

NTPC Ltd
EOC, NOIDA

Sub: Qualifying Requirement for Vendor Enlistment for 'Cast Iron pipe lines for Ash conveying pipes of sizes above 250 NB and up to 400 NB'

A)	MEG Details		
	1.0	MEG No.	16MEG-26
	2.0	MEG Description	Cast Iron pipe lines for Ash conveying pipes of sizes above 250 NB and up to 400 NB
	3.0	Responsibility Centre	CPC
B)	<p>Technical Criteria of QR:</p> <ol style="list-style-type: none"> The applicant should be a manufacturer of CI Pipes. The applicant should have a valid BIS license for IS-1536, Size 400 NB or above diameter. The applicant should have supplied CI Pipes of Size 350 NB or above diameter during last five years from date of application. <p>Documents to be submitted in support of meeting Technical QR:</p> <ol style="list-style-type: none"> Latest annual report OR NSIC / SSI / MSME registration certificate / BIS license / ISO certificate / Certificate of registration from the concerned excise department / any other statutory document as a proof of being manufacturer as per QR. The PO (issued within last five years from the date of application for enlistment) in support of award and completion certificate/copies of invoice to establish successful execution as per QR. Standard Published catalogue. 		
C)	<p>Other Documents to be submitted:</p> <p>In addition to the documents required in support of meeting technical requirements as stated above, following documents are required to be submitted by the Applicants applying for enlistment: -</p> <ol style="list-style-type: none"> Three POs of the highest executed values of similar work (see definition at point D-Note below) during previous five years from the date of application. The Copy of Invoice / Completion certificate in support of successful execution of supply against the POs is to be submitted. Financial statements: <ol style="list-style-type: none"> In case of proprietorship and partnership firm having turnover more than 1 crore & Companies incorporated as per Companies act 2013: Audited Financial statements for the previous five completed financial years reckoned from the date of application. For Proprietorship and partnership firm having turnover less than 1 Crore: Certified copy of Financial statements by a registered practicing Chartered accountant for the previous five completed financial years reckoned from the date of application. In case the audited financial statements of last financial year are not ready / available, then, certified copy of financial statements by a registered practicing Chartered accountant duly considered/accepted by CEO/CFO/Key Managerial Personnel. <p>Note: Financial statements means/includes balance sheet, profit and loss account/income and expenditure account, cash flow statement, statement of changes in equity and any explanatory note annexed to the same.</p> <ol style="list-style-type: none"> Any other documents in addition to the above which the applicant wants to submit. NTPC can ask other documents as necessary during the course of evaluation. 		
D	Note-1	Similar works means: CI Pipes of Size 350 NB or above diameter and of thickness 11.38 or more (In mm) in last 5 years from the date of application for enlistment	
	Note-2	The executed value means the basic value of quantity of similar works executed / supplied against the reference PO (also applicable to partly executed POs as on the date of application). Where PO value is composite (i.e., including taxes etc.) the applicant to give item-wise break up of composite PO mentioning basic value, taxes etc.	

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Sub: Technical Specifications & Quality Plan for 'Cast Iron pipe lines for Ash conveying pipes of sizes above 250 NB and up to 400 NB'

A)	MEG DETAILS	
	1.0	MEG No. 16MEG-26
	2.0	MEG Description Cast Iron pipe lines for Ash conveying pipes of sizes above 250 NB and up to 400 NB
	3.0	Responsibility Centre CPC
B	Technical Specifications	1. Centrifugally Casted CI pipes with plain ends 2. Nominal bore 3. IS 1536 2001 CL- A to E <ul style="list-style-type: none"> For Class A thickness is 11.38 mm with 10% increasing from Class A to E

Quality Plan:

	ITEM (MATERIAL, CLASS, GRADE, RATING, RANGE, SIZE ETC.):	STANDARD QUALITY PLAN		QP NO.: 0000-999-QOM-S-095	REVIEWED BY:	APPROVED BY:						
	CI SPUN PIPES	CONFORMING TO CODE: AS PER IS 1536-2001 / BS 1211 - 1958		REV. NO.: 00 DATE : 27/11/2017 PAGE 1 OF 1	M KHALIQUZZA K J RAO R K JHA	K K OJHA						
				VALID UPTO : 26/11/2020								
SI NO	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT #	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY	REMARKS	
					M	C/N						
1.0	RAW MATERIAL INSPECTION											
1.1	Raw Materials Like Pig Iron & Scrap	Material Compliance	MR	Chemical Check	One / Lot	One / Lot	As per Manufacturer Std	M.T.C	-	P	V	V
	Rubber gaskets for socket & spigot ends pipes **	Conformance to IS 1536 requirements	MI	Visual	One / Lot	One / Lot	IS 5382 & IS 12820	IR	-	P	V	V
2.0	IN PROCESS INSPECTION											
2.1	Pipe Spinning	Surface Condition	MR	Visual Check	100%	100%	IS 1536 / BS 1211	IR	-	P	V	V
		Thickness of pipe	MR	Measurement	100%	100%	IS 1536 / BS 1211	IR	-	P	V	V
2.2	Heat Treatment	Verification of Heat Treatment	CR	Review	100%	100%	IS 1536 / WI -701	HT Certificate	√	P	V	V
2.3	Pipes after heat treatment	Major Dimensions	MR	By gauges	Every Hour	Every Hour	IS 1536 / WI - 1001	IR	-	P	V	V
3.0	FINAL INSPECTION											
3.1	Physical Testing	Mechanical Test	CR	Modulus of Rupture / Tensile test	IS 1536	1/Batch	NTPC Approved drawing /Data Sheet / IS 1536 / BS 1211	IR	√	P	W	W
		Brinell Hardness	CR	Hardness Measurement	IS 1536	1/Batch	NTPC Approved drawing /Data Sheet / IS 1536 / BS 1211	IR	√	P	W	W
3.2	Dimensions	OD, Thickness, Ovality, Straightness, Length and Socket & Spigot Dimensions	MR	By GO Gauges, Caliper, Measuring Tape	IS 1536	10%	NTPC Approved drawing /Data Sheet / IS 1536 / BS 1211	IR	√	P	W	W
3.3	Hydrostatic Test	Soundness of Pipe	MA	Hydraulic Test	100%	5%	NTPC Approved drawing /Data Sheet / IS 1536 / BS 1211	IR	√	P	W	W
3.4	Tar Coating	Coating Adherence	MR	Adherence test	IS 1536	IS 1536	NTPC Approved drawing /Data Sheet / IS 1536 / BS 1211	IR	√	P	V	V
3.5	Marking	Compliance to governing Standard	MA	Verification	IS 1536	IS 1536	NTPC Approved drawing /Data Sheet / IS 1536 / BS 1211	IR		P	V	V
Note 1: Socket & Spigot dimensions are applicable for socket & spigot end pipes only. Note 2: Tolerance on dimensions as per NTPC Approved Drg/DS / IS:1536/01/BS 1211.												

LEGEND: * RECORDS, IDENTIFIED WITH "TICK" (√) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION.
 ** M: MANUFACTURER/SUB-SUPPLIER C: MAIN SUPPLIER, N: NTPC P: PERFORM W: WITNESS AND V: VERIFICATION. AS APPROPRIATE. CHP: CUSTOMER HOLD POINT - NTPC SHALL IDENTIFY IN COLUMN "N" AS "W"

FORMAT NO.: QS-01-QAI-P-10/F3-R1 ENGG. DIV./QA&I