

Enquiry items along with quantities:

It. no	Size & Item description	Technical requirement	Quantity in kg
1	50 mm dia X 2000 mm – 6000 mm LG	Cold / Hot rolled solution annealed, stainless steel bar as per BHEL specification AA10725 rev07 & as per QA plan QA/HT/1045 Rev00	2200
TOTAL			2200 kg

Supplies quantity are to be restricted between 2200 kg & 1800 kg

Pre-qualification criteria:

S. No.	Description of pre-qualification requirement	Vendor Response	
		Complied/ Not complied	Supporting Documents required to accept compliance
1	Manufacturer of steel round bar / their authorized representative	YES / NO	Relevant certificate of being manufacturer (for manufacturer not registered with BHEL) / authorization letter with validity (for authorized representative). Firm name and address from whom bars is intended to be supplied to be furnished.
2	Vendor should have experience of manufacturing, material testing & supplying stainless steel round bar during last 7 years (ending last day of month previous to the one in which tender is published).	YES / NO	Purchase order, mill test certificate. In case of authorized dealers, relevant documents of their OEM is also considered.
3	Company shall be certified with ISO 9001 or equivalent. In case of authorized representative, valid ISO certificate of manufacturer is required.	YES / NO	Valid certificate to be submitted.
4	Vendor should furnish any 3 years' audited balance sheet of last 7 financial years. FY ending 2019 – 20.	YES / NO	Audited profit and loss statement.

Note:

1. BHEL has right to verify information / confirmation furnished by asking additional documents, proof etc.

ALL THE ABOVE POINT WISE PRE-QUALIFICATION REQUIREMENT ARE TO BE NECESSARILY ACCEPTED BY THE BIDDERS FOR THEIR OFFERS TO BE CONSIDERED FAILING WHICH OFFERS SHALL BE REJECTED.

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)

BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL
QA-HYDRO
STANDARD QUALITY ASSURANCE PLAN FOR BAR MATERIAL

QAP NO. : QA/HT/1045 Rev.00 Dated :- 16.05.2018
 SPECIFICATION : AA 10725 Rev. 07 (Stainless Steel Bars-Austenitic, Ti stabilized; Solution Annealed)
 SUPPLY CONDITION : Cold / Hot Rolled and Solution Annealed

1	2	3	4	5	6	7	8	9	10	11	12	
SL. NO	STAGE	CHARACTERSTIC	METHOD	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	P	V	W	REMARKS	
1	Raw Material	Chemical	Chemical test	1 Sample / Heat	AA 10725 Rev. 07	AA 10725 Rev. 07	Mill Test Certificate	1	2	-	-	
2	Heat Treatment	Solution annealed	Solution annealed	1 Sample / Heat & H.T. Batch	AA 10725 Rev. 07	AA 10725 Rev. 07	H.T. Chart	1	2	-	-	
3	Final Stage	Stamping on test bar for mechanical Testing	Hard Stamp by TPIA	-do-	-do-	-do-	Stage Inspection Report	1	-	2	Test Piece duly stamped by TPIA	
		Mechanical Properties	i) Tensile Test	As Specified in AA 10725 Rev. 07	-do-	-do-	-do-	Supplier's Test Certificate	1	-	2	In case of traders witness by TPIA to be conducted at NABL approved Lab.
			ii) % RA	-do-	-do-	-do-	-do-	Supplier's Test Certificate	1	-	2	
			iii) Yield strength	-do-	-do-	-do-	-do-	Supplier's Test Certificate	1	-	2	
			iv) % Elongation	-do-	-do-	-do-	-do-	Supplier's Test Certificate	1	-	2	
		Chemical Composition	Chemical test	1 sample / Heat	-do-	-do-	Supplier's Test Certificate	1	-	2		
		Visual Examination	Visual	100%	-do-	Bars shall be free from surface defects, bends & twists	Supplier's Dimensional Report	1	-	2		
Dimension & Tolerance	Measurement	100%	IS: 3739-1987	Table 1 Grade 2	-do-	1	-	2				
4	Dispatch	Identification Marking	Hard Stamping	100%	AA 10725 Rev. 07	AA 10725 Rev. 07	1. Heat No. 2. P.O. No. 3. Spec No. 4. Size 5. Supplier's Name	1	-	2	Identification & marking shall be done on face of each bar & TPIA hard stamp to be done on both face of each bar.	
5	Document submission duly certified by TPIA	1) Mill test certificate (Mechanical & Chemical) 2) Supplier Test certificate (Mechanical & Chemical) 3) Dimensional Inspection report. 4) Heat Treatment chart										

Note : Final Testing of Material will be done at BHEL Bhopal works before clearance of SRV.

1 = Manufacturer / Trader
 2 = BHEL / BHEL'S TPIA

Asdhar
 16/05/18
 आचार्य शर्मा / ADHAR SHARMA, Sr. Engineer / Sr. E. in Charge / Quality Control / BHEL, BHOPAL
 वरिष्ठ अभियंता (सूक्ष्म उद्योग) / Sr. Engineer / Sr. E. in Charge / Quality Control / BHEL, BHOPAL
 गुणता नियंत्रण-जल दरवाजा / BHEL, BHOPAL

H.T.E
 16/05/18
 शिवेंद्र कुमार / Shivendra Kumar, Sr. Manager / Sr. Manager / H.T.E. DIVISION / BHEL, BHOPAL
 वरिष्ठ प्रबंधक / Sr. Manager / H.T.E. DIVISION / BHEL, BHOPAL

WTM
 16/5/18
 महेश कुमार सोनी / MAHENDRA SONI, Dy. Manager (Production) / Dy. Manager (Production) / WTM Division / BHEL, BHOPAL
 वरिष्ठ प्रबंधक (उत्पादन) / Dy. Manager (Production) / WTM Division / BHEL, BHOPAL

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CORPORATE PURCHASING SPECIFICATION



7 PACKING AND MARKING:

Bars shall be suitably oiled and packed in boxes to prevent corrosion and damage during transit.

Each bar and flat over 50mm in diameter or width across flats shall be stamped with 'AA10725 Rev 07(ASTM A276M, Type 321)', melt No., BHEL order No., at one end or on the end face.

Bars bar/flat upto and including 50mm in dia./width across flats shall be bundled together and tied with wire at 3 to 4 places along the length of the bars.

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

- AA10725 Rev 07 - Solution Annealed (ASTM A276M, Type 321)
- BHEL Order No.
- Consignment/Identification No.
- Melt No.
- Size and Weight.
- Supplier's Name.

FOR INFORMATION ONLY

CHEMICAL COMPOSITION

C	Si	Mn	Ni	Cr	S	P	Ti
≤ 0.08	≤ 1.0	≤ 2.0	9.0-12.0	17.0-19.0	≤ 0.030	≤ 0.045	5X(C+N)-0.70

Nitrogen content is to be reported for this grade.

MECHANICAL PROPERTIES

Hardness Max		0.2% PS min N/mm ²	UTS min N/mm ²	% El min	% Ra
HBS	HRC				
----	----	205	515	40	50

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CORPORATE PURCHASING SPECIFICATION

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STAINLESS STEEL BARS (AUSTENITIC, Ti STABILIZED) SOLUTION ANNEALED (ASTM A 276M, TYPE 321)

(ORDERING DESCRIPTION)

1 GENERAL:

This specification governs the quality requirements of Stainless Steel Bars (Austenitic, Ti Stabilized), Solution Annealed to the latest version of ASTM A276M, Type 321 and comply with the following additional requirements.

2 APPLICATION:

For application requiring acid, corrosion, heat resistance and weldability.

3 CONDITION OF DELIVERY:

Cold / Hot rolled and solution annealed. Above 100mm size, forged bars are acceptable. The ends of bars shall be square and true. The bars shall be supplied in straight lengths.

4 DIMENSIONS AND TOLERANCES:

Bars shall be supplied to the dimensions specified on BHEL order. The tolerances on length, twist and straightness shall be as per ASTM A484M

5 CHEMICAL COMPOSITION:

As per ASTM A276M, Type 321.

6 TEST CERTIFICATES:

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

BHEL References:

AA10725-Rev. No.07 (ASTM A 276M, Type 321)

BHEL order No,

Supplier's References:

Name

Identification No.

Melt No.

Details of heat treatment.

Result of Tests:

Dimensional inspection.

Results of chemical analysis, mechanical tests

Revisions:

Cl. 32.6.5 of MOM of MRC-S&GPS

APPROVED:

INTERPLANT MATERIAL RATIONALISATION COMMITTEE – MRC(S&GPS)

Rev No.07

Amd No.

Reaffirmed

Prepared
HEEP, Haridwar

Issued
Corp.R&D

Dt. of 1st Issue
June 1978

Dt:01-07-2008

Dt:

Year:2019

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