

TECHNICAL SPECIFICATIONS OF STRUCTURAL STEEL ITEMS

[1] SCOPE:-

This Specification covers the Manufacturing and Testing at works and supply of Structural Steel Items.

[2] APPLICABLE STANDARD:-

As per IS : 2062 / 1992 for Steel for General Structure purpose and other relevant standard mentioned therein with latest amendment up to date of Tender.

[3] GENERAL REQUIREMENT:-

Material (not re-rolled) of Grade - 'A' (Fe-410WA) shown in Schedule - "A" above should be supplied confirming to IS: 2062/92 with latest amendment if any.

[4] DIMENSION:-

The Material Dimension shall be in accordance with the relevant Indian Standard Mentioned in table 3 of IS: 2062/92. The Rolling Tolerance shall be as per IS: 1852/85.

[5] THE SAMPLES AND ACCEPTANCE CRITERIA:-

The Nos. of sample randomly selected from the lot shall be in accordance with and acceptance criteria shall as per IS: 2062/1992.

[6] ACCEPTANCE TEST:-

The Acceptance Test as per following are to be carried out on randomly selected sample.

- [a] Verification of Dimension.
- [b] Yield Strength Test.
- [c] Elongation Test.
- [d] Bend Test.
- [e] Chemical Composition.

[7] ISI LICENSE:-

The Bidder should submit Notarized Copy of BIS License of 2062/92 along with Schedule - I clearly showing the size of Tender / Offer Item valid at least up to the date of opening of Tenders. If applied for renewal of the License, Copy of Receipt of the Fees and / as acknowledge of application from BIS License. **The offer without the BIS License shall be straight way rejected.**

[8] MARKING:-

As per IS: 2062/92 each product except M. S. Flat and M. S. Round Bars shall carry a tag or be marked with the Manufacturer's Name or Trademarks. Bars and Flats shall carry a tag bearing the manufacturing's name of trademark. Designation of Steel should also be similarly marked on the product or tag. Each

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

end of rolled product shall be painted with Green Colour as per specified for Grade - A in IS: 2062/92.

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><u>RAW MATERIALS</u> :-</p> <p>[i] Size of Bloom / Slab required for Rolling the Section.</p> <p>[ii] Source of availability for Rolling the Section.</p> <p>[iii] Confirmation of Raw Materials from source to meet requirement in case order is placed may please be submitted.</p>	

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