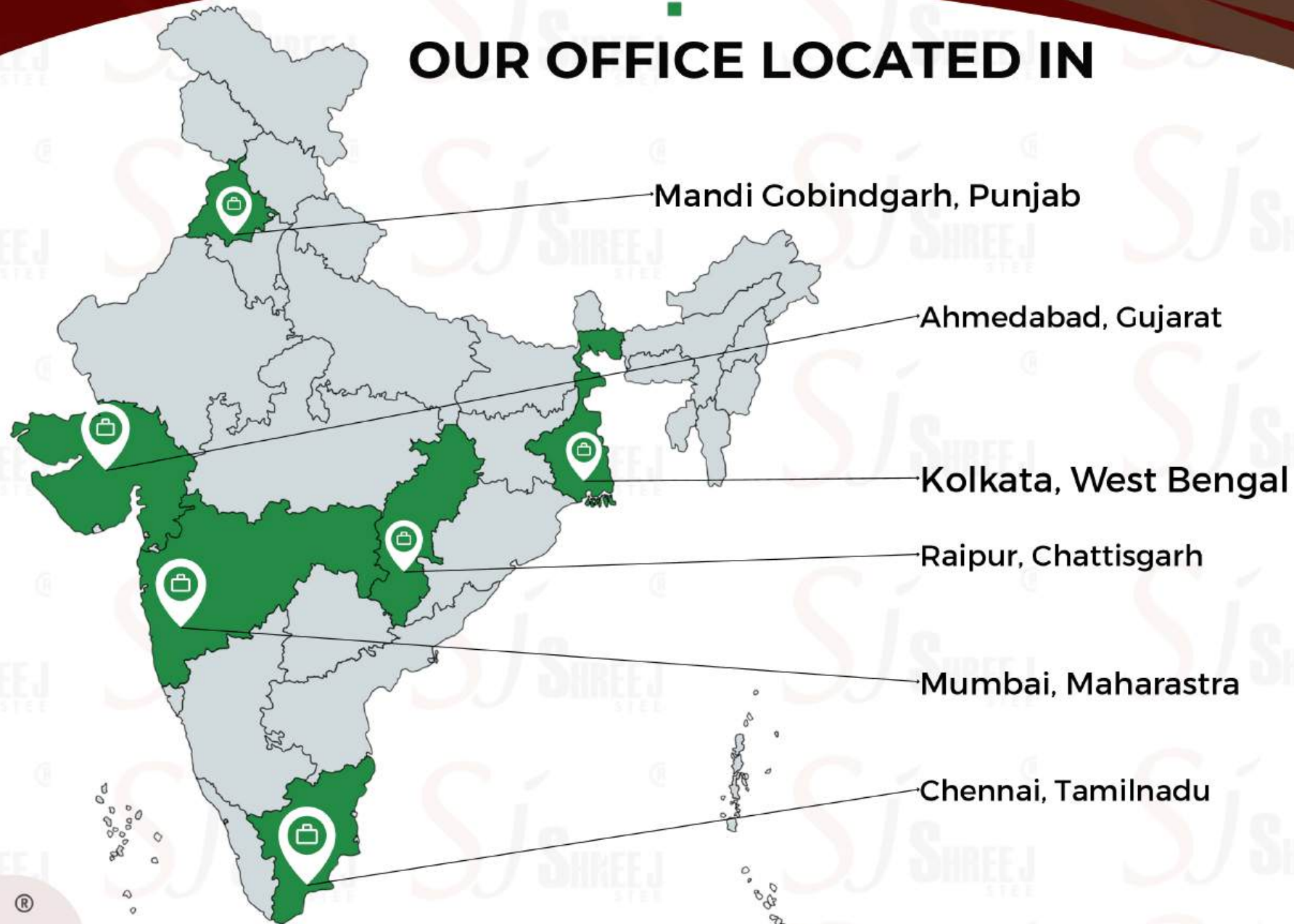
WHY CHOOSE US?

- ✓ Pan India Delivery Facility
- ✓ Dedicated Customer Support
- ✓ Live Vehicle tracking facility
- ✓ Comprehensive Insurance Coverage
- ✓ Transparent Live Pricing of Products & market trend
- ✓ ISI Certified Materials
- ✓ Trusted Source of Steel Solution for 4 Generations
- ✓ Live Photo Sharing After Loading and Other Steps



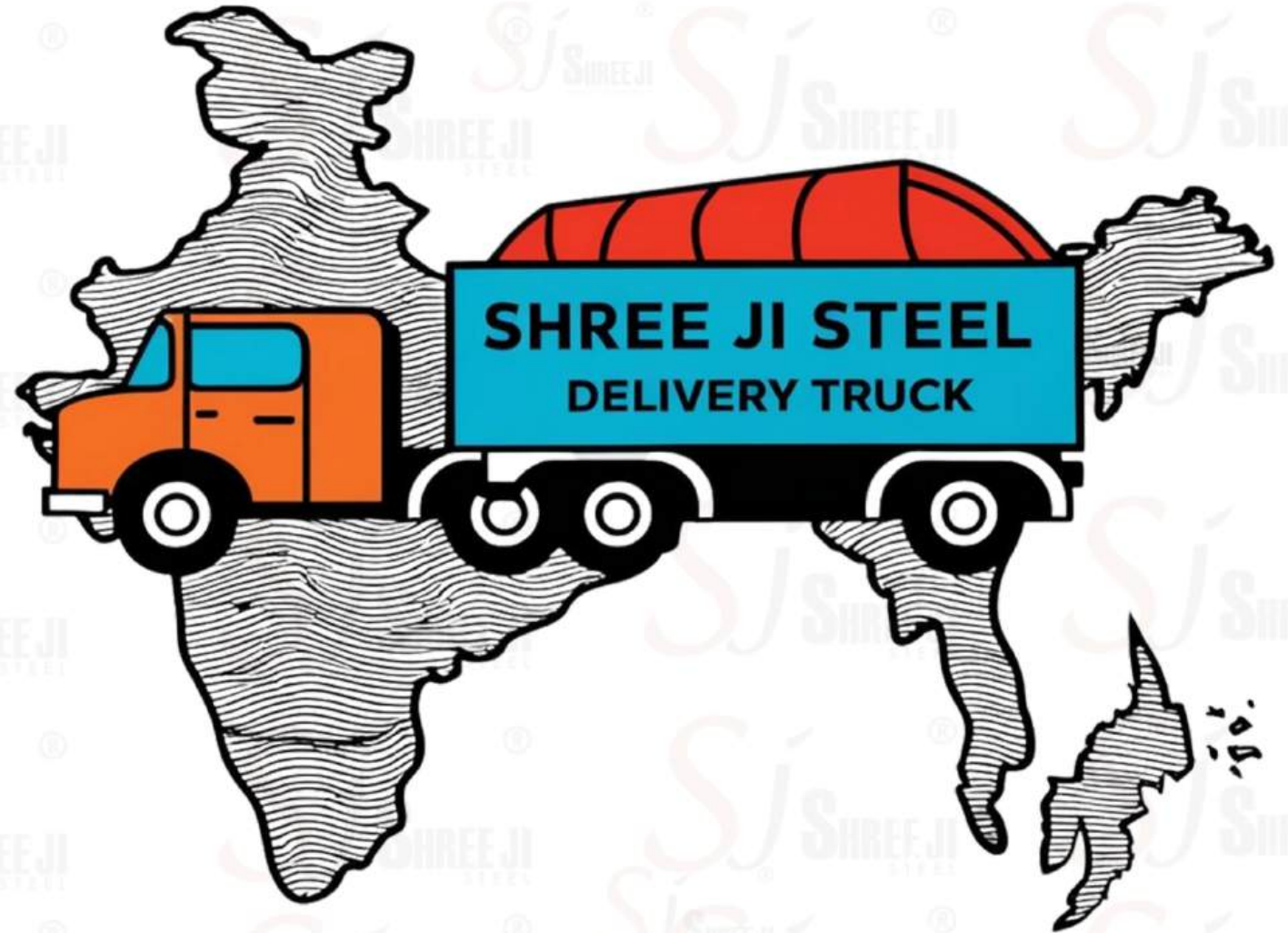


OUR OFFICE LOCATED IN





SHREE JI OFFER PAN-INDIA DELIVERY





Testimonials & Clientele



1297 Reviews



We are rated **4.1 out of 5** on Indiamart.



256 Reviews



We are rated **4.6 out of 5** on Justdial.



181 Reviews



We are rated **4.8 out of 5** on Google.



We are rated **4.1 out of 5** on Tradeindia.



Ademo Rory
5 reviews • 0 photos

★★★★★ 21 weeks ago

Good customer service received from Shree Ji steel company and good to work in the future as well. A big thank you from Nagaland.



Patgiri Enterprise
3 reviews • 9 photos

★★★★★ 4 weeks ago **NEW**

I have bought iron from Shree Ji Steel Private Limited several times and every time I get the weights right.

The staff of Shree Ji Steel Private Limited is very polite and courteous.

I wish them good luck.

Thank you.

Regards



Manoj Agarwal
3 reviews • 2 photos

★★★★★ 26 weeks ago

Timely delivery & nice follow up from purchase order to delivery at every stage





The Directors of Shree Ji Steel



Satish Gupta

Jatin Gupta



<https://www.linkedin.com/in/jatingupta12/>



Karan Gupta



<https://www.linkedin.com/in/karan-gupta-shreeji/>

facebook

facebook.com/shreejisteelcorporation

40K+ Followers

Instagram

instagram.com/shree_ji_steel

3.5 K+ Followers

LinkedIn

linkedin.com/company/shree-ji-steel-corporation

1224 Followers



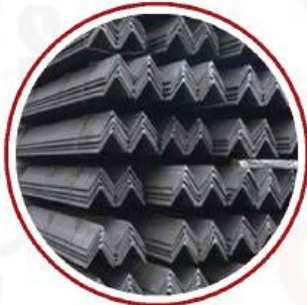


Other Products

Available at Shree Ji Steel



TMT Bar



MS Angle



MS Channel



MS Beam



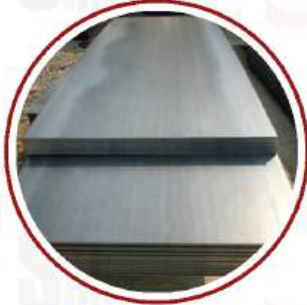
MS Flat Bar



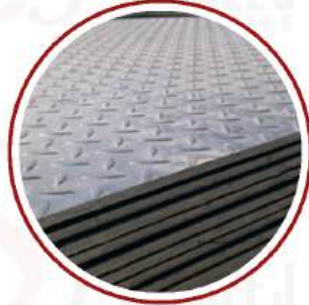
MS Round Bar



MS Square Bar



MS Plate



Chequered Plate



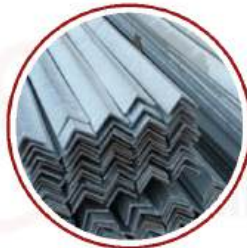
MS Pipe



Binding Wire



Wire Rod



Galvanised Angle



Galvanised Flat Bar





Our Product Ranges

Available at Shree Ji Steel

Products	Size range available
TMT Bar	4.5mm to 32mm
Lightweight TMT bar	08mm to 16mm
MS Angle	19*19*3mm to 200*200*25mm
MS Channel	75*40mm to 400*100mm
MS Beam/ISMB	100*50mm to 600*210mm
NPB	100 *55 mm to 750*270mm
WPB	160*160mm to 300*300mm
UB (Universal Beam)	UB 203*133 to UB 610*229
UC (Universal Column)	UC 152 *152 to UC 356*406
MS Flat Bar	12*3mm to 500*50mm
MS Round Bar	05 mm to 125mm

Products	Size range available
MS Square bar	06mm to 75 mm
MS Plate	1.6mm to 50mm
Chequered Plate	2.5mm to 10mm
MS Round Pipe	15mmNB to 600mmNB
MS Square Pipe	15*15mm to 400*400 mm
MS Rectangular Pipe	40*20 mm to 400*200 mm
Binding wire	18 SWG to 23 SWG
HB Wire	06 SWG to 14 SWG
Wire Rod	5.5mm to 12mm
Ribbed Coil	4.5mm to 10mm





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For More Details Click here

