DOC - 4

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 _____
POST SRINIVASNAGAR, MANGALORE – 575 025
Phone: (0824) 2474000 Fax: (0824) 2474033
E- mail: info@nitk.ac.in Website: http://www.nitk.ac.in

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

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**

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/Warrantee 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: **Seal of the Bidder's Firm**

Date:

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 : **Seal of the Bidder's Firm**
Date :

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 gcm^2
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.