



**BHARAT HEAVY ELECTRICALS LTD.**  
 (A GOVT. OF INDIA UNDERTAKING)  
 P.O BHEL Jhansi - 284120, INDIA  
 Tel.:0510-277001/2412260  
 Website : jhs.bhel.com

**PURCHASE ENQUIRY**

ENQ NO/DT: E18240003 31/05/24  
 REV NO/DT: 3 24/06/24  
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OUR ABOVE ENQUIRY OF PREVIOUS REV & DATE IS AMENDED WITH FOLLOWING CHANGED / ADDED ITEMS.

Enq Due on:	28-06-24	FRIDAY
Close at:	13:15	Open at:14:00
Matcat:	181004 RIP BUSHING	
Validity:	120 days from Technical bid opening date	
IEM:		
TOP:	See Special Remarks	
RA:	RA not applicable	
Est. Value:	Item wise	
Bid Type:	TWO BID	Delivery: FOR Jhansi
Tot Item:	1	E-Proc: No

ITEM NO : 1 PSL QTY/UM: 1.00 NO  
 MATL CODE : TR171863C622 PO QTY /UM: 1.00 NO  
 DESTINATION: JS

DESCRIPTION	DELIVERY	QUANTITY (PSL UM)
245 KV 1250 AMP 300CT LENGTH RIP SPARE H.V. BUSHING AS PER ATTACHED ANNEXURE.	JUN-24	1.00

**SPECIAL REMARKS :**

- REV03 ISSUED TO FLOAT THE ENQUIRY THROUGH OFFLINE MODE.I.E. OUTSIDE GEM/NIC.REMARKS ARE CHANGED ACCORDINGLY.
- REV02 NOT ISSUED.
- REV 01 IS BEING ISSUED TO CHANGE THE DUE DATE.
- 1. ENQUIRY IS BEING FLOATED IN "TWO BID " SYSTEMS. PLEASE SUBMIT YOUR OFFER IN TWO SEPARATE ENVELOPES AS PER DETAILS GIVEN BELOW: -
  - IN ENVELOPE "A"  
SHOULD CONTAIN YOUR TECHNO - COMMERCIAL OFFER ALONGWITH BLANK PRICE BID I.E. PRICE BID WITH RATES BLANK. PLEASE INDICATE CLEARLY ON THE COVER OF ENVELOPE "TECHNO - COMMERCIAL OFFER" AND ENQUIRY NO. WITH ENQUIRY DUE DATE. PLEASE ENSURE BLANK PRICE BID IS WITHOUT RATES OTHERWISE OFFER WILL BE BY-PASSED.
  - IN ENVELOPE "B"  
SHOULD CONTAIN PRICE BID ONLY AND INDICATE CLEARLY ON THE COVER OF ENVELOPE "PRICE BID" AND ENQUIRY NO.
- ENVELOPE A + B SHOULD BE SENT IN SEPERATE SEALED ENVELOPE ON WHICH ENQUIRY NO. AND DUE DATE IS TO BE MENTIONED ON COVER.
- 2. PLEASE SEND THE TECHNICAL BID (PART A) & PRICE BID (PART-B) AS PER ENCLOSED ANNEXURES ONLY.DEVIATION SHEETS CAN BE ATTACHED SEPARATELY.
- 3. PLEASE QUOTE WITH FIRM RATES OTHERWISE OFFER WILL BE BY-PASSED.
- 4. GUARANTEE AND TEST CERTIFICATE IS REQUIRED IN TRIPPLICATE ALONGWITH EACH SUPPLY.
- 5. TYPE TEST REPORT TO BE SUBMITTED ALONG WITH THE OFFER WHICH IS NOT OLDER THAN FIVE YEARS.
- 6. DRAWING WITH DETAILS SHALL BE SUBMITTED ALONGWITH OFFER. PLEASE SUBMIT DRAWINGS ALONGWITH TECHNO - COMMERCIAL OFFER.
- 7. VENDOR TO START MANUFACTURING ONLY AFTER DRAWING APPROVAL FROM BHEL.
- 8. LOADING SHALL BE APPLICABLE FOR NON-ACCEPTANCE OF NIT TERMS AND CONDITIONS.
- 9. INSPECTION BY CUSTOMER/TPI/BHEL AT SUPPLIER WORKS.
- 10.NO TENDER FEES IS APPLICABLE.
- 11.REVERSE AUCTION NOT APPLICABLE.
- 12.TENDER EVALUATION WILL BE IN INR ON TOTAL COST TO BHEL ON FOR BHEL JHANSI BASIS.
- 13.DELIVERY MENTIONED IN ENQUIRY IS TENTATIVE ONLY.SUPPLIERS TO QUOTE THEIR OWN DELIVERY TIME .
- 14.PGCIL APPROVED QUALITY PLAN IS APPLICABLE FOR RIP BUSHING.
- 15.ENQUIRY IS ISSUED TO M/S TRENCH.
- 16.A BIDDER SHALL NOT HAVE CONFLICT OF INTEREST WITH OTHER BIDDERS.



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SUCH CONFLICT OF INTEREST CAN LEAD TO ANTI-COMPETITIVE PRACTICES TO THE DETRIMENT OF PROCURING ENTITY'S INTERESTS. THE BIDDER FOUND TO HAVE A CONFLICT OF INTEREST SHALL BE DISQUALIFIED. A BIDDER MAY BE CONSIDERED TO HAVE A CONFLICT OF INTEREST WITH ONE OR MORE PARTIES IN THIS BIDDING PROCESS, IF:

- A) THEY HAVE CONTROLLING PARTNER (S) IN COMMON;  
OR
- B) THEY RECEIVE OR HAVE RECEIVED ANY DIRECT OR INDIRECT SUBSIDY/ FINANCIAL STAKE FROM ANY OF THEM; OR
- C) THEY HAVE THE SAME LEGAL REPRESENTATIVE/AGENT FOR PURPOSES OF THIS BID;  
OR
- D) THEY HAVE RELATIONSHIP WITH EACH OTHER, DIRECTLY OR THROUGH COMMON THIRD PARTIES, THAT PUTS THEM IN A POSITION TO HAVE ACCESS TO INFORMATION ABOUT OR INFLUENCE ON THE BID OF ANOTHER BIDDER,  
OR
- E) BIDDER PARTICIPATES IN MORE THAN ONE BID IN THIS BIDDING PROCESS. PARTICIPATION BY A BIDDER IN MORE THAN ONE BID WILL RESULT IN THE DISQUALIFICATION OF ALL BIDS IN WHICH THE PARTIES ARE INVOLVED. HOWEVER ,THIS DOES NOT LIMIT THE INCLUSION OF THE COMPONENTS/ SUB-ASSEMBLY/ ASS EMBLIES FROM. ONE BIDDING MANUFACTURER IN MORE THAN ONE BID;  
OR
- F) IN CASES OF AGENTS QUOTING IN OFFSHORE PROCUREMENTS, ON BEHALF OF THE IR PRINCIPAL MANUFACTURERS, ONE AGENT CANNOT REPRESENT TWO MANUFACTURERS OR QUOTE ON THEIR BEHALF IN A PARTICULAR TENDER ENQUIRY. ONE MANUFACTURER CAN ALSO AUTHORIZE ONLY ONE AGENT/DEALER. THERE CAN BE ONLY ONE BID FROM THE FOLLOWING:
  - 1. THE PRINCIPAL MANUFACTURER DIRECTLY OR THROUGH ONE INDIAN AGENT ON HIS BEHALF; AND
  - 2. INDIAN/FOREIGN AGENT ON BEHALF OF ONLY ONE PRINCIPAL, ?
- G) A BIDDER OR ANY OF ITS AFFILIATES PARTICIPATED AS A CONSULTANT IN THE PREPARATION OF THE DESIGN OR TECHNICAL SPECIFICATIONS OF THE CONTRACT THAT IS THE SUBJECT OF THE BID,  
OR
- H) IN CASE OF A HOLDING COMPANY HAVING MORE THAN ONE INDEPENDENTLY MANUFACTURING UNITS, OR MORE THAN ONE UNIT HAVING COMMON BUSINESS OWNER SHIP/MANAGEMENT, ONLY ONE UNIT SHOULD QUOTE. SIMILAR RESTRICTIONS WOULD APPLY TO CLOSELY RELATED SISTER COMPANIES. BIDDERS MUST PROACTIVELY DECLARE SUCH SISTER/ COMMON BUSINESS/ MANAGEMENT UNITS IN SAME/ SIMILAR LINE OF BUSINESS.

**THE QUOTATION MUST BE SEALED AND BE SENT IN DOUBLE ENVELOPE.**

**THE INNER ENVELOPE SHOULD BEAR ENQUIRY NUMBER & DUE DATE AT THE TOP.**

**In case the bidder has not submitted PAN No, TIN No. and E-mail ID, the bidder has to submit the same along with the copy of PAN No and TIN No. Else his offer will be liable to be rejected.**

**If you are not in a position to quote due to any reason, you must send regret letter titled enquiry no. etc, failing which you may not be considered for sending future enquiries.**

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**ENCLOSERS:**




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FOR AND ON BEHALF OF  
BHARAT HEAVY ELECTRICALS LTD

  
24.06.24  
RAHUL KUMAR  
DY MANAGER (TRFR MM)  
Email:-rahulkumar.r@bhel.in

\*\*\*\*\* END OF PURCHASE ENQUIRY\*\*\*\*\*

**NOTE :**

- \* THE BIDDER IS INFORMED THAT THE GENERAL TERMS & CONDITIONS OF ENQUIRY (JHS 2055A Rev 03) WHICH ARE UPLOADED AT <https://jhs.bhel.com/apps/sip/index.php> AT (TERMS & CONDITION -> FOR ENQUIRY ) LINK, ARE TO BE READ BY THE BIDDER BEFORE SUBMITTING QUOTE IN THE ENQUIRY. BHEL SHALL CONSTRU THE PARTICIPATION BY THE BIDDER IN ENQUIRY AS ACCEPTANCE TO THE GENERAL TERMS AND CONDITIONS OF ENQUIRY.
- \* SUPPLIERS ARE REQUESTED TO INFORM US WITH VALID CERTIFICATE,IF THEY ARE REGISTERED UNDER MSMED ACT'2006.(APPLICABLE FOR INDIAN SUPPLIERS ONLY).
- \* FOR SUPPLIERS SUPPLYING FROM OUTSIDE THE LOCAL AREA OF BHEL JHANSI,ENTRY TAX WILL BE APPLICABLE.SUPPLIERS SHOULD NECESSARILY INDICATE RATE OF ENTRY TAX SEPARATELY WHEREVER APPLICABLE.THEY SHOULD ALSO MENTION THE ENTRY TAX CHARGED SAPARATELY IN THE INVOICE.
- \* FOR SUPPLIERS SUPPLYING FROM OUTSIDE UP,IN CASE THE OFFER IS SILENT ON ENTRY TAX, IT SHALL BE LOADED SUITABLY WITH THE APPLICABLE RATES
- \* IN CASE IF THERE IS ANY DIFFERENCE BETWEEN THE 'SPECIAL REMARKS/ANNEXURES' OF THE ENQUIRY AND THE PREPRINTED TERMS & CONDITIONS (REF JSC140/M2053), THE REQUIREMENT GIVEN IN REMARKS WILL PREVAIL.
- \* Reference Sl. No. 2(B) of General Terms and Conditions regarding option for offer submission through Email addressed to [tenderbox.jhs@bhel.in](mailto:tenderbox.jhs@bhel.in) , please note that the maximum mail size including attachments should not exceed 15 MB , otherwise the offer shall not be delivered due to size limitation and bidder sending mail attachments more than 15 MB will have no claim whatsoever on the subject tender . Also due to any technical snag , if offer has not reached [tenderbox.jhs@bhel.in](mailto:tenderbox.jhs@bhel.in) , it will be bidder's sole responsibility to ensure offer submission through alternate routes before the due date and time .BHEL will not entertain any such claim for non-receipt of offer on time .

**PRICE BID, PART - B FOR ENQUIRY NO. E18240003**

**Supplier Name & Address:** .....

.....

**Currency of Quotation (Applicable for Foreign bidders only):** .....

<b>Enquiry item no.</b>	<b>Quoted rate in figure (per number basis in INR / Foreign Currency)</b>	<b>Quoted rate in words (per number basis in INR / Foreign Currency)</b>
<b>Enq. # 1</b>		

- Note:-**
1. By default, indigenous bidders' quotation will be in Indian Rupees (INR) and foreign bidders' will be in the currency quoted as above by them.
  2. The price bid submitted in any other fashion or by adding any condition (e.g. minimum order quantity, rates applicable for specified quantity, discount for quantity, rate based on slabs, rate based on terms of payment etc.), offer shall be straight way REJECTED even if, offer has been found technically & commercial acceptable before opening of price bid.

**Signature of Supplier** :

**Name** :

**Designation** :

**Seal** :

**Acceptance to salient Terms & Conditions of the Enquiry E18240003 i.e. Techno Commercial Bid**

*Important: This format is to be submitted in original, along with Part-A of bid, duly signed by the bidders, as proof of acceptance.*

Sl.No	DESCRIPTION	TO BE FILLED BY THE VENDOR
A-	Name of the Supplier with Telephone No./Fax No./Email	
B-	Name and Designation of Contact person	
C-	Address of the works at which inspection/delivery is offered.	

Sl. no.	Particulars	Supplier's Confirmation
1-	Complete acceptance to Technical terms & conditions including Technical/Purchase Specs as mentioned in <b>ENQUIRY</b>	<input type="checkbox"/> Accepted
2-	Participation by the Bidders in the tender shall be construed as acceptance of the bidder to the General Terms and Conditions JHS2055A-Rev-03 uploaded at <a href="https://jhs.bhel.com/apps/sip/enq_terms/enq_tems_current.pdf">https://jhs.bhel.com/apps/sip/enq_terms/enq_tems_current.pdf</a>  We confirm that we have read the GTC with applicable revision, and accepts the same.	<input type="checkbox"/> Accepted
3-	Acceptance for finalization of price bid Part-B through online Bidding (Reverse Auction)	<input type="checkbox"/> Accepted
4-	Conformance / Test Certificate/Guarantee Certificate (along with supply) as specified in enquiry will be provided.	<input type="checkbox"/> Yes
5-	<b>Delivery</b> period on CIF, basis from date of PO issue/Drawing approval, whichever is later.	.....Days.
7-	<b>Taxes and Duties (For Foreign bidders only)</b> :-All taxes and duties in their country will be borne by them only and in India same shall be to BHEL account. Refer GTC (JHS2055A-Rev-03) for more detail and same shall prevail.	<input type="checkbox"/> Accepted

8-	<b>Price Bid</b> submitted as per attached price bid format only (Copy of blank price Bid is submitted).	<input type="checkbox"/> Accepted
9-	<b>Acceptance for prices on firm basis and no PVC is applicable.</b>	<input type="checkbox"/> Accepted
11-	<b>Terms of delivery on CIF, basis.</b> (For Foreign bidders) (Pl mention name of Load Port)	<input type="checkbox"/> Accepted  Load Port.....
12-	<b>Validity</b> - Quoted prices are valid for 120 days from date of tender opening.	<input type="checkbox"/> Accepted
14-	<b>Terms of payment (For Foreign Bidders):</b> - Our Standard Payment terms is: (i) 100% Payment through CAD or (ii) 100% payment will be considered by irrevocable and unconfirmed Usance LC with 120 days' interest free credit, to be reckoned from the date of Bill of Lading	(i) <input type="checkbox"/> Accepted (ii) <input type="checkbox"/> Accepted
15-	<b>No Advance payment</b> terms will be accepted.	<input type="checkbox"/> Accepted
16-	<b>Liquidated Damage / Penalty</b> - Failure to supply by the time specified in the order will make the supplier liable to pay unconditional penalty of 1/2% of the price of the goods in arrear (delayed and not supplied) per week or part thereof, subject to a maximum of 10% of the order value unless agreed otherwise.	<input type="checkbox"/> Accepted
17-	<b>Risk Purchase</b> - If the material is not supplied within stipulated delivery indicated in PO, BHEL shall have the option to purchase the material from other sources at the supplier's risk & cost.	<input type="checkbox"/> Accepted
18-	<b>Guarantee:</b> In Case an order is placed, supplier shall be required to guarantee for smooth and satisfactory performance of the equipment for a period of 24 months from the date of receipt at BHEL Jhansi and certificate must be issued to this effect. Necessary instruction booklets for operation and maintenance are to be sent with supply, where applicable.	<input type="checkbox"/> Accepted
19-	Please furnish shipping Dimension & Weight of consignment in your offer. (For Foreign Suppliers)	No. of package ----- Dimension of each package 1- Length ----- 2- Width ----- 3- Height ----- 4- Weight -----

20-	<p>“The Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud prevention Policy displayed on BHEL website <a href="http://www.bhel.com">http://www.bhel.com</a> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.”</p>	<input type="checkbox"/> Accepted
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**Notes: -**

- 1) If rates are disclosed in covering letter or through any other format along with techno-commercial bid (Part-I), offer may not be considered.
- 2) **Evaluation of bid** will be done on landed cost to BHEL basis. Offers will be loaded for the deviation(s), if any, suitably. Hence, please quote accordingly.
- 3) In case of CIF, Mumbai incoterm, freight and insurance shall be added up to BHEL, Jhansi for arriving at L1/L2 status. Loading shall be done as per BHEL Freight contract.

**Signature of Supplier & seal** : .....

**Date** : .....

**Name of contact person** : .....

**Cell No.** : .....

**Landline with STD code & E-mail** : .....

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245kV, 1250A Amp. Resin Impregnated Paper (RIP) condenser bushing having 300mm CT space and meeting following additional requirements.

1. Bushings shall be robust and designed for adequate cantilever strength to meet the requirement of seismic condition, substation layout and movement along with the transformer with bushing erected.
2. The electrical and mechanical characteristics of bushings shall be in accordance with IEC: 60137/DIN 42530. All details of the bushing shall be submitted for approval and design review.
3. RIP type bushing shall be provided with tap for capacitance and tan delta test. Test taps relying on pressure contacts against the outer earth layer of the bushing is not acceptable
4. Mounting dimensions of bushing shall be as per drawing attached.
5. Porcelain used in bushing manufacture shall be homogenous, free from lamination. Cavities and other flaws or imperfections that might affect the mechanical or dielectric quality and shall be thoroughly vitrified, tough and impervious to moisture.
6. Polymer / composite insulator shall be seamless sheath of a silicone rubber compound. The housing & weather sheds should have silicon content of minimum 30% by weight. It should protect the bushing against environmental influences, external pollution and humidity. It shall be extruded or directly molded on the core. The interface between the housing and the core must be uniform and without voids. The strength of the bond shall be greater than the tearing strength of the polymer.
7. The manufacturer shall follow non-destructive technique (N.D.T.) to check the quality of jointing of the housing interface with the core. The technique being followed with detailed procedure and sampling shall be decided during finalization of MQP.
8. The weather sheds of the insulators shall be of alternate shed profile as per IEC 60815-3. The weather sheds shall be vulcanized to the sheath (extrusion process) or molded as part of the sheath (injection moulding process) and free from imperfections. The vulcanization for extrusion process shall be at high temperature and for injection molding shall be at high temperature & high pressure. Any seams / burrs protruding axially along the insulator, resulting from the injection moulding process shall be removed completely

without causing any damage to the housing. The track resistance of housing and shed material shall be class 1A4.5 according to IEC 60587. The strength of the weather shed to sheath interface shall be greater than the tearing strength of the polymer. The composite insulator shall be capable of high pressure washing.

9. End fittings shall be free from cracks, seams, shrinks, air holes and rough edges. End fittings should be effectively sealed to prevent moisture ingress. Effectiveness of sealing system must be supported by test documents. All surfaces of the metal parts shall be perfectly smooth with the projecting points or irregularities which may cause corona. All load bearing surfaces shall be smooth and uniform so as to distribute the loading stresses uniformly.
10. The hollow silicone composite insulators shall comply with the requirements of the IEC publications IEC 61462 and the relevant parts of IEC 62217. The design of the composite insulators shall be tested and verified according to IEC 61462 (Type & Routine test).
11. Clamps and fittings shall be of hot dip galvanized/stainless steel.
12. No arcing horns shall be provided on the bushings.
13. Offered bushing shall be fully type tested and PGCIL approved. Supplier to ensure before quoting that the offered RIP bushing's design/drawings/ MQP must have been suitable reviewed and approved by PGCIL.
14. Tan delta of bushings at any temperature should be less than 0.004 both at manufacturers work and also during final testing of transformer and during installation.
15. Type test report of the bushings shall not be older than 5 years at the time of supply.



S.No.	Components / Operations & Description of Test	Type of Check	Quantum of Check / Sampling with basis	Reference Document for Testing	Acceptance Norms	Format of Record	Applicable Codes						Remarks
							1	2	3	4	5	6	
1.11 (B)	RIP Bushing (if applicable)	All routine test as per Powergrid approved MQP of RIP bushing manufacturer, IEC 60137/Power Grid Specification and test on silicone Insulator as per IEC 61462/62217									E	CIP	
All Type tests required as per the contract in question need to be conducted / approval to be obtained from PGCIL Engg.											Approval from PGCIL Engg. Required		
1.11	Dowels in Bushing												

Standard Manufacturing Quality Plan- Power Transformer (Upto 220 kV Class)	
QAP No. :TXB 121 - ,Rev:P4	
Notes and codes	
<b>Code 1</b> Indicates place where testing is planned to be performed i.e. inspection location A At Equipment Manufacturer's works B At Component Manufacturer's works C At Authorised Distributor's place D At Independent Lab E At Turn Key Contractor's location F Not specified	<b>Code 2</b> Indicates who has to perform the tests i.e. Testing Agency J The Equipment Manufacturer K The Component Manufacturer L The Third Party M The Turnkey Contractor
<b>Code 3</b> Indicates who shall witness the tests i.e. Witnessing Agency P Component Manufacturer itself Q Component Manufacturer and Equipment Manufacturer R Component Manufacturer, Equipment Manufacturer and Contractor S Equipment Manufacturer itself T Equipment Manufacturer and Contractor U Equipment Manufacturer, Contractor and POWERGRID V Third Party itself	<b>Code 4</b> Review of Test Reports/Certificates W By Equipment manufacturer X By Contractor during product/process inspection Y By POWERGRID during product/process inspection Z By Contractor and/or POWERGRID during product/process inspection
<b>Code 5</b> Whether specific approval of sub-vendor / Component E Envisaged N Not Envisaged	<b>Code 6</b> Whether test records required to be submitted after final inspection for Y Yes N No
<b>NOTES:-</b>	
1	This MQP shall be read in conjunction with POWERGRID specification and shall deem to include additional test, if any, required as per the contract.
2	POWERGRID specification shall include provisions of Letter of Award (LOA), POWERGRID approved – drawings / technical data sheet / Bill of Material (BOM) /test procedure applicable to the specific contract.