

Technical Specification
BHEL Enquiry No. E1443054

Enquiry items along with quantities:

Item No.	Size & Item description	Technical requirement	Nominal Qty in KG	GeM Quantity (with +10%) in KG	Quantity (with -10%) in KG
1	32 MMX60 MM NORMALISED STEEL FLAT IN 4TO6 MTR RANDOM LENGTH TO SPEC AA10119 REV15(IS:2062 GRADE-E250)	32 MM X 60 MM NORMALISED STEEL FLAT IN 4 TO 6 METER RANDOM LENGTH TO SPECIFICATION AA10119 REV 15 (IS:2062 GRADE-E250) MATERIAL TEST CERTIFICATES COVERING ALL THE MECHANICAL AND CHEMICAL PROPERTIES STRICTLY AS PER SPECIFICATION SHALL BE FURNISHED ALONG WITH SUPPLY.	15000	16500	13500
2	25MMX50MM NORMALISED STEEL FLAT IN 4 TO 6 MTR RANDOM LENGTH TO SPEC AA10119 REV15(IS:2062 GRADE-E250)	25 MM X 50 MM NORMALISED STEEL FLAT IN 4 TO 6 METER RANDOM LENGTH TO SPECIFICATION AA10119 REV 15 (IS:2062 GRADE-E250) MATERIAL TEST CERTIFICATES COVERING ALL THE MECHANICAL AND CHEMICAL PROPERTIES STRICTLY AS PER SPECIFICATION SHALL BE FURNISHED ALONG WITH SUPPLY	15000	16500	13500
3	32 MMX50MM MILD STEEL FLAT IN 4 TO 6 MTR RANDOM LENGTH TO SPEC. AA10108 REV11(IS:2062 GRADE-E250)	32 MM X 50 MM MILD STEEL FLAT IN 4 TO 6 METER RANDOM LENGTH TO SPECIFICATION AA10108 REV 11 (IS:2062 GRADE-E250) MATERIAL TEST CERTIFICATES COVERING ALL THE MECHANICAL AND CHEMICAL PROPERTIES STRICTLY AS PER SPECIFICATION SHALL BE FURNISHED ALONG WITH SUPPLY.	15000	16500	13500
4	6MMX40MM BRIGHT STEEL FLAT IN RANDOM LENGTH OF 2.5TO4.5 METERS TO SPEC. AA10112 REV.07.	6 MM X 40 MM BRIGHT STEEL FLAT IN RANDOM LENGTH OF 2.5 TO 4.5 METERS TO SPEC. AA10112 REV.07. CLEAR TEMPORARY RUST PREVENTIVE (TRP) SHALL BE APPLIED ON THE FLATS TO AVOID RUST/CORROSION. MATERIAL TEST CERTIFICATES COVERING ALL THE MECHANICAL AND CHEMICAL PROPERTIES STRICTLY AS PER SPECIFICATION SHALL BE FURNISHED ALONG WITH SUPPLY.	5000	5500	4500

Quantity variation as per below:

Item-1, Supplies quantity are to be restricted between 16500 KG to 13500 KG

Item-2, Supplies quantity are to be restricted between 16500 KG to 13500 KG

Item-3, Supplies quantity are to be restricted between 16500 KG to 13500 KG

Item-4, Supplies quantity are to be restricted between 5500 KG to 4500 KG

Note: Quantities specified in GeM Bid are inclusive of +10% tolerance. However, BHEL's regularization PO shall be placed on Nominal Quantity as mentioned above with +/-10% Quantity Variation.

Item No.	Description	GeM Qty in KG	Delivery Period
1	32 MMX60 MM NORMALISED STEEL FLAT IN 4TO6 MTR RANDOM LENGTH TO SPEC AA10119 REV15(IS:2062 GRADE-E250)	16500	90 days from the date of GeM PO
2	25MMX50MM NORMALISED STEEL FLAT IN 4 TO 6 MTR RANDOM LENGTH TO SPEC AA10119 REV15(IS:2062 GRADE-E250)	16500	90 days from the date of GeM PO
3	32 MMX50MM MILD STEEL FLAT IN 4TO6 MTR RANDOM LENGTH TO SPEC. AA10108 REV11(IS:2062 GRADE-E250)	16500	90 days from the date of GeM PO
4	6MMX40MM BRIGHT STEEL FLAT IN RANDOM LENGTH OF 2.5TO4.5 METERS TO SPEC. AA10112 REV.07.	5500	90 days from the date of GeM PO

Pre-Qualification Requirements

S. No	Description of Pre-Qualification Required	Supporting Documents Required to accept Compliance	Vendor's Response Complied (Yes/No)
1	Offers are invited from mill as well as from trading houses. Bidders may be either Manufacturers or dealer / reseller / channel partner / distributor etc.	Self certification on company letter pad to be given by Bidders, whether they are Manufacturers or dealer / reseller / channel partner / distributor etc.	
2	Offers of those parties will be considered who or their manufacturer has supplied "Steel Flats" of similar kind in last 7 years from date of tender opening	Relevant PO copies along with proof of supply (invoice copy /SRV/ CRAC/ completion certificate) to be submitted.	
3	Bidders are requested to furnish Test certificates as per applicable BHEL Spec AA10119 Rev.15 (IS: 2062 Grade E-250)/ AA10108 Rev. 11 (IS: 2062 Grade E-250) / AA10112 Rev. 07.	Mill Test certificate to be submitted, OR Test certificate duly cleared by NABL approved Lab to be submitted, along with supply.	

Notes:

- Compliance to above Pre-qualification requirements are mandatory. In the absence of compliance of above requirement Bidder's Offer is liable to be rejected.
- Offers of vendors who are on BHEL MISCC/ unit/corporate level hold or banned/debarred, will not be considered.
- BHEL reserves the right to accept the offer in part or in full or cancel the tender enquiry without assigning any reason.
- BHEL has right to verify information / confirmation furnished by asking additional documents, proofs etc.
- All T&C shall be governed as per GeM Standard T&C. In case of discrepancies, T&C mentioned as above will be considered.

MAKE IN INDIA format (to be filled by OeMs of the participating bidders)

BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL

MATERIAL MANAGEMENT – STEEL DIVISION

For this Procurement, Government of India Public Procurement (Preference to Make in India), Order 2017 with its amendments and subsequent Orders issued by the respective nodal ministries shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT.

*As per the Provisions of this order, please submit **a self-certification complying with the conditions below on company letterhead duly signed by competent authority.***

I, hereby declare on behalf of M/s. that we are participating in the Enquiry No. floated by BHEL, Bhopal (MP), India and shall comply with following:

1. Public Procurement (Preference to Make in India), Order 2017 *with its amendments* and subsequent Orders issued by the respective nodal ministries shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT.

(a) A supplier will be treated as **“Class-I Local Suppliers”**, if the items quoted by bidder have local content equal to or more than 50%.

(b) **‘Local Content’** means the amount of value added in India, which shall be total value of item quoted (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, **in percent**.

2. I hereby declare that our firm qualifies as **“Class-I Local Suppliers”**.

a. The Local Content in the items quoted under this Enquiry is Percent

b. Details of location(s) in India where this value addition shall be done, is/are as follows:

- (a)
(b)
(c)

(.....)

For M/s.

(Seal & Sign)

Annexure-1
DECLARATION (To be given by Bidder)

GeM Bid No.....
Item Description:

With reference to above reference bid, we M/s..... (Bidder's Name)
confirm/declare the following.

1. Quoted Make-.....

2. We are OEM or Reseller -

3. Valid OEM Authorization certificate with OEM's Contact Details attached (In case of reseller)
- Yes / NA

4. We confirm Nil deviation from GeM bid document (NIT).

Note:

1. OEM details such as name, designation, address, e-mail Id and Phone number required to be furnished along with the technical bid. (also refer ATC clause).
2. Commercial Deviation/deviation in delivery shown separately or found hidden in the offer, will not be taken cognizance of.

(Vendor's Seal & Sign)



CORPORATE PURCHASING SPECIFICATION

AA10119

Rev No.15

PREFACE SHEET

STRUCTURAL STEEL - WELDABLE QUALITY (PLATES, SECTIONS, STRIPS, FLATS AND BARS)

FOR INTERNAL USE ONLY

REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS

Equivalent/Comparable Standards:

- 1) IS: 2062 – 2011 : Grade: E250- BR (With impact test)
- 2) DIN EN 10025-2:2005 : Grade: S275JR

Suggested/Probable Suppliers and Grades:

Refer Plant Vendors List

User Plants and Replaced Plant Specifications/References:

- 1) HEP, BHOPAL :
- 2) HEEP, HARDWAR :
- 3) HPEP, HYDERABAD :

Revisions:

Clause No. 1, 3, 5 & 8 revised (as per MOM of 38th MRC meeting), Clause 10 added

APPROVED:

INTERPLANT MATERIAL RATIONALISATION
COMMITTEE – MRC(S&GPS)

Rev No.15	Amd No.	Reaffirmed	Prepared	Issued	Dt. of 1 st Issue
Dt:11-03-2014	Dt:	Year:	HPEP, Hyderabad	Corp.R&D	June, 1976

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CORPORATE PURCHASING SPECIFICATION

AA10119

Rev No. 15

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STRUCTURAL STEEL - WELDABLE QUALITY (PLATES, SECTIONS, STRIPS, FLATS AND BARS)

ORDERING DESCRIPTION

1.0 GENERAL:

The material shall conform to IS 2062 – 2011, E250-Gr.BR (with mandatory Impact Test) or DIN EN 10025-2:2005, Gr. S275JR and comply with following additional requirements.

2.0 APPLICATION:

For general engineering purposes, suitable for welding.

3.0 CONDITION OF DELIVERY:

3.1 Bars & Sections shall be supplied in Hot rolled in straight lengths without twists and bends.

3.2 The material shall be supplied as per IS: 2062 – 2011, E250 Gr.BR (with mandatory Impact Test) or as per DIN EN 10025-2:2005 Gr. 275JR.

3.3 Any other additional requirement as per BHEL Purchase order.

4.0 DIMENSIONS AND TOLERANCES:

4.1 Sizes:

Material shall be supplied to the dimensions specified in BHEL Order.

4.2 Tolerances:

The tolerances on hot rolled material shall comply with IS: 1852 or any other equivalent national standard.

4.3 Straightness for hot rolled bars:

Unless otherwise specified, the permissible deviation in straightness shall not exceed 5 mm in any 1000 mm length.

5.0 TEST SAMPLES:

The selection of test pieces for all tests like Chemical, Mechanical etc. shall be as per IS: 2062, E250-Gr.BR or DIN EN 10025-2, Gr. S275JR.

Revisions:

Clause No. 1, 3, 5 & 8 revised (as per MOM of 38th MRC meeting), Clause 10 added

APPROVED:

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AA10119

Rev No. 15

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CORPORATE PURCHASING SPECIFICATION



6.0 ULTRASONIC EXAMINATION:

Plates shall be ultrasonically examined in accordance with BHEL standard AA0850120 (or ASTM-A435) as detailed below and shall comply with the acceptance standards specified therein.

6.1 For plates above 40 mm thick:

Shall be ultrasonically examined unless when otherwise specified in order.

7.0 TEST CERTIFICATES:

Unless otherwise specified, three copies of test certificates shall be supplied.

In addition, the supplier shall ensure to enclose one copy of the test certificate along with their dispatch documents to facilitate quick clearance of the material.

The test certificate shall bear the following information:

AA10119 - Rev.No.15/ IS: 2062-Gr: BR (with mandatory Impact test) or DIN EN 10025-2, Gr. S275JR,

BHEL order No.

Melt No, Size & Quantity, Batch No with heat treatment details, Results of Chemical analysis,

Mechanical tests & NDT, Supplier's name, Identification No, TC No, Signature of Competent Authority, etc.

8.0 PACKING AND MARKING:

Plates shall be transported suitably to avoid damage during transit.

Each plate shall be marked with Melt No. Material grade and specification, BHEL Order No, Supplier's Name Identification No, Size & weight, on any one corner and encircled with paint preferably of white colour.

9.0 REJECTION AND REPLACEMENT

If the material does not comply with the requirements of this specification during receipt inspection at BHEL or if any defect is found during further processing of material, BHEL reserves the right to reject the whole consignment and the supplier shall replace the material free of cost. The rejected material shall be taken back by the supplier after fulfilling the commercial terms and conditions.

10.0 REFERRED STANDARDS (Latest publications including amendments):

1) IS: 1852

2) ASTM - A435

3) AA0850120



CORPORATE PURCHASING SPECIFICATION

AA10108

Rev No.11

PREFACE SHEET

STRUCTURAL STEEL-STANDARD QUALITY (PLATES, SECTIONS, STRIPS, FLATS & BARS)

FOR INTERNAL USE ONLY

REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS

Equivalent/Comparable Standards:

- | | | |
|-------------|---|---------------------------------------|
| 1. INDIAN | : | IS : 2062 – 2011, Gr: E250, Quality A |
| 2. AMERICAN | : | ASTM A131M – 2013 |
| 3. JAPANESE | : | JIS G3106 – 2008 |
| 4. EUROPEAN | : | EN 10025 – 2:2004 Gr. S275JR |

Suggested/Probable Suppliers and Grades:

- | | | |
|--------------|---|------------------------|
| 1. M/S TISCO | : | TISTEN 42 |
| 2. M/S SAIL | : | i) MA 300 HY |
| | | ii) Lloyds, Gr :A |
| | | iii) IS : 2062, Gr : A |

User Plants and Replaced Plant Specifications/References:

- | | | |
|--------------------|---|-----------|
| 1. HEP, BHOPAL | : | PS 10108 |
| 2. TP, JHANSI | : | PS 10108 |
| 3. HEEP, HARDWAR | : | 0500.001 |
| 4. HPEP, HYDERABAD | : | HY0210299 |
| 5. HPBP, TIRUCHY | : | |

Revisions:

As per Cl. No. 38.1 of MOM of MRC-S&GPS

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Rev No.11

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CORPORATE PURCHASING SPECIFICATION

AA10108

Rev No. 11

PAGE 1 of 2

STRUCTURAL STEEL-STANDARD QUALITY

(PLATES, SECTIONS, STRIPS, FLATS & BARS)

(ORDERING DESCRIPTION)

1.0 GENERAL:

This specification governs the quality requirements of structural steel plates, strips, flats, bars and sections such as angles, beams, channels and tees etc. of IS: 2062 – 2011, Gr: E250, Quality A

2.0 APPLICATION:

For general engineering purpose.

3.0 CONDITION OF DELIVERY:

Plates, Bars & Sections: Hot rolled in straight lengths without twists & Bends

4.0 COMPLIANCE WITH NATIONAL STANDARDS:

Material shall comply with the requirements of IS: 2062 – 2011, Gr: E250, Quality A

Material offered to EN 10025-2:2004 Gr. S275JR is also acceptable. The tolerance on dimensions for plates shall comply with EN 10029.

5.0 DIMENSIONS AND TOLERANCES:

5.1 DIMENSIONS:

5.1.1 Sizes

Material shall be supplied to the dimensions specified on BHEL Order.

5.1.2 Length

Unless otherwise specified, hot rolled bars and sections shall be supplied in 3 to 6 metres length.

5.2 Tolerances:

5.2.1 The tolerances on hot rolled material shall comply with IS: 1852. However, no plate shall be under the specified thickness at any point.

Revisions:
As per Cl. No. 38.1 of MOM of MRC-S&GPS

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5.2.2 Straight for hot rolled bars:

Unless otherwise specified, the permissible deviation in straightness shall not exceed 5 mm in any 1000 mm length.

6.0 HARDNESS (BRINELL):

When tested in accordance with IS: 1500, the material shall show a brinell hardness in the range of 120-156 HB.

Note: Hardness test shall be conducted only when tensile test cannot be performed.

7.0 TEST CERTIFICATES:

Unless otherwise specified, three copies of test certificates shall be supplied.

In addition, the supplier shall ensure to enclose one copy of the test certificate along with their dispatch documents to facilitate quick clearance of the material.

The test certificate shall bear the following information.

AA10108 Rev.11 / IS:2062 Grade: E250 Quality A / EN 10025-2 Gr. S275JR,

BHEL order no., Melt no. Size, Results of chemical analysis and Mechanical tests, Supplier's name, Identification no. TC no., Signature of competent authority etc.

8.0 PACKING AND MARKING:

Plates shall be transported suitably to avoid damage during transit.

For plates below 10 mm thick, each pile (preferably of 16 plates) and each plate 10 mm thick & over shall be marked with melt no. AA10108, BHEL order no., Supplier's name, Identification no., Size & weight on any one corner and encircled with paint preferably of white colour.

9.0 REFERRED STANDARDS (Latest publications including amendments):

1) IS: 1500

2) IS: 1852

3) EN 10029



CORPORATE PURCHASING SPECIFICATION

AA10112

Rev No.07

PREFACE SHEET

BRIGHT STEEL BARS AND SECTIONS (STANDARD QUALITY)

FOR INTERNAL USE ONLY

REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS

Equivalent/Comparable Standards:

1) INDIAN : IS : 9550 – 2001

Probable / Suggested Suppliers and Grades:

Refer plant vendors list

User Plants and Replaced Plant Specifications/References:

1) HEP, BHOPAL : PS10112, BP10172
 2) HEEP, HARDWAR : 0500.053
 3) HPEP, HYDERABAD : HY0210299

Revisions:

CI 27.2.d of MOM of MRC-S&GPS

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CORPORATE PURCHASING SPECIFICATION

AA10112

Rev No. 07

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BRIGHT STEEL BARS AND SECTIONS (STANDARD QUALITY)

1 GENERAL:

This specification governs the quality requirements of Bright Steel Bars and Sections of standard quality, such as I-beams and equal angles required in very small sections.

2 APPLICATION:

Bars are used in the manufacture of threaded and machined components for general engineering purposes. Sections are used as stator spacer plate vents in generators.

3 CONDITION OF DELIVERY:

3.1 Round Bars - Class 4, surface quality.

Up to 50 mm diameter - Cold drawn.

Above 50mm diameter - Cold drawn or Hot rolled, turned and polished

3.2 Rectangular/Square/Hexagonal Bars - Class 3, surface quality.

All sizes - Cold drawn.

3.3 Sections - Class 4, surface quality.

All sizes - Cold drawn

3.4 Bars and sections shall be straight, with their ends sheared, square and true and shall have a smooth surface.

3.5 The bars and sections shall be given a clear temporary rust preventive (TRP) coating to avoid corrosion during transit and storage.

Black TRP coating is not acceptable.

Clear TRP used shall be free from pungent smell.

The following clear TRP's are suggested:

- Servo RP 150 - M/s Indian Oil Corporation
- HE - 1612 - M/s. BHEL, Bhopal
- Rustilo DW-901 - M/s. Indrol Lubricants and Specialties Ltd.
- Rustpro Special - M/s. Tide water oil co.
- Any other clear TRP conforming to IS: 1154

4 COMPLIANCE WITH NATIONAL STANDARDS:

The material shall comply with the requirements of the following National standards and also meet the requirements of this specification.

IS: 9550-2001 : Bright steel bars

Revisions:

CI 27.2.d of MOM of MRC-S&GPS

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COMMITTEE – MRC(S&GPS)

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AA10112

Rev No. 07

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CORPORATE PURCHASING SPECIFICATION**5 DIMENSIONS AND TOLERANCES:****5.1 Sizes:**

Bars shall be supplied to the dimensions specified in BHEL order.

5.2 Tolerances:**5.2.1 Rectangular/Square/Hexagonal/Flat Bars:**

Unless otherwise specified, tolerances on dimensions shall be as follows:

For drawn round bars and turned bars h10 to table 2 of IS:9550

For hexagonal and square drawn bars upto and including 80mm h11 and above 80mm h12 according to table 2 of IS:9550

For drawn flats in accordance with table 3 and 4 of IS:9550

For ground products in accordance with table 1 and 2 of IS:9550

5.2.2 Sections:

As specified in BHEL order/drawing.

5.3 Length:

Bar and sections shall be supplied in lengths of 2.5 to 4.5 meters with maximum 10% of shorts of not less than 1.5 meters.

5.4 Straightness:

Unless otherwise agreed to, the permissible deviation shall not exceed 1.5mm in any one meter length. Bars and sections shall be free from twists and bends.

6 MATERIAL:

The rolled bars used for purpose of producing the bright bars shall be such, so as to ensure freedom from segregation, piping and other harmful defects.

7 MANUFACTURE:

Steel shall be manufactured by the open-hearth, electric, basic oxygen or a combination of these processes.

8 FREEDOM FROM DEFECTS:

All finished steel bars and section shall be sound and free from internal and surface defects. They shall be bright and clean.

9 SURFACE CONDITION:**9.1 Round Bars and Sections:**

Shall be entirely free from cracks and other surface defects.

9.2 Rectangular/Square/Hexagonal Bar-Type '3' Finish:

Shall comply with IS: 9550, Class 3 of table 5.

10 CHEMICAL COMPOSITION:

The melt analysis of steel and the permissible variation in the composition of the material form the melt analysis shall be as follows:

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Element	Melt analysis percent, max	Permissible variation percent
Carbon	0.25	± 0.02
Sulphur	0.040	+ 0.005
Phosphorus	0.040	+ 0.005

11 TEST SAMPLES:

One sample for chemical and tensile test shall be selected from finished steel for every 20,000 kg or part thereof, with a minimum one per heat.

12 MECHANICAL PROPERTIES:

When tested in accordance with IS:1608, the test pieces shall show the following properties:

12.1 Rectangular/Square/Hexagonal/Section - Cold Drawn:

Tensile Strength : 440 N/mm², min

Elongation on $5.65\sqrt{S_0}$ gauge length : 8 – 20%

12.2 Round Bars:

12.2.1 Bars upto 50mm Diameter – Cold Drawn

Tensile Strength : 440 N/mm², min

Elongation on $5.65\sqrt{S_0}$ gauge length : 8 – 20%

12.2.2 Bars above 50mm Diameter:

Cold drawn or hot rolled, turned and polished.

Property	Hot rolled, turned and polished	Cold drawn
Tensile strength, min.	: 410 N/mm ²	440 N/mm ²
Elongation on $5.65\sqrt{S_0}$ gauge length	: 23%, min	OR 8-20%

13 TEST CERTIFICATES:

Three copies of test certificates shall be supplied, unless otherwise stated on the order.

In addition, to the above, the supplier shall ensure to enclose one copy of the test certificate along with their despatch documents to facilitate quick clearance of the material.

The test certificate shall bear the following information:

AA10112; Rev. No. 07 :

BHEL order No,

Supplier's Reference:

Name

Identification No.

Melt No.

Results of Tests:

Dimensional inspection.

Results of Chemical analysis and mechanical tests.

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14 PACKING AND MARKING

The material shall be suitably packed in bundles – polythene wrapped to prevent sagging, corrosion and damage during transit. A suitable clear temporary rust preventive shall be applied all the bars as per clause 3.5 above and finally dispatched in wooden boxes.

Each bar over 50mm shall be stamped at one end with 'AA10112'. Bars 50mm and below shall be bundle together and tied with wire at 3 to 4 places along the length of the bar.

A metal label shall be securely attached to each bundle and shall bear the following information:

- AA10112: BRIGHT STEEL BARS AND SECTIONS (STANDARD QUALITY)
- BHEL Order No.
- Consignment/Identification No.
- Melt No.
- Size and Weight.
- Supplier's Name.

15 REFERRED STANDARDS (Latest Publications Including Amendments):

- 1) IS: 1154
- 2) IS: 1608
- 3) IS: 9550