

BHEL :: BAP :: RANIPET

PURCHASE DEPARTMENT

ANNEXURE-A TO OPEN TENDER

Tenders are invited from prospective manufacturers/suppliers for supply of **Seamless Steel(SS) Pipes** as per Scope, Size, Specification, Standards and Quantities as listed below.

SNO	Material Description Seamless Steel(SS) Pipes	Applicable TDC	MATERIAL SPECIFICATION	QTY Number(UoM)	DELIVERY PERIOD
1	SS PIPE ID CONTROLLED 745(OD)x615(ID)x6370(Length)mm	TDC RTF 303/Rev 06	16MO3	4	Within 75 Days from PO
2	SS PIPE ID CONTROLLED 560(OD)x480(ID)x5200(Length)mm		P235 TR 2 / ST 37	1	Within 60 Days from PO
3	SS PIPE ID CONTROLLED 323.9(OD)x273.9(ID)x5500(Length)mm		P235 TR 2 / ST 37	1	Within 60 Days from PO
4	SS PIPE ID CONTROLLED 368(OD)x288(ID)x3400(Length)mm		P235 TR 2 / ST 37	1	Within 60 Days from PO
5	SS PIPE ID CONTROLLED 298.7(OD)x266.7(ID)x4800(Length)mm		P235 TR 2 / ST 37	1	Within 60 Days from PO
6	SS PIPE ID CONTROLLED 273(OD)x22.2(Thickness)x4000(Length)mm		SA 335 P12	4	Within 60 Days from PO

1. Only Indigenous Sources will be eligible to bid.

Financial PQR - Balance Sheet and P&L for last 03 Financial years to be submitted.

Minimum Average Annual Turnover of the bidder (For 3 Years) to be as per value & clause mentioned in GeM Bid.


2. The Bidder has to quote the final Price on **per Number basis** inclusive of Packing, Forwarding, taxes(**GST@18% applicable**), duties, freight , insurance and all other applicable charges.

3. Quantity Tolerance is not applicable.Exact number of pipe/s against each Line Item/Schedule to be ensured.

4. Delivery Terms: F.O.R. DESTINATION (Destination: BHEL Stores, Ranipet).

5. Signed & sealed copy of Annexure-A and other documents required to meet technical & Financial PQR should be submitted along with the offer.

6. Dispatch clearance to be obtained from BHEL before dispatching the material.

	Technical Delivery Condition (TDC) FOR SEAMLESS STEEL PIPES	Doc Ref:	TDC:RTF:303
		Rev No.	06
		Date:	05.08.2013
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1.0 SCOPE

1.1. This TDC specifies the requirements for supply of seamless steel pipes for use as fan shafts.

1.2. Steel grades covered are:

- a) P235TR2 of EN 10216-1
- b) SA 106 Gr B/C
- c) 13 Cr Mo4-5 of EN 10216-2
- d) 16 M03 of EN 10216-2
- e) SA 335 P12 and P22


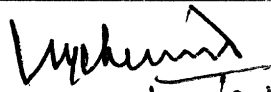
2.0 Chemistry and mechanical properties


2.1. Chemistry shall be as per specification.

2.2. Mechanical properties and heat treatment required shall be as per following table and acceptance norm is as per respective specifications.

Material	Heat Treatment Condition	Mechanical Properties at room Temp.	Additional mechanical properties	Remarks
*P235TR2 of EN 10216-1	Normalized or normalizing formed	Tensile, yield, % elongation	--	Old designation St 37
SA 106 Gr B/C	Normalizing	Tensile, yield, % elongation	--	--
*16M03 of EN 10216-2	Normalized or normalizing formed	Tensile, yield, % elongation and impact at + 20°C	Yield strength at 450°C	Old designation 15 M03
*13Cr M04-5 of EN 10216-2	Normalizing/ Hardening and tempering	-do-	-do-	Old designation 13 Cr Mo44
SA 335 P12 & SA 335 P22	Normalizing and tempering	Tensile, yield, % elongation	--	--

*Note: Mechanical properties for the tube thickness above 60 mm shall be same as that of 60 mm thick tube.

Prepared By	Reviewed By	Signature	Approved By
	Engineering (fans)	<i>[Signature]</i> 5.8.13	 12/08/2013
	QC (Proc)	<i>[Signature]</i> 10/8/13	
	Material Planning	<i>[Signature]</i>	
	Purchase	<i>[Signature]</i>	
	QA	<i>[Signature]</i>	
Issued By		QUALITY ASSURANCE	

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3.0 Dimensional Control

3.1. The pipes may be machined/treated both on the inner and outer diameter to meet the tolerances as mentioned below.

- a) Internal diameter shall be within $\pm 1\%$ of specified value subject to maximum of ± 4 mm.
- b) External diameter shall be within 0 to +3 mm of specified value.
- c) Concentricity of the bore shall be within 0.5 mm and out of straightness shall not be more than 1 mm on entire length.
- d) Surface roughness shall be Ra 6.3 microns or finer.
- e) Pipe ends shall be square to the pipe axis.

4.0 Ultrasonic examination

- a) Reference standard: ASTM E 213.
- b) Scanning direction: Both circumferential directions.
- c) Calibration notch:
 - i. V or U type
 - ii. Depth: 5% of specified tube thickness subject to minimum of 0.3mm and maximum of 1.5 mm.
 - iii. Width: Maximum 1.5 mm.

5.0 Marking, Preservation and Packing:

5.1. Pipe shall be stamped either on the face or at a distance of 300 mm from pipe end with the following details.


- a) Supplier name/emblem
- b) Specification and grade
- c) Melt No.
- d) Size

5.2. Each pipe shall be supplied loose with rust inhibitive **paint** on inner and outer surfaces to withstand marine corrosion.

6.0 Test Certificate

6.1. The supplier shall furnish test certificate in English as per 3.1 of EN 10204 for the following properties.

- a) Chemistry - melt wise
- b) Tensile strength, yield strength, % of elongation, impact energy, Elevated temperature yield strength --- (see Cl.2.2.)
- c) Ultrasonic examination results -- (see Cl.4.0)

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Record of revisions

Rev No.	Clause	Revision made	Date
00	--	Original issue	15 12 93
01	--	Title Modified	16 08 95
	1.3	Deleted	
	2.1	Mechanical requirements are Brought under this clause.	
	2.2	Pipe machining requirements Included	
	3.1	Normalizing for St.37 and SA 106 Gr.B/C included.	
	4.0	UT requirements are detailed	
02	8.0	Clause modified to include 3.1 Format of TC	23 05 97
	--	Clause Nos. are updated	
	1.3	Clause added	
	2.2	Editorial correction	
03	5.1	Tolerance on thickness removed & tolerance on OD is included	08 12 98
	5.2	Deleted	
	1.3	Clause Added	
	1.2 & 2.1	SA 106 Gr.C added	
04	2.2	Ra for surface roughness is included	02 05 02
	5.3	Straightness requirement added	
04	--	Totally modified	01 06 07
05	--	Material designation modified inline with revised standard. Grades SA 335 P22 and P12 are added and St 35.8 is deleted.	05 08 13
06	5.2	Revised as Rust inhibitive paint.	

TECHNICAL CONFIRMATION / DEVIATION REPORT

SI.No	Description	BHEL's requirement	Supplier's comments
01	Sizes	Item wise size quoted in line with our requirement to be confirmed. Any deviation item wise to be mentioned.	
02	Specification	Quoted specification in line with our requirement to be confirmed. In case of offer with equivalent material grade, then copy of the entire specification of that equivalent grade shall be sent along with the techno-commercial bid without fail.	
03	TDC	Clause wise confirmation in line with our TDC to be confirmed. In case of any deviation, clause wise to be mentioned in the below SDDR.	
04	Specification deviation disposition report (SDDR)	Below SDDR to be filled & submit without fail. <u>(Even if no deviation is taken, NIL report to be submitted).</u>	

SPECIFICATION DEVIATION DISPOSITION REPORT			
Specn	Item		
Enq.No & Date			
Vendor Name			
TDC			
No	Clause	Details Of Deviation With Reason	Disposition By BHEL
Signature Of Vendor			Reviewed By
" AGREED DEVIATION "		if any to be incorporated in the PO in the event of order.	APPROVED BY

DATE:

SIGNATURE WITH SEAL

Pre-Qualification Requirement (PQR) for supply of Seamless Steel Pipes -ID controlled

Offers from Bidders meeting all the below Pre-Qualification criteria concurrently will only be qualified to participate in this Tender Enquiry. Other Offers will summarily be rejected.

Sl No.	Pre- Qualification Criteria	Documentary Evidence to be submitted by Bidder	Bidders' Remarks/ Comment/ Confirmation
1	Bidder should be a Manufacturer of ID controlled Seamless Steel tubes/ Pipes and supply shall be as per BHEL specification without any deviation. Authorised dealer/ stockist should submit the Authorisation/ agreement copy from Principal mills for participating in the tender.	Registration certificate / Certificate of incorporation / Udyam Registration Certificate.	
2	Bidder should have previously supplied ID controlled Seamless steel tubes/ Pipes of same or bigger sizes as in the tender. Proof of earlier supply P.O, Invoices, Material test certificates and acceptance letter from Customer should be submitted along with the offer. Offers without these documents will not be considered.	(i)Purchase order copies with related Invoice/ GRN/ SRV details.	
3	Bidders shall not have been black-listed / kept on hold / given Business holiday for a specified period by any Public Sector Undertaking or Government Departments/any other units of BHEL	Self-declaration to be submitted by bidder.	

Declaration: All the information given above are true to the best of our knowledge and belief.

SIGN AND SEAL OF AUTHORIZED PERSON

*(To be submitted In the company letter head by supplier)

Declaration of Local Content by Local supplier

Subject: Public Procurement (Preference to Make In India)

References:

Preference to Make in India including counter offering will be as per the Public Procurement (Preference to Make in India), Order 2017 available in the following links <https://dipp.gov.in/public-procurements>

http://dipp.nic.in/sites/default/files/publicProcurement_MakeinIndia_15June2017.pdf

http://dipp.nic.in/sites/default/files/Revised-PPP-MII-Order-2017_28052018.pdf

https://dipp.gov.in/sites/default/files/PPP-MII%20Order%20dt%2029th%20May%2019_0.pdf

<https://dipp.gov.in/sites/default/files/PPP%20MII%20Order%20dated%204th%20June%202020.pdf>

We hereby declare with reference to above subject and references that

M/s -----(Tick whichever is applicable as below)

"Class-I local supplier" meeting the requirement of minimum local content equal to 50% (fifty percent) or more defined in the above government notification for the goods and services

(or)

"Class-II local Supplier" meeting the requirement of local content 20% to less than 50% (fifty percent) defined in the above government notification for the goods and services

(or)

Non Local supplier (If not belonging to Class-I & Class-II)

Please mention the details against the following:

Enquiry no:----- dated. -----

Type of Supplier (Class-I/Class-II)

Product:-----

Project:.....

Details of location at which local value addition will be made is as follows: _____

We also understand that the false declarations will be in breach of the code of Integrity under rule 175(1)(i)(h) of the General financial rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Authorized Signature M/s-----

(Signature and seal)

Place:.....

Date:.....