

**PRE-QUALIFICATION REQUIREMENTS (TECHNICAL) FOR
PORCELAIN INSULATOR (0587.201)**

INTRODUCTION: Porcelain Insulators are used during assembly of Terminal Bushings of Turbo-Generators. Porcelain shall be of first class quality, homogenous and non-porous. The porcelain shall be sound, free from defects, thoroughly vitrified and smoothly glazed. Porcelain Insulators shall be able to withstand continuous passage of sparking currents without breaking down or heating up.

1. **EXPERIENCE:** The vendor should have the experience of successful manufacturing and supplying the Porcelain Insulator to OEM of Generator of capacity 200 MW and above during last ten years from date of issuance of enquiry.

In support of above vendor to submit the following documents: -

- 1.1. Unpriced Copy of two successfully executed purchase orders for Porcelain Insulator used in Generator of capacity 200MW and above.
- 1.2. Copy of Test Certificates (for dimensional, mechanical and electrical test, etc.) for any one of the purchase orders submitted against clause 1.1.
- 1.3. Documentary evidence of acceptance of material, pertaining to purchase order for which TCs has been submitted against clause 1.2

2. **MANUFACTURING FACILITIES:**

- 2.1) Vendor to confirm that they have all in-house manufacturing facilities for above Porcelain Insulator meeting the requirements as per BHEL specification 0587.201 rev 03. Vendor to provide details of manufacturing facility required for manufacturing above Porcelain Insulator along with photographs.
- 2.2) If the vendor plans to outsource any manufacturing activity, particulars of the same along with details of the sub-vendor to be furnished to BHEL for review.

3. **TESTING FACILITIES:**

- 3.1) Vendor to confirm that they have in-house test facilities, sufficient to carry out all the test as per enquired specification 0587.201 rev 03. Vendor to provide the details of testing facilities available at their works.
- 3.2) In case vendor conducts test at an external testing agency, vendor to furnish the details of the same, e.g. NABL accredited/Government approved Lab.

4. The vendor shall source the raw material from reputed suppliers and shall furnish details/TC of the same to BHEL along with offer.
5. Vendor to confirm the detailed technical requirements of the specification 0587.201 REV. 03.
6. Vendor who is supplying this item to BHEL for the first time, has to submit one piece of porcelain insulator as per enquired drawing, to carry out all tests as per clause 6 of BHEL specification 0587.201 rev 03. Vendor will be qualified on the basis of successfully passing the test of submitted samples as per specification 0587.201 rev 03 in addition to qualifying other requirement of PQR.

NOTE

- a. BHEL reserves the right to verify the information submitted by the vendor. In case the information is found to be false or incorrect, the offer shall be rejected.
- b. All the documents should be furnished in English language only. If the document provided by vendor is in any language other than English, it must be supported with its certified English translation.

MANUFACTURER'S NAME AND ADDRESS			QUALITY PLAN					TO BE FILLED BY BHEL		TO BE FILLED BY BHEL			
BHEL	VENDOR'S NAME	ITEM			QP NO.								
				REV									
		DRG. NO.	AS PER PO										
		SPEC.	AS PER PO										
		REV				Page 1 of 1							
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
										M	B	N	
1	2	3	4	5	6	7	8	9	D	10			11

		LEGEND: ! RECORDS IDENTIFIED WITH ‘TICK’ SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE ‘P’ PERFORM ‘W’ WITNESS AND ‘V’ VERIFICATION ALL ‘W’ INDICATED IN COLUMN ‘N’ SHALL BE ‘CHP’ OF CUSTOMER	FOR CUSTOMER USE	
MANUFACTURER/SUBCONTRACTOR				APPROVED BY