

**ANNEXUR VI- Mandatory Technical Pre-Qualification Requirements (PQR) For
Vendors for Supplying Mica Paper Taped Rectangular Copper Wire to BHEL
Specifications BP28189 & IN. SK. 46044 through Open Tender**

Technical PQR			
Sl. No.	Description of Pre-Qualification Requirement (PQR)	Vendor's Response	
		Compliance (Tick/ Strike off as applicable)	Supporting Documents/ Information/ Confirmation to be submitted for Compliance
1)	Only Original manufacturers are eligible	Yes/ No	Factory license or certificate or documentary evidence of being original manufacturer of this item
2)	Bidders to confirm complete compliance to specifications BP28189 and IN. SK. 46044	Yes/ No	No deviation to specifications BP28189 and IN. SK. 46044 is acceptable. Signed & stamped copies of specifications BP28189 and IN. SK. 46044 to be submitted confirming compliance.
3)	Copper (raw material), mica paper tape and polyester film tape to be used for manufacturing insulated rectangular copper wire must be procured from any of the BHEL approved sources as per PQR/ISE/MTCW/OT/2021/72 Annexure 1	Yes/ No	Manufacturer test certificates of raw copper, polyester film and mica tape used in supplies to BHEL should be submitted with the dispatch documents along with insulated copper supplies in case of placement of PO
4)	Bidder must have in-house plant and machinery required to manufacture the tendered item as per technical specifications. Following facilities must be available: a) Manufacturing facility for bare rectangular copper wire b) Mica paper tape and polyester film taping facility on rectangular copper wire	Yes/ No	Following to be submitted – ➤ Detailed organization chart (Refer indicative format PQR/ISE/MTCW/OT/2021/72 Annexure 2) ➤ Plant & machinery facility available for manufacturing the tendered item (Refer indicative format PQR/ISE/MTCW/OT/2021/72 Document no. M&P/001 Annexure 3) ➤ Photographs of manufacturing facilities for bare rectangular copper wire and mica taping (like copper drawing, annealing and mica taping machine etc.) to be submitted
5)	All testing facilities and measuring equipment, required for testing the material as per specifications AA12030/ BP28189/ IN. SK. 46044 shall be available with the firm (either in-house or outsourced). The outsourced testing facilities should be duly calibrated and traceable along with accreditation in accordance to ISO 17025 to either	Yes/ No	Details of testing facilities and measuring equipments available for testing the tendered item along with list of outsourced facilities (if used), to be provided (indicative format PQR/ISE/MTCW/OT/2021/72 Annexure 4 Document no. TF/001). Proof of NABL/ ACCAB/ equivalent international

	NABL or ACCAB or equivalent international accreditation agency.		agency accreditation in accordance of ISO 17025 of outsourced facilities to be submitted with supplies.
6)	Supply Experience: The bidder should have supplied at least 20 metric tons of mica paper taped rectangular copper wire (bare or enameled), in at least one of the last three financial years before the bid opening date to any rotating electrical machine (motor/generator) manufacturers. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant financial year.	Yes/ No	➤ Documentary proof (PO and corresponding invoices) of supply by the bidder are to be submitted. Contact details of PO issuing authority with name, mobile no. and email id to be provided for facilitating verification of documents. ➤ Actual supplies made during the stipulated time will be considered (invoices should corroborate the same) ➤ The documents submitted as per above should clearly indicate the size of copper supplied, the nature of copper covering (like mica taped) and customer to which supplies have been done ➤ Additional documents/specifications may be submitted, if required, to establish the sufficiency of supply experience as per above
7)	The bidder should have minimum monthly supply capacity of a) 8 metric tons for BP28189/ IN. SK. 46044 (H2)	Yes/ No	Confirmation to be submitted
	b) 5 metric tons for IN. SK. 46044 (H1)	Yes/ No	Confirmation to be submitted
8)	Manufacturing facilities assessment may be carried out by BHEL at supplier's works if required	Yes/ No	Confirmation to be submitted
Financial PQR			
Sl. No.	Description of Pre-Qualification Requirement (PQR)	Compliance (Tick/ Strike off as applicable)	Supporting Documents/ Information/ Confirmation to be submitted for Compliance
9)	➤ Average annual turnover of at least Rs 2 crores of last 3 financial years ending March 2020.		➤ Audited Balance Sheet and profit and loss statement of last 3 years ending March 2020.

Note:

1. Compliance to above pre-qualification requirements (PQR) is mandatory. In absence of compliance of these requirements, vendor's offer is liable to be rejected.

2. BHEL reserves the right to verify the information submitted by the vendor. In case the information submitted is found false or incorrect, the offer will be rejected and suitable action may be taken as per extant guidelines.
3. BHEL has the right to verify information/ confirmation furnished, by asking for additional documents, proofs, etc.
4. All supporting documents submitted shall be valid on bid opening date failing which the offer is liable to be technically rejected.

BHEL APPROVED SOURCES

Sl. No.	Material	BHEL Approved sources
1.	BHEL approved sources for copper (raw material) to be used for making rectangular copper wire	Hindalco Industries Ltd. Mumbai
		Hindustan Copper Ltd Mumbai
		Sesa Sterlite Limited Mumbai
2a.	BHEL approved sources for polyester film backed epoxy mica paper tape to BHEL Bhopal spec BP-25185 <u>For insulated conductors to spec. In Sk 46044 (H2)/BP28189</u>	M/s Lakshmanan Isola Pvt. Ltd., Bangalore
		M/s Cogebi, Malaysia (Supplier Grade - KALASTIK 45.030)
		M/s Isovolta, Austria (Supplier Grade - CONDUCTOFOL 2009)
		M/s Vonroll, Switzerland (Supplier Grade - SAMICAFILM 315.14)
		M/s Krempel, Germany (Supplier Grade - KREMICA.FLEX K1034-09)
2b.	BHEL approved sources for polyester film backed epoxy mica paper tape to BHEL Bhopal spec BP-25185 <u>For insulated conductors to spec. In Sk 46044 (H1)</u>	M/s Cogebi, Malaysia (Supplier Grade - KALASTIK 45.030)
		M/s Isovolta, Austria (Supplier Grade - CONDUCTOFOL 2009)
		M/s Vonroll, Switzerland (Supplier Grade - SAMICAFILM 315.14)
		M/s Krempel, Germany (Supplier Grade - KREMICA.FLEX K1034-09)

3.	BHEL approved sources for Polyester film non-adhesive tape to BHEL Bhopal spec BP-22887*	M/s Dupont India Pvt. Ltd. (Supplier Grade – Mylar A/ Melinex S)
		M/s Mitsubishi (Supplier Grade - Hostaphan RNK 19)

* Polyester film tape BP22887 for manufacturing of free sample to be submitted to BHEL can also be procured from BHEL Bhopal on payment basis, if required. Only for the purpose of submission of sample to BHEL Bhopal, polyester film can be provided by BHEL Bhopal (on payment basis). For actual supplies against PO, the polyester film (BP22887) will have to be procured by the vendors themselves from approved vendors as per above.

“Name of the firm”

1.0 ORGANISATION CHART

“Name of the firm”**ANNEXURE -2**

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2.0 QUALIFICATION / EXPERIENCE OF PERSONNEL

Qualification of key personnel and the officials deployed

SL No	Name	Designation	Technical qualification	Experience	Responsibility

PREPARED BY	APPROVED BY
Name & Signature	Name & Signature

“Name of the firm”**ANNEXURE-3**

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1.0 AVAILABILITY OF MACHINERY & PLANTS (M&P) WITH THE FIRM

Sl. No.	Details of the M&P						
	Name of M&P	Model	Make	Machine No.	Year of Built	Range /Capacity	Proof of ownership

PREPARED BY	APPROVED BY
Name & Signature	Name & Signature

“Name of the firm”**1.0 AVAILABILITY OF TESTING FACILITIES WITH THE FIRM**

Sl. No.	Details of the TESTING FACILITIES						
	Name of TESTING FACILITY	Model	Make	Machine No.	Year of Built	Range /Capacity	Proof of ownership

PREPARED BY	APPROVED BY
Name & Signature	Name & Signature