

**NTPC Ltd**  
**Vendor Development Cell**  
**CPG-1, Raipur**

**Sub:** Qualifying Requirement for Vendor Enlistment for '04MEG-03: Ceramic Pad /Fibre Insulation'

A)	MEG Details		
	1.0	MEG No.	04MEG-03
	2.0	MEG Description	Ceramic Pad /Fibre Insulation
	3.0	Responsibility Centre	CPC
	4.0	Enlistment Category	I
B)	<p><b>Technical Criteria of QR:</b></p> <ol style="list-style-type: none"> <li>i. The applicant should be a manufacturer of Ceramic Pad/Fibre insulation in India as per IS 15402: 2003 or its latest edition.</li> <li>ii. The applicant should have supplied Ceramic Pad/Fibre Insulation in India as per IS 15402: 2003 &amp; IS 14656: 1999 or its latest edition, Type-I or II &amp; Grade-128 or higher to any Thermal Power Plant in last five years from the date of application.</li> </ol> <p><b>Documents to be submitted in support of meeting Technical QR:</b></p> <ol style="list-style-type: none"> <li>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 as per QR.</li> <li>2. 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.</li> <li>3. Standard Published catalogue.</li> </ol>		
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"> <li>1.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.</li> <li>2.Financial statements: Audited balance sheet including Profit &amp; Loss statement for the previous three completed financial years reckoned from the date of application. In case the audited documents are not ready / available, then certified copy by a registered practicing Chartered accountant may be submitted.</li> <li>3. Any other documents in addition to the above which the applicant wants to submit.</li> <li>4. NTPC can ask other documents as necessary during the course of evaluation.</li> </ol>		
D	<b>Note-1</b>	<b>Similar works means:</b> The applicant should have supplied Ceramic Pad/Fibre Insulation as per IS 15402 : 2003 & IS 14656 : 1999 or its latest edition (Type-I or Type-II).	
	<b>Note-2</b>	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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*Technical Specifications of 04MEG-03: Ceramic Pad /Fibre Insulation*

**Name of material:** Ceramic Pad /Fibre Insulation

**Description of Ceramic Pad/Fibre Insulation:** Ceramic Pad/fibre Insulation.

**Detail Technical Specifications of Ceramic Pad/Fibre Insulation for Turbine and Boiler area:**

1. Ceramic Pad/Fibre insulation as per IS: 15402: 2003 and IS 14656: 1999 or its latest edition.
2. Type-I or II as per tender enquiry/requirement.
3. Size: (Length) X (Width) X (Thickness) as per tender enquiry/requirement.  
Tolerance for length and width as per Indian Standard IS 15402:2003 or its latest edition.
4. Classification Temperature 1260 Deg.C or more as per enquiry.
5. Grade/Density: 128 KG/Cu.M or higher as per enquiry.
6. Thermal conductivity confirming to IS 15402:2003 or its latest edition.
7. Relevant Standards: As per IS 15402 : 2003 & IS 14656 : 1999 or its latest edition.  
IS 15402 : 2003 Ceramic Fiber Blanket Insulation – Specification.  
IS 14656 : 1999 Ceramic Fiber Products - Methods of Test.

**Additional Specific Requirement (As per tender enquiry/requirement):**

1. The insulating material and protective covering shall be new, unused, homogeneous, noncombustible and free of vermin and fungi and shall be guaranteed to withstand high temperature continuously without deterioration.
2. Material test certificate & Guarantee/Warranty certificate shall be submitted along with the material.
3. Ancillary material such as stainless steel clip washer, industrial type hook, and spring type clips stainless steel lugs 6 mm etc for supporting insulation are to be supplied by the party.
4. Material shall be packed in bags to protect it from weathering and for ease of handling.
5. Pre-Dispatch Inspection shall be done at vendors work by NTPC RIO as per NTPC approved Quality Plan.
6. Qty. of all accessories shall be sufficient for properly securing the Ceramic Fibre pads onto the surface.

Name & Address of Manufacturer :		MANUFACTURING QUALITY PLAN					QP No	Project :							
		Item: Pad Type Ceramic Insulation					Rev No.	Package :							
							Date	Contract No :							
		Sub-system:					Page	Main-Supplier :							
S.No	Component & Operation	Characteristics	Classification	Type of Check	Quantum of Check		Reference Document	Acceptance Norm	Record			Agency			Remark
					M	C/N			Format	D	M	C	N		
1.0	Raw Material														
1.1	Ceramic Blanket Material	Chemical Composition	Major	Chemical test	Sample as per IS	---	PO Spec/ Appd Datasheet/ Appd Drg	PO Spec/ Appd Datasheet/ Appd Drg		Y	P			V	
1.2	Wire mesh, clip washer hook, dip, lug, binding wire	Chemical Composition and dimensions	Major	Chemical test and measurement	Sample as per IS	---	PO Spec/ Appd Datasheet/ Appd Drg	PO Spec/ Appd Datasheet/ Appd Drg			P			V	
2.0	Final Inspection														
2.1	Ceramic Fibre Blanket	Bulk Density	Critical	Physical	Sample as per IS	Sample as per IS	PO Spec/ Appd Datasheet/ Appd Drg	PO Spec/ Appd Datasheet/ Appd Drg	IR	Y	P			W	
2.2		Linear Shrinkage at working temp	Critical	Physical	Sample as per IS	Sample as per IS	- Do -	- Do -	IR	Y	P			W	
2.3		Thermal Conductivity *	Critical	Physical	Sample as per IS	---	- Do -	- Do -	Test Report	Y	P			V	Sample to be sealed in NTPC's presence. Test report of sample tested at NTPC approved lab to be reviewed.
2.4		Tensile Strength	Critical	Physical	Sample as per IS	Sample as per IS	- Do -	- Do -	IR	Y	P			W	
2.5		Shot Content	Critical	Physical	Sample as per IS	Sample as per IS	- Do -	- Do -	IR	Y	P			W	
2.6		Dimension	Critical	Measurement	Sample as per IS	Sample as per IS	- Do -	- Do -	IR	Y	P			W	
3.0	CLOTH	Withstand Temperature	Critical	Measurement	Sample as per IS	1 sample / batch				Y	P			V	
4.0	Glass Fiber Cloth	Withstand Temp.	Critical	Measurement	Sample as per IS	1 sample / batch				Y	P			V	

D- Documents. Records identified with 'Y' mark shall be included by supplier in QA Documentation. M-Manufacturer / Sub-supplier, C-Supplier, N-NTPC, P-Perform, V-Verify, W-Witness

Manufacturer/ Sub-supplier		Main Supplier		IR - Inspection report, TC-Test Certificate	For NTPC Use	NTPC Doc No.		
Signature & Seal						Reviewed by	Approved by	Approval Seal

NOTES: -

A) Reference and Acceptance norms shall be derived from following in the same sequence-

1) NTPC Approved drawing / data sheet, 2) NTPC tech specs 3) Purchase Order 4) Relevant national standard 5) Relevant International standard 6) Manufacturer's standard 7) Good Engineering practices

B) Main Contractor Column may please be ignored.

C) Type test requirements -as specified in Tech Specs / PO

D) In case of non availability of test facility at Vendor's works, NTPC identified samples to be tested at NTPC approved laboratories and TC shall be reviewed by NTPC