

**Technical Pre-Qualification Requirement for Thermo epoxy Compound (Thixotropic Compound) designed for room temperature curing**

The Technical Pre-Qualification requirement for "Thermo epoxy Compound (Thixotropic Compound) designed for room temperature curing" is as under:

**A: Following clauses are applicable for new vendor not registered in BHEL and /or the vendor who are already registered in BHEL but not for this material "Thermo epoxy Compound (Thixotropic Compound) designed for room temperature curing"**

Clau se. No.	Description		Vendor to comment		
			Complied / Not complied	Supporting relevant document submitted	
1.	"Thermo epoxy Compound (Thixotropic Compound) to be two part low viscosity thixotropic liquid compound with suitable hardener to mix with and exhibit room temperature curing. Typical properties of compound to be as table below:				
	S.No.	Description of properties	Required parameter	Complied / Not complied	Supporting relevant document submitted
	1	Physical state	Two component Epoxy Resin and hardener separately with detail of mixing ration and shelf life.		
	2	Finish	Semi glossy		
	3	Color	Red		
	4	Curing after mixing	To be cure at room temperature		
	5	Application	Easy to apply with brush or spatula		
	6	Density (after mixing)	1.3 to 1.4		
	7	Shore hardness after curing	80 to 90		
	8	Water absorption after mixing (max)	At 23°C/24 hrs: 5-6 mg At 100 °C/30 min: 25-35 mg		
	9	Adhesion (mixture)	Good adhesion to organic and inorganic materials		
	10	Shelf life for both the component in sealed condition	Minimum 12 months from the date of manufacturing when stored at temperature 2°C to 40°C		
	11	Pot life after mixing	Min 25-30 min at 25°C		
	12	BDV after curing for 0.1mm thick layer	8 KV/mm		
13	Flash point	Above 200°C			
2.	The firm must have adequate manufacturing facilities at their works/in-house for manufacturing this material, exactly as per the properties mentioned above at clause 1.				
3	List of plant and machinery along with their photographs to be submitted.				

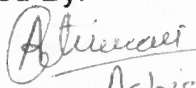
Clause No.	Description	Vendor to comment	
		Complied / Not complied	Supporting relevant document submitted
4	Availability of Testing facilities required to conduct all the tests as per the above mentioned properties is desirable with the firm, preferably in-house. List of testing facilities along with their photographs to be submitted. All testing facilities have to be duly calibrated. List of outsourced facilities (if used) may be submitted. Outsourced labs/firms should necessarily be NABL accredited.		
5.	Vendor should have qualified persons for conducting various tests as per specification. Organization chart with qualification and experience of personal to be submitted.		
6.	Manufacturing and supply experience in preceding 5 years of same/similar (thixotropic compound) material to some reputed traction motor /motor/alternator manufacturers is desirable. The proof of the same/similar item (PO Copies) with supply experience to be attached. Unprice PO copies is also acceptable.		
7	Vendor to disclose the source of raw material, proof of recent procurement, detail specification from which material has been procured, latest test certificate of raw material used for manufacture of the same/similar (thixotropic compound) item as mentioned in clause 6.		
8	Production capacity of the firm for this material per month/annum to be submitted.		
9	If supplier has any RDSO approval for same/ similar item to be submitted.		
10	If the supplier is registered in any other unit of BHEL, the details to be submitted along with vendor code, material category.		
11	Successful tenderer to get their first lot approved by BHEL before start of bulk supply in case of PO placement.		

**B: Following clause are applicable to the vendors who are already registered in BHEL for "Thermo epoxy Compound (Thixotropic Compound) designed for room temperature curing" and regularly receiving limited tender enquiry in past.**

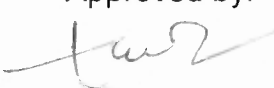
SL. No.	Description	Vendor to comment	
		Complied / Not complied	Supporting relevant document submitted
1.	Vendor to furnish BHEL POs of last 4 years		
2.	Vendor to furnish BHEL's enquiry no. against which the vendor has quoted during last 4 years.		

**Note: Compliance of above PQR (clause A for new vendor & B for BHEL registered vendor) is mandatory and. In absence of compliance of above vendor offer is legible to be rejected.**

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