

		BHARAT HEAVY ELECTRICALS LIMITED (A Government of India Undertaking) Ramachandrapuram, Hyderabad, 502032, A.P. India Phone 040-23184526, 23182322 FAX:040-23021910, 1954			भारत हेवी इलेक्ट्रिकल्स लिमिटेड (भारत सरकार का उपक्रम) रामचन्द्रपुरम, हैदराबाद, 502032 आंध्र प्रदेश, भारत			RFQ NO :		Purchase Department Enquiry		SHEET:1 OF :1	
HY17001 C REV.NO.0		Phone 040-23182893 040-23182374			FAX : 091-40-23021910 091-40-23021954			PURCHASE DEPARTMENT					
		GSTIN:			Enq/Collective No :B5E1U31913			Enq.Dt. : 08.02.2021		No.Of Items :1			
Office Copy													
SL NO	Purchase Req.no	item no	Material Code, HSN No.	Specification - Ver	Description			Unit	Qty	Delivery	Schedule Qty		
1	5000031913	10	AA1230228047 76042930	AA12328, Rev5	AL ALLOY RND(ANLD) 400			KG	1,000.00	120 Days	1,000.00		
Special Remarks 1. Tender is published in GEM Portal. 2. Provide confirmation to specification AA12328 in technical Offer. 3. Pl confirm to Supply Qty tolerance as "+/- 10% of the ordered Quantity"													
								TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y BID TYPE : TWO PART			For and on-behalf of Bharat Heavy Electricals Limited. M Surendar Reddy Sr. Pruchase Officer / T&C		

SPECIAL CONTRACT CONDITIONS (SCC)

Sl. No	Terms & Conditions	Supplier confirmation	Deviations
1	Supplier shall submit Quality plan for BHEL approval after placement of the order in line with technical specifications.		Non Deviatable
2	Third party inspection by BHEL empaneled TPI and inspection charges to BHEL account. Inspections calls shall be raised by supplier in the below portal cqir.bhel.in or mail us at surendar@bhel.in & nagesht@bhel.in BHEL empaneled inspection agencies as below (i) M/s.TUV SUD (ii) M/s.Bureau veritas India pvt Ltd		Non Deviatable
3	All items are to be supplied in line with BHEL specification. Deviation, if any shall be brought out clearly in the technical offer.		To be Specified
4	All the original documents like CQIR report, Test Certificates, IBRs (if any), in line with Quality plan and signed by TPI must be submitted before dispatch of materials to surendar@bhel.in and originals must be submitted along with the materials.		Non Deviatable
5	Unless otherwise specified, guarantee period shall be 12 months from the date of commissioning or 18 months from the date of supply/replacement whichever is earlier. A guarantee period as described above shall apply afresh to replaced, repaired or re-executed parts of a delivery.		Non Deviatable

Date:

Signature of the supplier with seal

Pre Qualification Criteria for the procurement of Aluminium alloy Round Dia 400mm			
Sl. No.	Pre Qualification Criteria	Supplier confirmance	Remarks
1	Offers to be submitted by manufacturer or their subsidiaries (own stockists) will only be considered. Offers from traders will be considered only if the original manufacturer details along with the experience as required in cl 2.0 below is submitted, along with the tieup letter prior to enquiry date.		
2	Past experience data as given below shall be submitted:		
2.1	At least three copy of the mill/manufacturer test certificates for the same or similar grade material in the range of 250 to 500 mm diameters that are supplied by them to other customers shall be submitted along the offer.The MTC shall necessarily indicate/mention the manufacturer location/ address.		
2.2	The date of the issue of “Test certificate” shall not be older than 3 years from the NIT date.		
2.3	The mill test certificate shall include the results / reports for all the tests like Chemical, Mechanical, Heat treatment charts etc..., as required by BHEL specification applicable to the present enquiry.		
2.4	This compliance may be met through MTCs submitted against a single customer order or multiple customer orders.		
3	Vendors to conform that they will meet all the requirements of BHEL specification provided with the enquiry. Clause wise conformation to be given with offer.		
4	BHEL reserves the right to retest the material before dispatch clearance.		
Note: The conditions that are laid are prepared keeping in view of the requirement in relation to the procurement of Aluminium rounds of dia upto 400 mm.			



CORPORATE PURCHASE SPECIFICATION

AA 123 28

Rev. No. 05

PREFACE SHEET

WROUGHT ALUMINIUM ALLOY BARS AND RODS Gr. 2014 (O), (ANNEALED)

FOR INTERNAL USE ONLY
REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS

Comparable Standards:

1. AMERICAN : ASTM B 221 – 2008

Suggested/Probable suppliers and grades:

Refer plant vendor list

User Plant References:

1. HYDERABAD : A VIONAL –14 and HY 19999

Revisions :

Cl: 24.1 of MOM of MRC-NFCW+HE

APPROVED :

INTERPLANT MATERIAL RATIONALISATION
COMMITTEE -MRC (NFCW+HE)

Rev. No. 05

Amd.No.

Reaffirmed

Prepared
HARDWAR

Issued
Corp. R&D

Dt. of 1st Issue
MARCH, 1978

Dt: 07.06.2012

Dt :

Year :



CORPORATE PURCHASING SPECIFICATION

AA 123 28

Rev. No. 05

PAGE 1 OF 3

WROUGHT ALUMINIUM ALLOY BARS AND RODS Gr: 2014 (O)

1.0 GENERAL:

This specification governs the quality requirements of aluminum – copper alloy bars and rods.

2.0 APPLICATION:

Seal rings and as forging stock for coil braces.

3.0 CONDITION OF DELIVERY: Annealed.

4.0 COMPLIANCE WITH NATIONAL STANDARDS:

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

ASTM B 221-2008: Standard specification for Aluminum and Aluminum Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

5.0 DIMENSIONS AND TOLERANCES:

5.1 Sizes: The material shall be supplied as per the dimensions specified in BHEL order.

5.2 Tolerance: Shall be as per ASTM B-221:

Revisions :

Cl: 24.1 of MOM of MRC-NFCW+HE

APPROVED :

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PAGE 2 OF 3

6.0 MANUFACTURE:

The method of manufacture of the material shall be produced by hot extrusion or any other suitable process and subsequently annealed.

7.0 FREEDOM FROM DEFECTS:

The material shall be clean, smooth and free from fins, spills, porosity, cracks or other defects and shall be reasonably straight and free from twists.

The permissible limit of coarse grain envelope shall be as mutually agreed.

8.0 CHEMICAL COMPOSITION:

The chemical composition of the material, when analysed in accordance with IS: 504 (Methods of chemical analysis of aluminum alloys and its alloys) or any other conventional/instrumental method shall be as follows:-

Element	Percent	
	min.	max.
Copper	3.9	5.0
Silicon	0.5	1.2
Manganese	0.4	1.2
Magnesium	0.2	0.8
* Iron	--	0.7
* Zinc	--	0.25
* Chromium	--	0.10
* Titanium	--	0.15
Total elements	--	0.15
Alluminium	Remainder	

***Note:** The elements need be determined only when the material supplied conforms with the mechanical properties specified in this specification. However, the supplier shall ensure that the composition of the material lies within the limits specified above.

9.0 TEST SAMPLES:

9.1 Bars or rods manufactured under similar conditions shall be grouped into lots as follows:

Diameter or equivalent cross section, mm		Weight of each lot in kg.
Over	Upto and including	
--	10	1000
10	--	2000

9.2 One test sample shall be cut from a bar or rod selected at random from each lot.

CORPORATE PURCHASING SPECIFICATION



10.0 MECHANICAL PROPERTIES:

The material when tested in accordance with IS:1608 or any other reputed national standard shall show the following tensile properties:

Tensile strength, MPa, max.	: 205
0.2 % Proof Stress, MPa, max.	: 125
% of elongation in 5 x dia (5.65√A) , min.	: 10
% of elongation in 4 x dia (50mm G.L.), min.	: 12

11.0 RETEST:

Should any of the test pieces first selected, fail to pass the prescribed tests mentioned under various clauses in this specification, two further samples from the same batch shall be selected for testing, one of which shall be from the same component from which the original test sample was taken, unless that component has been withdrawn by the supplier.

Should the test pieces from the both these additional samples pass, the batch represented by the test samples shall be accepted. Should the test pieces from either of these additional samples fail, the batch represented by the test sample shall be rejected.

12.0 TEST CERTIFICATES:

The supplier shall submit three copies of test certificates alongwith the each consignment.

In addition, 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:

AA 12328, Rev No. 05: Wrought aluminum alloy Bars and rods - Gr. 2014 (O).

BHEL order No.

Supplier's reference and Name

Batch No.

Consignment/Identification No.

Results of chemical analysis, mechanical and all other tests as called for in this specification/order

13.0 PACKING AND MARKING:

The material shall be suitably packed in wooden crates to prevent corrosion and damage during transit. Each package or crate shall be legibly marked with the following information.

AA123 28: Wrought aluminum alloy Bars and rods - Gr. 2014 (O)

BHEL order No.

Batch No.

Identification Mark/No

Weight.

Supplier's reference and Name.

14.0 REFERRED STANDARDS (Latest Publications Including Amendments):

1) IS: 504

2) IS: 1608

3) ASTM B 221