

**TECHNICAL SPECIFICATION FOR**  
**M.S.BEAM 116 X 100MM X 9 MTRS. LONG.**

**DETAILED TECHNICAL SPECIFICATIONS FOR M.S.BEAM 116 X 100MM X 9 MTRS. LONG:-**

**[1] SCOPE :-**

This Specification covers Manufacturing / Rolling, Testing as per IS: 2062 (with latest amendment if any) and supply of M.S.BEAM 116 X 100MM X 9 Mtrs. Long to PGVCL's Destination (within Gujarat State) i. e. F. O. R. Destination.

M.S.BEAM shall be conforming to IS: 2062, Grade - A (Fe 410 WA) Quality under BIS Certification Mark Scheme.

**[2] DIMENSION :-**

"M.S.BEAM (R.S.J.Girders) of size 116 X 100MM X 9 Mtrs. , with fixed length of 9 Meters with Length Tolerance of  $\pm 150$  MM. Detailed Dimensions shall be as per attached Annexure -A

**[3] ROLLING TOLERANCE :-**

Rolling and Cutting Tolerance for the materials to be supplied will be as per IS: 1852.

**[4] RAW MATERIALS :-**

The Raw Materials to be utilized for Rolling the finished Goods, must be Tested Billets / Blooms Conforming to IS : 2830 OR IS : 6914. Please note that neither assistance for Raw Material viz. recommendations letter on prime producers nor essentiality Certificates will be issued by this PGVCL against this Tender nor Raw Materials will be issued by the PGVCL against this Tender.

**[5] EMBOSSING OF BEAMS :-**

Each Beam must be embossed in the middle of the length along Rolling Direction with following details.

**Manufacturer's Name or Trade Mark.**

**Size of Beam : H - Beam 116 X 100 MM.**

**[6] SECTIONAL WEIGHT :-**

Sectional Weight of the Beams shall be 23.00 Kg. / Mtr.

Signature of Tenderer:		Company's Round Seal:
Date:	Place:	

## TECHNICAL SPECIFICATION FOR M.S.BEAM 116 X 100MM X 11 MTRS. LONG.

### DETAILED TECHNICAL SPECIFICATIONS FOR M.S.BEAM 116 X 100MM X 11 MTRS. LONG:-

**[1] SCOPE :-**

This Specification covers Manufacturing / Rolling, Testing as per IS: 2062 (with latest amendment if any) and supply of M.S.BEAM 116 X 100MM X 11 Mtrs. Long to PGVCL's Destination (within Gujarat State) i. e. F. O. R. Destination.

M.S.BEAM shall be conforming to IS: 2062, Grade - A (Fe 410 WA) Quality under BIS Certification Mark Scheme.

**[2] DIMENSION :-**

"M.S.BEAM (R.S.J.Girders) of size 116 X 100MM X 11 Mtrs., with fixed length of 9 Meters with Length Tolerance of  $\pm 150$  MM. Detailed Dimensions shall be as per attached Annexure -A

**[3] ROLLING TOLERANCE :-**

Rolling and Cutting Tolerance for the materials to be supplied will be as per IS: 1852.

**[4] RAW MATERIALS :-**

The Raw Materials to be utilized for Rolling the finished Goods, must be Tested Billets / Blooms Conforming to IS : 2830 OR IS : 6914. Please note that neither assistance for Raw Material viz. recommendations letter on prime producers nor essentiality Certificates will be issued by this PGVCL against this Tender nor Raw Materials will be issued by the PGVCL against this Tender.

**[5] EMBOSSING OF BEAMS :-**

Each Beam must be embossed in the middle of the length along Rolling Direction with following details.

**Manufacturer's Name or Trade Mark.**

**Size of Beam : H - Beam 116 X 100 MM.**

**[6] SECTIONAL WEIGHT :-**

Sectional Weight of the Beams shall be 23.00 Kg. / Mtr.

Signature of Tenderer:		
Date:	Place:	
		Company's Round Seal:

**TECHNICAL SPECIFICATION FOR**  
**M.S.BEAMS 150 X 150MM X 13 MTRS. LONG.**

**DETAILED TECHNICAL SPECIFICATIONS FOR Above M.S.Beams:-**

**[1] SCOPE :-**

This Specification covers Manufacturing / Rolling, Testing as per IS: 2062 and supply of above sizes M.S.Beams to PGVCL's Destination (within Gujarat State) i. e. F. O. R. Destination.

M.S.Beams shall be conforming to IS: 2062, Grade - A (Fe 410 WA) Quality under BIS Certification Mark Scheme.

**[2] DIMENSION :-**

Above sizes M.S.Beams with fixed length of 13 Meters with length tolerance of  $\pm 150$  MM. Detailed dimension shall be as per attached Annexure - B.

**[3] ROLLING TOLERANCE :-**

Rolling and Cutting Tolerance for the materials to be supplied will be as per IS: 1852.

**[4] RAW MATERIALS :-**

The Raw Materials to be utilized for Rolling the finished Goods, must be Tested Billets / Blooms Conforming to IS : 2830 OR IS : 6914. Please note that neither assistance for Raw Material viz. recommendations letter on prime producers or essentiality Certificates will be issued by this Board against this Tender nor Raw Materials will be issued by the Board against this Tender.

**[5] EMBOSSING OF BEAMS :-**

Each Beam must be embossed in the middle of the length along Rolling Direction with following details.

**[6] Manufacturer's Name or Trade Mark.**

**Size of Beam : H - Beam 150 X 150 MM OR - Beam 152 x 152 MM &  
Manufacturers NAME**

**[7] SECTIONAL WEIGHT :-**

Beams should have sectional weight of - 34.6Kg./Mtr. (For 150 x 150 MM M.S.BEAM)

Signature of Tenderer:		
Date:	Place:	
		Company's Round Seal:

## SCHEDULE - I

SCHEDULE OF TECHNICAL PARTICULAR OF THE TENDERER REQUIRED FOR ASCERTAINING TECHNICAL ACCEPTABILITY OF OFFER. (THIS SCHEDULE - I DULY FILLED AND SIGNED SHOULD BE SUBMITTED ALONG WITH TENDER)

Sr. No.	Description	For Items of Steel Offered (To be filled up by Tenderer)
1.	Name of the Manufacturer	
2.	Standard Applicable. Whether the Tenderer or / Principal Re-Roller has valid BIS License to use IS Mark?	
3.	Whether Materials will be supplied under BIS Certification Mark Scheme?	
4.	Give details of BIS License held. <u>Attested copy of BIS License along with latest extension showing validity should be submitted. (This is a must).</u>	
5.	Whether the Materials will be Rolled from Tested Billets conforming to IS : 2830 / IS : 6914? (Specify Quality).	
6.	Whether Manufacturer possesses the facility to Rolls Billets / Ingots / Bloom Slab as may be required for Rolling the Section?	
7.	Whether Manufacturing Unit possesses well equipped Laboratory for Testing Mechanical and Chemical Properties of Raw and Finished Steel?	
8.	Details of Quality Assurances Plan at the works of Manufacturers for in House or bought out items.	
9.	List of Machineries installed / Available at the Manufacturers works.	

Signature of Tenderer:		
Date:	Place:	
		Company's Round Seal:

## SCHEDULE - II

**[SUBMIT ALONG WITH TENDER TECHNICAL BID]**

### TECHNICAL DETAILS OF ROLLING MILLS FURNACE AND OTHER EQUIPMENTS

#### **[A] DETAILS OF REMELTING FURNACE:-**

Sr. No.	Particulars	
1.	Type of Furnace	Electric Arc Furnace / Oil Fired / Coal Fired
2.	Capacity of the Furnace	
3.	Inside Hearth Width of Furnace	
4.	Length of Hearth at the Entry of Furnace	
5.	Maximum Weight of one piece of Raw Materials that can be entered in to Furnace	
6.	Temperature of Heated Piece of Raw Materials at the exit of Furnace	
7.	Facilities available at the exit of the Furnace to remove scale formed during heating. Details thereof.	
8.	Arrangements made for transfer of Hot Metal from Furnace to Rolling Mill Stand. Details thereof.	

#### **[B] ROLLING MILL STANDS:-**

1.	Nos. of Stands	
2.	Operational details of Each Stand	
3.	Nos. of passes that are being Carried Out.	
4.	Whether Universal Mill Stand is provided/ If yes, details thereof.	
5.	Details of Drive, Power of Each Stand, its Capacity, Fly Wheel and Transmission between Fly Wheel and Stand. Details thereof.	
6.	The Operational details of Rolling Mill whether. Details of Operation Activity of above.	[i] Automatic [ii] Semi Automatic [iii] Manual
7.	Operational details of Transfer of Rolling Section from one Stand to another. Details of above.	[i] Automatic [ii] Semi Automatic [iii] Manual

Signature of Tenderer:		
Date:	Place:	
		Company's Round Seal:

[C]	Details of Cooling Bed installed adjacent to Mill length of Cooling Bed.	
[D]	Straightening Facilities available. Whether	[i] Mechanical [ii] Hydraulic [iii] Pneumatic [iv] Any Other Type
	DETAILS OF ABOVE	
[E]	Hot and Cold Saw facilities available. Details thereof.	
[F]	Maximum Length of Heavy Structural Section that can be Rolled at your Mill.	
[G]	<p><b><u>RAW MATERIALS</u> :-</b></p> <p>[i] Size of Bloom / Slab required for Rolling the Section.</p> <p>[ii] Source of availability for Rolling the Section.</p> <p><b>[iii] Confirmation of Raw Materials from source to meet requirement in case order is placed may please be submitted.</b></p>	

Signature of Tenderer:		
Date:	Place:	Company's Round Seal: