

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

POST SRINIVASNAGAR, MANGALORE – 575 025 (D K)

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NOTICE INVITING QUOTATION

Notification. No: NITK/E&E/2023-24/Q/003

dated: 05/03/2024

Name of Goods	Power Converter IGBT Module
Estimated Amount:	₹ 90,000/-
Time for Supply of item after release of Purchase order	30 Days
Document Download / Sale Start Date	05.03.2024, 5.00 PM
Clarification Start Date	Not applicable
Clarification End Date	Not applicable
Bid Submission Start Date	05.03.2024, 5.00 PM
Last Date for submission of bids	15.03.2024 before 3.00 PM
Bid Opening Date	15.03.2024, 4.00 PM
Address for Submission of bids	Department of Electrical and Electronics Engineering, National Institute of Technology Karnataka, Surathkal, Mangalore – 575025 Contact: Dr. V. Vignesh Kumar Ph.No. 7358895065



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NOTICE INVITING QUOTATION (NIQ)

The National Institute of Technology Karnataka, Surathkal (in short – NITK, Surathkal) is an Institute Of National Importance Under Ministry of Education Govt of India, imparting Technical Education and engaged in Research Activities. It is proposed to procure the items for the departmental academic/research activities.

Sealed Quotations as per the Price Schedule given in this NIQ are invited for the following items subject to the terms and conditions, from the reputed manufacturers or its authorised dealers so as to reach on or before scheduled date and time. The quotations in the firm's Business letter head should be address to the "Director, NITK, Surathkal". The envelope shall be superscribed with the Quotation Notification Number and the Name of the Goods for which quotation is submitted.

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Sd/-
HOD

Note: Institute shall not be responsible for any postal delay about non-receipt /non-delivery of the bids or due to wrong addressee.

SECTION-1
Terms and Conditions

1. The rates should be quoted for preferably FOR destination from supply within India.
2. The bidder shall indicate the excise duty exemption for the goods if applicable.
3. The rate quoted should be on unit basis. Taxes and other charges should be quoted separately, considering exemptions if any. The rate should be quoted in INR only
4. Rate quoted should be inclusive of Testing, commissioning and Installation of equipment and Training.
5. Payment: No advance payment will be made. Payment will be made only after the supply of the item in good and satisfactory condition and receipt of performance security by supplier.
6. Guarantee/Warranty period should be specified for the complete period should be specified in section 3 of this tender document.
7. Period requirement for the supply and installation of item should be specified in section 3 of this tender document.
8. In case of dispute, the matter will be subject to Mangalore Jurisdiction only.
9. **Liquidated Damages:** Timely delivery is the essence of the contract and hence if the Supplier fails to deliver Goods within the original/extended delivery period(s) specified in the contract, the Institute will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 1% per week or part of the week of the delayed period as pre-estimated damages not exceeding 5% of the contract value without any controversy/dispute of any sort whatsoever.

SECTION-2
SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED DETAILS
[To be filled up by the Department / Centre of NITK, Surathkal]

Item(s) Name to be Procured : Power Converter IGBT Module
Brief Specifications of the Item(s) :

- Intelligent IGBT power modules
- Collector-emitter Voltage 650 V or more
- Maximum collector current: 40 A or more
- Supply Voltage: 450 V
- Control Supply Voltage: 20 V
- Gate Driver Supply Voltage: 15 V
- PWM Frequency: 20kHz or more
- 3 half-bridges with anti-parallel diodes
- Bootstrap circuits
- Necessary snubber circuits
- Temperature monitor
- Under-voltage lockout at all channels
- Low side common emitter
- Single grounded power supply for gate drivers
- Integrated gate driver protection
- Cross-conduction prevention
- Current sensing on each phase
- Ultra-low turn-on and turn-off times
- PCB mount with proper heat sink
- Reconfigurable for single phase and three phase
- Piggyback mount for c2000 F28027F real time controller devices.
- Other Necessary control and protection circuits mounted on PCB

Quantity : 02
Any other details / requirement : nil
Warranty Period required : 1 Year

Delivery Schedule expected
after placement of Purchase order
(in Weeks) : 4 Weeks

SECTION 3
PRICE SCHEDULE

[To be used by the bidder for submission of the quotation]

-
1. Item Name :
 2. Specifications
(Conforming to Schedule of requirements
Enclose additional sheets if necessary) :
 3. Currency and Unit Price :
 4. Quantity :
 5. Item Cost (Sl No. 3 * Sl. No. 4) :
 6. Taxes and Other Charges :
(i) Specify the type of taxes and duties
in percentages and also in figures.
(ii) Specify Other Charges in figures.
 7. **Warranty Period** :
(Conforming to the Schedule of requirements)
 8. Delivery Schedule :
(Conforming to the Schedule of requirements)
 9. Name and address of the Firm for
placing purchase order :
 10. Name and address of Indian authorized
agent (in case of imports only) :

Signature of the Bidder: _____

Name and Designation: _____

Business Address : _____

Place:

Date:

Seal of the Bidder's Firm

SECTION 4
CONTRACT FORM

[To be provided by the bidder in the business letter head]

1. (Name of the Supplier's Firm) hereby abide by the delivery schedule mentioned in this document for supply of the items if the purchase order is awarded.
2. The item will be supplied conforming to the specifications stated in this document without any defect and deviations.
3. Warranty will be given for the period mentioned in this document and service will be rendered to the satisfaction of NITK, Surathkal during this period.

Signature of the Bidder: _____

Name : _____

Business Address : _____

Place :
Date :

Seal of the Bidder's Firm