

NTPC LTD
CPG-1/Raipur

VENDOR DEVELOPMENT CELL

Sub: Qualifying Requirement (QR) for Vendor Enlistment for Supply of CPVC Pipes, CPVC fittings and CPVC Solvent Cement” Under 16 MEG-27

A)	MEG DETAILS		
	1.0	MEG NO.	16 MEG-27
	2.0	MEG DESCRIPTION	CPVC Pipes, CPVC fittings and CPVC Solvent Cement.
	3.0	RESPONSIBILITY CENTRE	CPG-1/ VDC
B)	Technical Criteria of QR: The applicant should be a manufacturer of “CPVC pipes and CPVC fittings” and should have supplied “CPVC pipes/CPVC fittings/CPVC Solvent Cement” as per the *relevant ASTM standard during the last five (5) years, reckoned as on date of submission of application. Notes: <ol style="list-style-type: none">1. CPVC means Chlorinated Poly Vinyl Chloride.2. * Relevant ASTM standard for CPVC pipes is ASTM F441/F441M, CPVC fittings is ASTM F439 and CPVC Solvent Cement is ASTM F493.		
C)	Documents to be submitted as proof of meeting the stipulated Qualifying Requirements as stated at B) above QR-1: 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 of the required material. QR-2: Copy of Purchase Order(s) and Completion certificate /Invoice(s)/ Receipt(s)/Eway Bills for supplying CPVC Pipes/CPVC Fittings. NTPC can ask more documents if felt necessary.		

D)		<p>Other Documents to be uploaded: In addition to the documents required in support of Qualifying Requirements as stated at C) above, following documents are also required to be uploaded by the applicants applying for enlistment: -</p> <ol style="list-style-type: none"> 1. Three POs of the highest executed values of similar works during previous five years from the date of application. Copy of Invoice / Completion certificate from the concerned buyer/s in support of successful execution of supply against the POs to be submitted. 2. Audited balance sheet including Profit & Loss statement for the previous three completed financial years reckoned from the date of application. In case the audited result for the preceding financial year is not available, certification of financial statements from a practicing-chartered accountant is to be uploaded. In case, applicant is not able to submit the certificate from practicing chartered accountant certifying its financial parameters, the audited results of the three consecutive financial years preceding the last financial years shall be considered for evaluating the financial parameters. Further, a certificate would be required from the CEO/CFO stating that the financial results are under audit as on date of application and certificate from the practicing chartered certifying the financial parameters are not available 3. Any other documents in addition to the above which the applicant wants to submit. <p>NTPC can ask more documents if felt necessary.</p>
E)	NOTE-1	<p>Similar works means: Applicant should have supplied “CPVC pipes/CPVC fittings/CPVC Solvent Cement” conforming to *relevant ASTM Standards.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. CPVC means Chlorinated Poly Vinyl Chloride. 2. *Relevant ASTM standard for CPVC pipes is ASTM F441/F441M, CPVC fittings is ASTM F439 and CPVC Solvent Cement is ASTM F493.
F)	QUALITY PLAN	ATTACHED

NTPC LTD
CPG-1/Raipur

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Sub: Technical Specifications for Vendor Enlistment for Supply of CPVC Pipes, CPVC fittings and CPVC Solvent Cement” Under 16 MEG-27

A)	MEG DETAILS									
	1.0	MEG NO.	16MEG-27							
	2.0	MEG DESCRIPTION	Supply of CPVC Pipes, CPVC fittings and CPVC Solvent Cement”							
	3.0	RESPONSIBILITY CENTRE	CPG-1/VDC							
B)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">CLAUSE NO.</th> <th style="width:85%;">TECHNICAL REQUIREMENTS</th> </tr> <tr> <td style="text-align: center;">1.0</td> <td> <p align="center">CPVC PIPES, CPVC FITTINGS AND CPVC SOLVENT CEMENTS AS PER ASTM STANDARDS</p> <p>GENERAL</p> <p>Supply of CPVC Pipes, CPVC Fittings And CPVC Solvent Cements as per ASTM Standards</p> <p>2.0 Application</p> <p>As required</p> <p>3.0 Compliance with International Standards</p> <p>The material shall comply with the requirements of the following standard and also meet the requirements of this specification</p> <p>a) CPVC Pipes: Schedule 80, ASTM F441/F441M (Material Shall Confirm to the requirements of ASTM D1784)</p> <p>b) CPVC Pipe Fittings: Schedule 80, ASTM F439</p> <p>c) CPVC Solvent Cements: ASTM F493</p> <p>4.0 Dimensions of Pipes And Fittings</p> <p>4.1 SIZE</p> <p>Nominal Diameter – As per ASTM standard</p> <p>Thickness / Pressure Class – Schedule 80</p> <p>Length – As per Manufacturer Standard Length</p> <p>4.2 Tolerances for Pipes and fittings shall be as per relevant ASTM Standards.</p> <p>5.0 QA Requirements</p> <p>Pipes Shall be tested as per standard quality plan.</p> </td> </tr> </table>						CLAUSE NO.	TECHNICAL REQUIREMENTS	1.0	<p align="center">CPVC PIPES, CPVC FITTINGS AND CPVC SOLVENT CEMENTS AS PER ASTM STANDARDS</p> <p>GENERAL</p> <p>Supply of CPVC Pipes, CPVC Fittings And CPVC Solvent Cements as per ASTM Standards</p> <p>2.0 Application</p> <p>As required</p> <p>3.0 Compliance with International Standards</p> <p>The material shall comply with the requirements of the following standard and also meet the requirements of this specification</p> <p>a) CPVC Pipes: Schedule 80, ASTM F441/F441M (Material Shall Confirm to the requirements of ASTM D1784)</p> <p>b) CPVC Pipe Fittings: Schedule 80, ASTM F439</p> <p>c) CPVC Solvent Cements: ASTM F493</p> <p>4.0 Dimensions of Pipes And Fittings</p> <p>4.1 SIZE</p> <p>Nominal Diameter – As per ASTM standard</p> <p>Thickness / Pressure Class – Schedule 80</p> <p>Length – As per Manufacturer Standard Length</p> <p>4.2 Tolerances for Pipes and fittings shall be as per relevant ASTM Standards.</p> <p>5.0 QA Requirements</p> <p>Pipes Shall be tested as per standard quality plan.</p>
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CPG 1- PPG (BOP)		TECHNICAL SPECIFICATIONS Rev-0	CPVC PIPE AND FITTINGS	Page 1 of 1						


MFGR's LOGO	MANUFACTURER'S NAME & ADDRESS:	RAMAGUNDAM MANUFACTURING QUALITY PLAN			PROJECT:
		ITEM: CPVC PIPES AND FITTINGS	QP NO:-	PACKAGE: PR NO:	
		SUB SYSTEM:	REV NO	P. O. NO:	MAIN SUPPLIER:
			DATE:		
			PAGE: OF		

SL NO	COMPONENT/ OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS
					M	C / N				M	C	N	
1	2	3	4	5	6		7	8	9	D	** 10	11	

CPVC Compound- NTPC shall review Manufacturer's TC for properties as per applicable specs/standard

1.0	FINAL INSPECTION												
1.1	PIPE	Visual check	Critical	Free from defects, smooth inside, outside	Random	ASTM F 441	As per ASTM F 441	Inspection Report	√	P	-	W	Marking as per PC specs / Standard
1.2		Drop impact check Test	Major	Impact Testing M/C	10 per batch	Manufacturer's standard	Manufacturer's standard	Test Report	√	P	-	V	
1.3		Dimension	Critical	Measure	01 sample per lot per type	ASTM D 2122 & ASTM F 441	As per ASTM F 441	Inspection Report	√	P	-	W	
1.4		Flattening Test	Critical	Flattening Testing M/C	--do--	ASTM F 441	As per ASTM F 441	Test Report	√	P	-	W	
1.5		Reversion Test	Critical	Reversion Testing M/C	--do--	Manufacturer's standard	Manufacturer's standard	Test Report	√	P	-	W	
1.6		Burst pressure Test	Critical	Pressure Testing M/C	--do--	ASTM F 441 & ASTM D 1599	As per ASTM F 441	Test Report	√	P	-	W	
2.0	FINAL INSPECTION												
2.1	FITTINGS	Visual check	Critical	Free from defects, smooth inside, outside	Random	ASTM F 441	As per ASTM F 441	Inspection Report	√	P	-	W	
2.2		Dimension	Major	Measure	01 sample per lot per type	ASTM D 2122 & ASTM F 439	As per ASTM F 439	Inspection Report	√	P	-	W	
2.3		Pressure Test	Major	Pressure Testing M/C	--do--	ASTM F 439	As per ASTM F 439, Table6	Test Report	√	P	-	V	

Note: 1) If any testing facility is not available with the manufacturer the testing may be carried out in NTPC approved third party lab. In case of witness checks, NTPC representative shall collect the sample and seal it for handing over the sample to manufacturer for sending the samples to NTPC approved third party lab. However, the Inspection Engineer who has identified the sample at Manufacturer's works shall identify the sample at NTPC approved 3rd party lab before the start of testing. The test certificate(s) to be furnished to NTPC representative for review and acceptance.
2) In case of testing at any of the third party lab complying with ISO/IEC 17025 accredited by NABL lab, the tests are to be witnessed by NTPC representative including verification of calibration status.
3). Lot is defined as offered quantity; random sample will be selected for testing.

		LEGEND: RECORDS INDICATED WITH "TICK" (√) MARK SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION				
MANUFACTURER / SUB SUPPLIER	MAIN SUPPLIER	** M: MANUFACTURER/SUB SUPPLIER C: SUPPLIER N: NTPC P: PERFORM W: WITNESS V: VERIFICATION AS APPROPRIATE CHP: CUSTOMER HOLD POINT				
SIGNATURE			FOR NTPC USE	PREPAERED BY	REVIEWED BY	APPROVED BY

4) Reference and Acceptance norms shall be derived from following in the same sequence-
i) NTPC Approved drawing / data sheet ; ii) NTPC tech specs ; iii) Purchase Order ; iv) Relevant national standard;v) Relevant International standard ; vi) Manufacturer's standard vii) Good Engineering practices