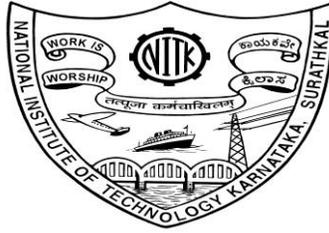


NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

DEPARTMENT OF MECHANICAL ENGINEERING
 POST SRINIVASNAGAR, MANGALORE – 575 025 (D K)
 Phone: (0824) 2474000. Fax: (0824) 2474033
 E- mail: info@nitk.ac.in Website: <http://www.nitk.ac.in>



NOTICE INVITING QUOTATION

Notification. No: NITK/DPD/OH35/IRG/2023-24/A8/17-4

Dated: 30/08/2023

Name of Goods	Stepper motor with driver and power supply NEMA 34
Estimated Amount:	1,50,000/-
Time for Supply of item after release of Purchase order	30 (Days)
Document Download / Sale Start Date	31/08/2023, 5.30 PM
Clarification Start Date	31/08/2023, 5.30 PM
Clarification End Date	27/09/2023, 5.30 PM
Bid Submission Start Date	31/08/2023, 5.30 PM
Last Date for submission of bids	30/09/2023 before 3.00 PM
Bid Opening Date	03/10/2023 After 10.00 AM
Address for Submission of bids	Dr. Arun Kumar Shettiger, Asst Professor Mechanical Engineering Department Ph: 9731652895



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL
DEPARTMENT OF _____

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Date: 30/08/2023

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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Bid Opening Date	03/10/2023 After 10.00 AM

**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.

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 : Stepper motor with driver and power supply NEMA 34

Brief Specifications of the Item(s)
(Attach Additional Sheet if necessary) : Document attached

Quantity : 05

Any other details / requirement :

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

Specifications

NEMA 34

Stepper motor specification

Step Angle : 1.8 Degree

Configuration: 4 wire bipolar stepper motor

Holding Torque: 45kgcm bipolar mode

Phase current : 4.2Amp

Resistance/phase: 0.87ohm

Inductance/Phase : 7.3mH

Rotor inertia: 1400 gcm²

Length (L): 80mm

Shaft Dia : 12.7mm

Shaft Length : 32mm

Weight: 2300 grams

Micro-Stepping Drive Features

Smooth and quiet operation at all speeds and extremely low motor heating

Industrial grade performance for 2-Phase Bipolar, 4-Phase and Uni-polar Stepper Motors

Input supply voltage from 18VDc to 80VDC

Selectable peak coil current from 1A to 7A

Inaudible 200kHz current chopping frequency

Selectable half-current during motor standstill to further reduce motor heating

Selectable micro-steps up to 20000 steps per rotation for a 1.8deg stepper motor

advanced loop control algorithm is required

2.5V, 3.3V and 5V compatible PULSE and DIRECTION inputs with 2-wire opto-isolated interface

Short-circuit protection for the motor outputs, over-voltage and under-voltage protection

LED indication for power and error states

Power supply

The suitable power supply for the motor and driver must supplied with the package.