

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

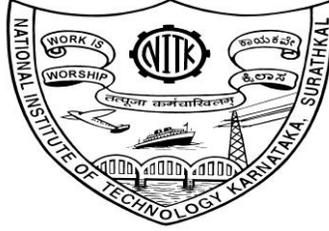
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## NOTICE INVITING QUOTATION

Notification. No: NITK/CSE/MPT/EMBRACE/2024/RCARK/448A/04

Date : 12-04-2024

Name of Goods	Remotely Controlled Antenna Rotator Kit
Estimated Amount:	₹ 90,000/- (including GST)
Time for Supply of item after release of Purchase order	45 days
Document Download / Sale Start Date	15-04-2024, 03:00 PM
Clarification Start Date	15-04-2024, 03:00 PM
Clarification End Date	22-04-2024, 03:00 PM
Bid Submission Start Date	15-04-2024, 03:00 PM
Last Date for submission of bids	29-04-2024 before 3.00 PM
Bid Opening Date	30-04-2024, 03:00 PM
Address for Submission of bids	Dr. Mohit P Tahiliani Associate Professor, Dept. of Computer Science & Engineering, NITK – Surathkal, PO Srinivasnagar, Mangalore – 575025 Dakshina Kannada District, Karnataka Contact No. : 0824 -2473410 E-mail : tahiliani@nitk.edu.in



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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.

<b>Name of Goods</b>	<b>Remotely Controlled Antenna Rotator Kit</b>
<b>Estimated Amount:</b>	<b>₹ 90,000/- (including GST)</b>
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**Sd/-**  
**Head of the Department**

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 ]

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Item(s) Name to be Procured	: Remotely Controlled Antenna Rotator Kit
Brief Specifications of the Item(s) (Attach Additional Sheet if necessary)	: Attached
Quantity	: 01 Kit
Any other details / requirement	: Nil
Warranty Period required	: One Year
Delivery Schedule expected after placement of Purchase order (in Weeks)	: 7 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]

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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** : \_\_\_\_\_

\_\_\_\_\_

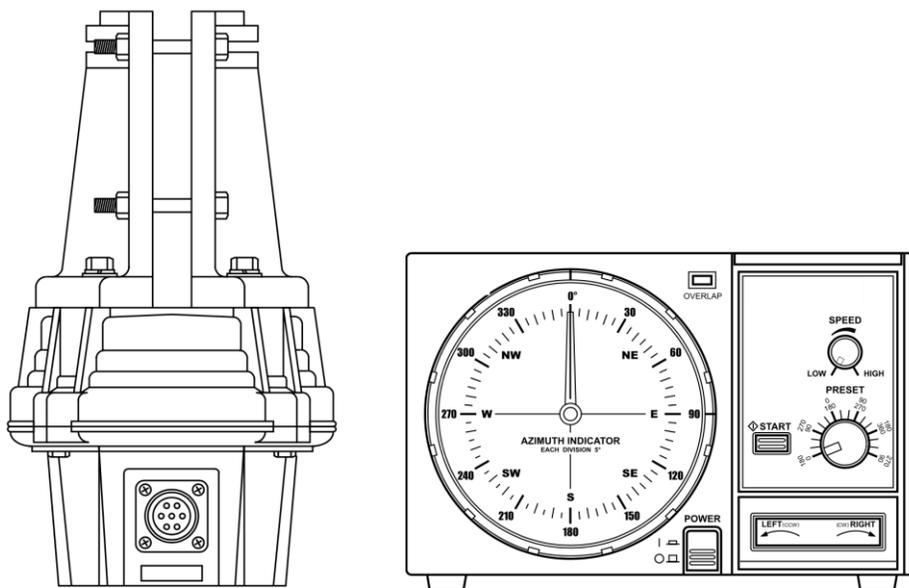
**Place :**

**Date :**

**Seal of the Bidder's Firm**

**Specifications for Remotely Controlled Antenna Rotator Kit**

The antenna rotator requires a versatile power supply, functioning on either 117 - 220 VAC at 50 or 60 Hz. Current consumption should be adjusted based on the selected voltage, drawing 1 Ampere at 117 VAC and a lower 0.5 Ampere at 220 VAC. The rotator should operate on a separate voltage range of 11 to 24 Volts DC. In terms of movement, the rotator should boast a variable rotation speed. With no load, it should complete a full 360-degree turn in a time ranging from 100 seconds (with a 10-second allowance) down to a speedy 40 seconds (with a 5-second tolerance). Additionally, the rotator should offer a broad rotation range, exceeding 450 degrees with a margin of error of only 3 degrees. It should deliver a rotation torque ranging from 600 to 1,100 kgf-cm, strong braking torque of 6,000 kgf-cm. Furthermore, it should be built to handle significant vertical loads. continuously support antennas weighing up to 200kg and withstand momentary loads of up to 800 kg. The rotator to be designed to mount on masts with outside diameters ranging from  $\phi 38$  to  $\phi 63$ .



**Schematic diagram of the Remotely Controlled Antenna Rotator Kit**

To ensure secure antenna positioning even in windy conditions, it should have a dual braking system with both mechanical and electrical stoppers. The rotator must be compatible with antennas with a K factor of 230 or less. For safety reasons, the rotator should have a maximum continuous duty cycle of 3 minutes, operate within a broad temperature range, with the controller functioning between 0°C and +40°C (+32°F to +104°F) and the rotator itself handling temperatures from -20°C to +40°C (-4°F to +104°F). The rotator diameter, approximately  $\phi$ 186 mm and a height of 300 mm, with a weight less than 4 kilograms (kg). The accompanying controller dimensions should not be more than (W x H x D): 230 x 130 x 195 mm, weighing less than 3 kilograms (kg).

Quantity: 01 Kit

Warranty: One Year

Delivery Location: SEARCH Site, NITK Surathkal

Sd/-  
Faculty in-charge of  
Purchase (Buyer)

Sd/-  
HOD  
CS&E