

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

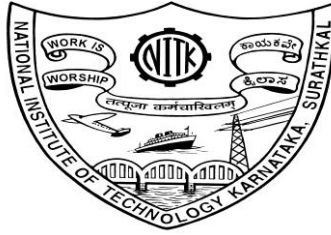
DEPARTMENT OF Electrical and Electronics Engineering
POST SRINIVASNAGAR, MANGALORE – 575 025 (D K)

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NOTICE INVITING QUOTATION

Notification. No: NITK/EED/2205

dated: 10/10/2023

| | |
|--|---|
| Name of Goods | BMS 16S Software Master and Slave BMS along with STM32 Programmer |
| Estimated Amount: | Rs. 40,000/- |
| Time for Supply of item after release of Purchase order | 14 Days |
| Document Download / Sale Start Date | 09/11/2023, 3:00 pm |
| Clarification Start Date | 09/11/2023, 3:00 pm |
| Clarification End Date | 16/11/2023, 3:00 am |
| Bid Submission Start Date | 09/11/2023, 3:00 pm |
| Last Date for submission of bids | 20/11/2023 before 3.00 PM |
| Bid Opening Date | 20/11/2023 before 3.30 PM |
| Address for Submission of bids | Dr. R Kalpana, Associate Prof., Dept. of EEE E mail: kalpana@nitk.edu.in Contact: +91-876-2245244 |



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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 | : BMS 16S Software Master and Slave BMS along with STM32 Programmer |
| Brief Specifications of the Item(s) (Attach Additional Sheet if necessary) | : Attached Separately |
| Quantity | : 01 |
| Any other details / requirement | : NIL |
| Warranty Period required | : 01 |
| Delivery Schedule expected after placement of Purchase order (in Weeks) | : 2 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

Technical Specifications

| Component | Description |
|--------------------|--|
| Master BMS | 16S Cell Voltage Monitoring |
| | 8 Temperature Sensors |
| | CAN Communication |
| | Balancing |
| | Datalogging |
| Slave BMS | 16S Cell Voltage Monitoring |
| | 8 Temperature Sensors |
| | Daisy Chain Communication with Master Device |
| | Cell Balancing |
| Wire Harness | For Master – 30 cm |
| | For Slave – 30 cm |
| Battery Simulator | Configurable up to 16 Cells |
| | 8 Tri-pots Resistors are available for temp. simulation |
| Contactors | Coil Voltage: 12V |
| Hall Effect Sensor | Max. Current: 50A |
| USB to PC Tool | St-link/V2 |
| | USB to TTL Converter |
| Compatibility | <ul style="list-style-type: none"> • The BMS should be compatible with a smart active balancer: balance current of four amps, accuracy one mV, battery type Li-Ion, and a power supply of 25–100V. • It should have a BMS hardware protection 16S,40A for over-voltage 67.2 V, under-voltage 46.4 V and a maximum current of 40A. • Battery Pack of 60V, 10 Ah NMC Soft Casing along with temperature sensor. • An initial two days training on master and slave BMS with STM32 microcontroller programming. |

