

Enquiry items along with quantities:

Item. No.	Size & Item description	Technical requirement	Quantity in Meter (maximum)
1	15 NB (21.8 mm OD X 2.65 mm thk) X 4000 mm - 7000 mm LG.	ERW pipe plain ends to BHEL material specification AA10152 Rev07. Rust preventive coating of varnish to be applied throughout the length. Material test certificate covering all the chemical and mechanical properties to be furnished along with supply. QA Plan No.: QAP/TSD/FMS/10152 Rev02 is applicable. All other details as per BHEL Specification AA10152 Rev07.	550
2	25 NB (34.2 mm OD X 3.26 mm thk) X 4000 mm - 7000 mm LG.		1100
3	50 NB (60.8 mm OD X 3.65 mm thk) X 4000 mm - 7000 mm LG.		1100
4	80 NB (89.5 mm OD X 4.05 mm thk) X 4000 mm - 7000 mm LG.		1100
5	100 NB (115 mm OD X 4.50 mm thk) X 4000 mm - 7000 mm LG.		550
TOTAL			4400 meters

Quantity variation as per below:

Item 1 - Supplies quantity are to be restricted between 550 meter & 450 meter.

Item 2 - Supplies quantity are to be restricted between 1100 meter & 900 meter.

Item 3 - Supplies quantity are to be restricted between 1100 meter & 900 meter.

Item 4 - Supplies quantity are to be restricted between 1100 meter & 900 meter.

Item 5 - Supplies quantity are to be restricted between 550 meter & 450 meter.

Pre-qualification criteria:

Sl. No.	Description of pre-qualification requirement	Vendor Response	
		Complied (YES/NO)	Supporting Documents required to accept compliance
1	Make of pipe should be from approved source of M/s PGCIL for pipes viz. M/s Jindal Metal Tubes Pvt. Ltd., M/s Surya Roshni Limited, M/s Maharashtra Seamless Limited and M/s Ajanta are only acceptable. Reseller offering pipes of PGCIL approved makes are also acceptable.		Relevant certificate of being manufacturer / declaration of OEM / declaration on company letterhead. Firm name, contact details, address and email from whom pipes intended to supply to be furnished.

Note-

- Any other make approved by Powergrid (M/s PGCIL) and valid on the tender due date may also be considered. The bidder should submit a copy of the Powergrid approval letter for the OEM/make not appearing in the Powergrid compendium of vendors for the 765 KV class.
- BHEL has right to verify information / confirmation furnished, by asking additional documents, proofs 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.

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.

Signature of Authorized Signatory

Name:

Designation:

Stamp / Seal of Firm

Annexure-2

Declaration Regarding MSE Category

(to be given by Bidder)

In pursuant to the Public Procurement Policy for MSEs Order, 2012, I/We declare(s) that My/Our firm is(are) falling under the following MSE category and I/we shall submit documentary evidence/ Govt. Certificate etc. (UDYAM certificate) in support of the same along with the techno-commercial offer.

Type under MSE	SC Owned	ST Owned	Women Owned	Others (excluding SC/ST & Women Owned)
Micro				
Small				

(√ Tick whichever is applicable)

Note: If the bidder does not furnish the above in the tender, offer shall be processed construing that the bidder is not falling under MSE category.

Signature of Authorized Signatory

Name:

Designation:

Stamp / Seal of Firm

Annexure-3

Declaration Regarding Conflict of Interest (to be given by Bidder)

Conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations:

- 1) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly.
- 2) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating.
- 3) Procurement of goods directly from the manufacturers/ suppliers shall be preferred. However, if the OEM/ Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/ supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorised distributor (with/ or without the OEM). from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.
- 4) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.

I/We declares that I/We have read and understood the above aspects, and confirms that such conflict of interest does not exist and undertakes that I/We will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, I am /We are, found having indulged in above activities, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines.

Signature of Authorized Signatory

Name:

Designation:

Stamp / Seal of Firm

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:

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**.

We hereby certify that the quoted items offered by us against above Enquiry No. is having local content of..... %

Further, to certify that the local content % certified above is in line with definition of Local content given in point no 2 of Public Procurement (Preference to Make in India), Order 2017 dated 19.07.2024 and we qualify as Class —I. (Class-I/ CLASS-II/Non-Local supplier-fill in one which is applicable) local supplier. It is also certified that Repackaging/ Refurbishment/ Rebranding of imported products and the license fees/royalties paid/ technical charges paid out of India are not considered for calculation of local content and there is no such locally-sourced imported items.

The above declaration does not include services such as transportation, insurance, installation, commissioning, training and after sales service support like AME/CMC etc. as local value addition. We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1) (i) (h) of the General Finance Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Finance Rules along with such other actions as may be permissible under law.

We further confirm that details of location(s) in India at which the local value addition is made will be at

- a.
- b.

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief and I undertake to inform you of any changes therein, immediately. In case any of the above information is found to be false or untrue or misleading or misrepresenting, I am aware that I may be held liable for it.

(.....)

For M/s.

(Seal & Sign)

STANDARD QUALITY PLAN

QAP NO:		QAP/TSD/FMS/10152		REV.02	Date: 24/05/2018				
CUSTOMER:		BHEL BHOPAL			VENDOR NAME:				
DESCRIPTION MATERIALS:		STEEL TUBES - ELECTRIC RESISTANCE WELDED/SUBMERGED ARC WELDED							
SPECIFICATION		AA10152		Rev. No.	07				
P.I./ENQ.NO. /P.O. NO.					Date:				
Sr. No.	Characteristics	Class	Quantum of check	Reference Document	Acceptance Norm	Type of record	Inspection By		Remarks
							Vendor / Manufacturer	TPI	
01	Visual Check	Maj	100%	AA10152	As per Spec	Test Report	100% (P)	10% (W)	
02	Dimensional Inspection (Measurement)	Maj.	As per Spec	AA10152	As per Spec	Dimensional Report	P (SAS)	W (RS)	
03	Marking On Pipes (Visual)	Maj.	100%	AA10152	As per Spec	Test Report	100% (P)	W (RS)	
04	Mill Test Certificate (Document)	Maj	100%	AA10152	As per Spec	MTC	RR	RR	
05	Mechanical properties: (Tensile, Elongation, Flattening & Bend) As applicable	Maj	As per Spec/IS: 1239 P-I	AA10152	As per Spec	Test Report	P(SAS)	W(RS)	
06	Chemical Properties (Chemical composition)	Maj	As per Spec/IS:1239 P-I	AA10152	As per Spec	Test Report	P(SAS)	W(RS)	
07	Hydro Static Test: Hydraulic Test/Eddy Current Test	Maj	100%	AA10152	(As per Spec /IS:1239 P-I)	MTC	100% (P)	RR	

Legends: Maj = Major, MTC=Mill Test Certificate, P=Perform, W=Witness, SAS= Sampling as per Specification, RR= Record Review, RS = Random Sample, Test Report = Vendor Test Report.

Prepared By

[Signature]

विनय बघेल / VINAY BAGHEL

प्रबंधक / Manager

एच. टी. सी. विभाग / FTM Division

बी.एच.ई.एल., भोपाल / BHEL, BHOPAL

24/5/18
जी. एस. नेटम / G. S. NETAM
उप प्रबंधक (त.से.) / Dy. Manager (T.S.)
तकनीकी सेवा विभाग / Tech. Services Deptt.
बी.एच.ई.एल., भोपाल / BHEL, BHOPAL



CORPORATE PURCHASING SPECIFICATION

AA10152

Rev No. 07

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STEEL TUBES – ELECTRIC RESISTANCE WELDED / SUBMERGED ARC WELDED

1.0 GENERAL:

This specification governs the quality requirements of light, medium and heavy grades of Electric Resistance Welded/Submerged Arc Welded steel tubes with plain ends in ungalvanized and galvanized condition in the range of 60mm to 150mm NB.

2.0 APPLICATION:

For general purpose, suitable for bending, welding and screwing for flanges and fittings. Not suitable for steam services.

3.0 CONDITION OF DELIVERY:

Tubes shall be supplied with plain ends.

The ends shall be cut cleanly and square with the axis of the tube.

Unless otherwise specified, tubes shall be supplied in ungalvanized condition.

4.0 COMPLIANCE WITH NATIONAL STANDARDS:

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

IS: 1239(part 1) – 2004: Steel Tubes, Tubular and other Wrought Steel Fittings
Gr: ERW.

5.0 DIMENSIONS AND TOLERANCES:

5.1 Sizes:

BHEL order shall clearly state the maximum outside diameter, and wall thickness of the tube.

5.2 Tolerances:

5.2.1 Thickness:

Light tubes	+ not limited – 8 percent
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Medium and Heavy tubes	+ not limited – 10 percent
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Revisions:

Corrected the Clause 11.4 in line with IS 1239 (Part 1)

APPROVED:

INTERPLANT MATERIAL RATIONALISATION
COMMITTEE – MRC(S&GPS)

Rev No.07

Amd No.

Reaffirmed

Prepared

Issued

Dt. of 1st Issue

Dt:05-01-2015

Dt:

Year:2020

HEP, Bhopal

Corp.R&D

July, 1976

CORPORATE PURCHASING SPECIFICATION



5.2.2 Weight:

Single tube (light series)	+ 10 percent - 8 percent
Single tube (medium and heavy series)	± 10 percent
For quantities per load of 10 tonnes, min (light series)	+ 7.5 percent - 5 percent
For quantities per load of 10 tonnes, min (medium and heavy series)	± 7.5 percent

5.2.3 Internal Weld Fin:

Height of the internal weld fin shall not be greater than 60 percent of the specified thickness.

5.2.4 Length:

5.2.4.1 Random Length:

Tubes shall be supplied in random lengths of 4 to 7 meters, unless otherwise specified and in the line with IS: 1239, Part 1.

5.2.4.2 Exact Length:

When exact lengths are called for, the tolerances shall be + 6 mm, - 0 mm of the specified length.

6.0 MANUFACTURE:

Tubes shall be made from tested quality steel manufactured by any approved process and shall be fully killed.

Tubes shall not be manually welded.

7.0 FREEDOM FOR DEFECTS:

Tubes shall be cleanly finished and reasonably free from injurious defects. They shall be reasonably straight. The ends shall be cut cleanly and reasonably square with the axis of the tube.

8.0 CHEMICAL COMPOSITION:

The melt analysis of steel shall be as follows:

Element	Percent max.	Permissible variation over specified limit, ± max
Carbon	0.20	0.02
Manganese	1.30	0.04
Sulphur	0.040	0.005
Phosphorus	0.040	0.005

9.0 GALVANIZING:

When galvanized tubes are ordered, the Zinc coating on the tubes shall be in accordance with IS: 4736



CORPORATE PURCHASING SPECIFICATION

AA10152

Rev No.07

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10.0 TEST SAMPLES:

All tubes bearing the same designation and manufactured under a single process shall be grouped together to constitute a lot. Each lot shall be sampled separately in accordance with IS: 4711

11.0 MECHANICAL PROPERTIES:

11.1 Tensile:

The tensile strength of strips cut from selected tubes, when tested in accordance with IS: 1608 shall be as follows:

Tensile strength : 320 N/mm², min.

Elongations on $5.65\sqrt{S_0}$ gauge length:

Up to and including 25 mm NB : 12 percent, min.

Over 25 mm up to including 150 mm NB : 20 percent, min.

Note:

1. For welded tubes, the strip tensile test specimen shall not contain the weld.
2. For galvanized tubes, zinc coating may be removed by stripping prior to tensile test.

11.2 Bend Test (On tubes up to and including 50mm nominal bore):

When tested in accordance with IS: 2329, the tubes shall be capable of withstanding the bend test without showing any signs of fracture or failure.

Tubes shall be bent with the weld at 90° to the plane of bending. The tubes shall not be filled for this test.

Ungalvanized tubes shall be capable of being bent cold without cracking, through 180° around a former having a radius at the bottom of groove in the plane of bending equal to at least six times the outside diameter of the tube.

Galvanized tubes shall be capable of being bent cold without cracking of the steel, through 90° round a former having a radius at the bottom of the groove equal to at least eight times the outside diameter of the tube.

11.3 Flattening Test (On tubes above 50mm nominal bore):

Rings not less than 40mm in length, cut from the end of each selected tubes shall be flattened between parallel plates with the weld at 90° (point of maximum bending) in accordance with IS: 2328. No opening shall occur by fracture in the weld until the distance between the plates is less than 75 percent of the original outside diameter of the tube and no cracks or breaks on the metal elsewhere than in the weld shall occur until the distance between the plates is less than 60 percent of the original outside diameter.

Test rings may have the inner and outer edges rounded.

11.4 Hydraulic Test / Eddy Current Test:

Each tube shall withstand a test pressure of 5 N/mm² without showing leakage defects of any kind. The pressure shall be applied and maintained for a minimum period of 3 seconds for proof and inspection.

Note: Eddy current test may be done in place of Hydrostatic test as per the procedure in Annexure – B of IS: 1239, Part-1.

**CORPORATE PURCHASING
SPECIFICATION****12.0 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 dispatch documents to facilitate quick clearance of the material.

The test certificate shall bear the following information:

AA10152: Rev. No.07: Steel Tubes – ERW/SAW

BHEL order No:

Supplier's Reference:

Name

Identification No.

Melt No.

Results of Tests:

Results of Chemical, Mechanical tests and Hydraulic/Eddy Current test.

13.0 PROTECTIVE COATING:

The tubes shall be protected with a rust preventive coating of varnish, externally throughout the length.

14.0 PACKING AND MARKING:

Each tube shall be plugged at both ends by means of tight fitting end caps.

The tubes shall be suitably packed in bundles/packages to prevent corrosion and damage during transit.

Each bundle/package shall bear the following information:

AA10152: Steel Tubes – ERW/SAW

BHEL Order No.

Consignment/Identification No.

Outside Diameter and Wall Thickness.

Supplier's Name

15.0 REFERRED STANDARDS (Latest Publications Including Amendments):

1) IS: 1608

2) IS: 2328

3) IS: 2329

4) IS: 4736

5) IS: 4711