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Electronics Corporation of India Limited
 A Government of India Enterprise
CONTROL & AUTOMATION DIVISION-PURCHASE
 ECIL Post, Hyderabad - 500 062.

ENQUIRY No. EC/PUR/TAD/

1964/929381

DATE : 2014.10.13

DUE DATE : 2014.11.03

Ph:

e-mail:

EXTRA COPY

Contact: M. PRASADA RAO, SPO

Dear Sir(s),

Kindly submit you quotation in a Sealed Envelope Superscribing Enquiry No. and Due Date for the supply of the following items as per terms and conditions overleaf to PURCHASE MANAGER - CONTROL & AUTOMATION DIVISION ECIL, HYDERABAD-62. QUOTATIONS AGAINST EACH TENDER SHALL BE SENT IN SEPARATE ENVELOPE. QUOTATIONS RECEIVED AFTER THE DUE DATE AND TENDERS SENT IN OPEN/UNSUPERSCRIBED ENVELOPE WILL BE REJECTED. PLEASE SEND REGRET LETTER, IF YOU ARE NOT ABLE TO QUOTE TO CONTINUE TO KEEP YOUR NAME IN OUR MAILING LIST.

IMPORTANT INSTRUCTIONS

Parties must give the following information otherwise offer may be rejected.

- | | |
|--|---|
| 1. Unit Rate and Terms of price | 6. Estimated Packing and Forwarding Charges |
| 2. Quantity discount if any | 7. Validity of quotation |
| 3. Rate of Excise Duty, Sales Tax if any | 8. Terms of payment |
| 4. Firm Delivery schedule | 9. Sales Tax Registration Number/
VAT and Service Tax Regn. No |
| 5. Mode of despatch | 10. SSI/NSI Regn. No. |

Sl.No.	Material Description and Specification	Estimated Requirement	
		Unit Code	Quantity
1	18 K OHMS, 32 KW NON-INDUCTIVE WIRE WOUND RESISTOR ELEMENTS.	Nos.	500
	<u>Special Notes.</u> 1. Data sheet/Catalogues shall be enclosed to your offer. 2. A Certificate of Compliance shall be submitted along with the consignment. 3. Our Terms of Payment : 90% payment will be made within 60 days of receipt of material at ECIL, subject to acceptance. Balance 10% payment will be made within 30 days of acceptance. 4. If you are unable to quote, send regret letter positively by mail. Our Mail ID rrc@ecil.co.in to enable us to keep you in mailing list. 5. Please quote Terms of Price as Free Delivery to our Stores. 6. You should be profit making company in the last preceding 3 financial years (ending by 31st March) 7. You should be preferably an ISO certified Company. 8. You shall submit Material Safety Data Sheet (MSDS) from the OEM for materials used. 9. You shall submit Material Datasheet for Resistance Wire 10. You shall provide the GA with dimensions and weight. 11. This is a TWO PART BID Tender.		

- NOTE:**
- CERTIFICATE OF COMPLIANCE/BATCH CERTIFICATE /CCOE/CMRI/ATX/WARRANTY TEST CERTIFICATE SHALL BE FURNISHED. PLEASE CONFIRM.
 - DATA SHEETS (CATALOGUES) SHALL BE SUPPLIED WITH THE QUOTATION.
 - IF THE MATERIAL IS COVERED UNDER DGS & D RATE CONTRACT. PLEASE QUOTE THE RATES ACCORDINGLY.
 - IF THE MATERIAL IS COVERED UNDER EXCISE, FURNISH EXCISE TARIFF NUMBER AND CLASSIFICATION.

Yours faithfully,

For Electronics Corporation of India Limited

M. PRASADA RAO
 Purchase Manager
 Control & Automation Division
 ECIL, HYD-62

ENQUIRY No. EC/PUR/TAD/	1964/929381
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DUE DATE :	

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- Estimated Packing and Forwarding Charges
- Validity of quotation
- Terms of payment
- Sales Tax Registration Number/
VAT and Service Tax Regn. No
- SSI/NSI Regn. No.

Sl.No.	Material Description and Specification	Estimated Requirement	
		Unit Code	Quantity
	a) Technical Bid and b) Price Bid.		

- NOTE:**
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Yours faithfully,

For Electronics Corporation of India Limited

Dr. P. V. S. RAO
 Director, Manager
 Control & Automation Division
 ECIL Post, Hyderabad - 500 062

Annexure to the Indent No: 929381 dated 18/8/14

Parameter	Specification
Type of resistor	Non-Inductive wire wound Resistor
Resistance	18 k Ω
Wattage	32kW (Pulsed for 1 sec.)
Operating voltage	24kVDC (across element)
L/R ratio for the resistor element	<10usec
Former	Micanite
Coating	High temperature silicon coating
Resistance Wire	Cu-Ni Alloy
Terminal	End flange of aluminum with SS M8 bolt
Operating duty cycle	3sec ON (100 ms ON & OFF) followed by 500 sec OFF & 1 sec ON followed by 500 sec OFF
Quantity	500 Nos.
Operating ambient temperature	5 °C – 45° C
Temperature coefficient of Resistance	500ppm max.
Tolerance	Initial value $\pm 5\%$ Stability $\pm 5\%$ (under peak loading condition)
Cooling	Air Natural for single element

Compliance Standard for resistor elements: IEC 60322 and IEC 60115

Application note: Combination of series/parallel resistor elements will be used as High voltage (100kVDC) Load Bank.

Note:

1. Resistor element must be compact ~75 ϕ x 500mm L preferably.
2. Winding pattern/design must ensure that pitch of the winding, turn to turn insulation is maintained for 24kV operation with due margin.
3. Cured Mica former and final resistor element must be low moisture absorbing.
4. Supplier must have experience of producing resistors for High Voltage load banks (100kV or beyond)

[Handwritten signature]

Indent No: 929381 Dt. 18/8/14

5. Supplier has to provide Material Safety Data Sheet (MSDS) from the OEM for materials used.
6. Coating materials for resistors and adhesives used for Micanite tube should satisfy UL 94 V0 and requirement of RoHS.
7. Materials shall produce only a small quantity of smoke of minimal opacity and toxicity.
8. All hardware must be ISO metric sizes.
9. Supplier has to provide Material Datasheet for Resistance Wire.
10. GA with dimensions and weight shall be submitted along with the offer

Tests on the resistor elements at Vendor's site (to be witnessed by ECIL personnel):

S.No.	Test	Sampling	Test Criteria	Acceptance Criteria
Routine Tests				
1	Visual check/dimensional check	All	Material & Dimensions shall be checked	Shall be as per the Technical Specifications
2	Measurement of resistance value	All	Resistance Measurement shall be done initially. (Cold, Initial)	Value should remain within the limits of tolerance specified Tolerance = Initial value $\pm 5\%$
Type Tests				
3	Temperature Rise Test (Test set up shall be provided by the ECIL/ITER-India)	10	32kW Pulse shall be applied for 1s ON/ 500s OFF consecutively till the former and terminations are thermalized	No cracks, bubble formation on surface should take place. Hottest Points shall be recorded Source for this test shall be IC-HVPS proto at IPR, Ahmedabad
4	Measurement of resistance value	10	Hot Resistance Measurement shall be done immediately after the temperature rise test	Value should remain within the limits of tolerance specified Tolerance = Initial value $\pm 5\%$
			Resistance Measurement shall be done after the temperature rise test and cooled down to ambient temperature. (Cold, after Thermal Test)	Value should not vary from that of the Test 1 by more than 3%
5	Measurement of inductance value @ 500kHz	10	Inductance Measurement shall be done initially and L/R shall be measured	L/R @ 500kHz < 10usec

[Signature]

ANNEXURE

Commercial Terms and Conditions

1. Earnest Money Deposit: EMD shall be submitted in the form of Bank Guarantee / DD for the value of Rs. 5 Lakhs along with the quotation. In respect of Small Scale Industries/Registered Approved Vendors/Government Departments, waiver of EMD may be considered as per Government guidelines. In such cases vendor should submit sufficient proof of documents.
2. Security Deposit : Shall be provided Rs.5 Lakhs value immediately after receiving the purchase order. However the amount deposit in the name of EMD. Performance Bank Guarantee shall be converted into Security Deposit to the successful vendor.
3. Delivery Schedule: Material is to be required within 3 months from the date of release of purchase order.
4. Payment Terms: 90% payment within 60 days from the date of receipt of material. Balance 10% within 30 Days credit.
5. Warranty: Should be provided for one year at free of cost and shall quote for extended warranty for 2 years.
6. Performance Bank Guarantee: Shall be executed for 10% of the order value during the warranty period.
7. Confidential Information and Non-Disclosure Agreement shall be provided on Rs.100/- Non-Judicial Stamp Paper.
8. Pre-dispatch Inspection: Required at source.
9. Liquidated Damages / Penalty Clause: In the event of any delay in supply beyond the stipulated delivery schedule, ECIL, at their option, LD will be recovered @ ½% per week on the value of undelivered goods, subject to a maximum 10% of the total order value.
10. Risk Purchase Clause: In the event of any failure of the seller to comply with the purchase order terms, the buyer has a right to cancel the order and proceed with an alternate source. In the event of proceeding with such an alternate source, the default vendor shall be liable to bear the extra cost which may incurred by the buyer.

11. Arbitration Clause : All disputes or differences whatsoever arising between two parties out of relating to the construction meaning and operation of effect of this contract or the breach of them shall be settled by arbitration in accordance with the rules of arbitration of the Indian Council of Arbitration is at Hyderabad/Secunderabad jurisdiction.

12. ECIL reserves the right to split the order by matching the L1 prices.

In respect of Small Scale Industries/Registered Approved Vendors/Government Departments, waiver of EMD may be considered as per Government guidelines. In such cases, the waiver should be accorded by the Divisional Head with the concurrence of the Divisional Finance. In the tender documents, it should be clearly informed that if any bidder makes a request for treating his available credit balance with ECIL, if any, as the requisite EMD in respect of a new quotation, such adjustment request will not be entertained and tender would be treated as invalid.