

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

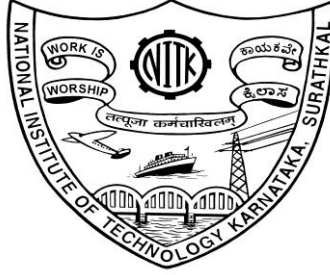
POST SRINIVASNAGAR, MANGALORE – 575 025 (D K)

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## NOTICE INVITING QUOTATION

Tender Notification No: NITK/CSE/SERB /2023/IOT/2496/4

Dt: 19-12-2023

|  |  |
|--|--|
| <b>Name of Goods</b>   | <b>IOT Devices and Accessories</b>   |
| <b>Estimated Amount:</b>                                       | Rs. 1,78,489.00 (Including GST)  |
| <b>Time for Supply of item after release of Purchase order</b> | 30 days  |
| <b>Document Download / Sale Start Date</b>                     | 21/12/2023, 3.00 p.m.  |
| <b>Clarification Start Date</b>                                | 21/12/2023, 3.00 p.m.  |
| <b>Clarification End Date</b>                                  | 27/12/2023, 3.00 p.m.  |
| <b>Bid Submission Start Date</b>                               | 21/12/2023, 3.00 p.m.  |
| <b>Last Date for submission of bids</b>                        | 11/01/2024 before 3.00 p.m.  |
| <b>Bid Opening Date</b>  | 12/01/2024, 3.00 p.m.  |
| <b>Address for Submission of bids</b>                          | <b>Dr. Biswajit R. Bhowmik</b><br>Asst. Professor<br>Department of Computer Science & Engineering<br>NITK-Surathkal, PO Srinivasnagar<br>Mangaluru -575025,<br>Dakshina Kannada District, Karnataka<br>Contact No: +91-824-2473164<br>E- mail: brb@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.

|  |                                    |
|--|------------------------------------|
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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.

**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 : IOT Devices and Accessories

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

Quantity : As per specification

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]

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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**

**Department of Computer Science & Engineering, NITK-Surathkal**

**Specification of IOT Devices and Accessories**

| <b>Sl. No</b> | <b>Item Details</b>                           | <b>Description</b>  | <b>Qty</b> |
|---------------|---|---|------------|
| 1.            | Arduino Uno                                   | Arduino Uno R3 with Cable   | 10         |
| 2.            | Arduino Nano 33 BLE Sense with headers        | Original Arduino Nano 33 BLE Sense  | 3          |
| 3.            | NodeMCU- ESP8266                              | ESP8266 NodeMCU CP2102 Board  | 10         |
| 4.            | Arduino Nano 33 IoT                           | Original Arduino Nano 33 IOT  | 6          |
| 5.            | Arduino UNO WiFi REV2                         | Original Arduino UNO WiFi REV2  | 2          |
| 6.            | Arduino Oplà IoT Kit                          | Arduino OPLÀ IoT Kit  | 1          |
| 7.            | Raspberry Pi 4 (4/8 GB)                       | Raspberry Pi 4 Model-B with 8 GB RAM  | 2          |
| 8.            | Raspberry Pi Zero 2 W                         | Raspberry Pi Zero 2W  | 2          |
| 9.            | Raspberry Pi 3 Model B+.                      | Raspberry PI 3 Model B+ Motherboard (Raspberry Pi 3 Model B+)                         | 2          |
| 10.           | Raspberry Pi Touch Display                    | 7" Official Raspberry Pi Display with Capacitive Touchscreen                          | 2          |
| 11.           | Raspberry Pi High Quality Camera              | Official Raspberry Pi High Quality Camera- C/CS Mount                                 | 2          |
| 12.           | Raspberry Pi Camera Module 2 NoIR             | Official Raspberry Pi Camera NOIR V2  | 2          |
| 13.           | Raspberry Pi 4 Case                           | Official Raspberry Pi 4 Case-Red-White  | 2          |
| 14.           | Raspberry Pi Mouse                            | Official Raspberry Pi Mouse (White/Red)   | 3          |
| 15.           | Raspberry Pi Keyboard and Hub                 | Official Raspberry Pi Keyboard, White/Red   | 3          |
| 16.           | Raspberry Pi 4 Case Fan                       | Official Raspberry Pi 4 Case Fan  | 2          |
| 17.           | USB and HDMI cables                           | Official Micro-HDMI (Male) to Standard HDMI (Male) Cable for Raspberry Pi             | 3          |
| 18.           | Raspberry Pi 5-15W USB-C Power Supply/Adapter | Official USB type-C 15.3W Power Supply For Raspberry Pi 4                             | 3          |
| 19.           | Sense HAT                                     | Raspberry Pi Sense HAT for the Pi 3/2/B+/A+ Model                                     | 2          |
| 20.           | PoE+ HAT                                      | Raspberry PI POE+ Hat for 3B+ and Pi 4  | 2          |
| 21.           | Raspberry Pi 4 Desktop Kit (4, 8 GB)          | Official Raspberry Pi 4 Desktop Kit with Guide Book                                   | 1          |
| 22.           | Micro-SD card 32GB                            | SanDisk Micro SD/SDHC 32GB Class 10 Memory Card                                       | 2          |
| 23.           | Micro SD card 64 GB                           | SanDisk Micro SDXC USH-I 64GB Class 10 Memory Card                                    | 2          |
| 24.           | Soil moisture sensor                          | Soil Moisture Meter, Soil Humidity Sensor, Water Sensor, Soil Hygrometer for Arduinio | 2          |
| 25.           | Humidity + temperature sensor                 | Humidity Sensor (DHT11)   | 2          |
| 26.           | PIR Motion Sensor Detector                    | PIR Motion Sensor Detector Module HC-SR501  | 2          |
| 27.           | Temperature sensor                            | Temperature Sensor (DS18B20)  | 2          |
| 28.           | Smoke Sensor                                  | MQ-2 Smoke LPG Butane Hydrogen Gas Sensor Detector Module                             | 2          |
| 29.           | Ultrasonic sensor                             | HC SR04 ultrasonic sensor   | 2          |
| 30.           | Camera  | Camera Image Sensor Module for Arduino, ARM and other MCU                             | 2          |
| 31.           | Fingerprint Sensor                            | AS608 Optical Fingerprint Sensor Fingerprint Module                                   | 2          |

|                 |  |  |   |
|-----------------|--|--|---|
| 32.             | Touch sensor   | Digital Sensor TTP223B Module Capacitive Touch Switch  | 2 |
| 33.             | Pulse Sensor   | Heart Beat Pulse Sensor Amped  | 2 |
| 34.             | Temperature Sensor   | LM35 Temperature Sensor  | 2 |
| 35.             | Humidity Sensor  | Humidity Sensor (DHT11)  | 2 |
| 36.             | Accelerometer  | Accelerometer (ADXL335)  | 2 |
| 37.             | ECG Module   | ECG Module (AD8232)  | 2 |
| 38.             | Pulse Oximeter Heart Rate Sensor Module                                      | MAX30100 Pulse Oximeter Heart Rate Sensor Module   | 2 |
| 39.             | Accelerometer and gyroscope (detect sleep, abnormal movements and behaviors) | MPU-6050 3-Axis Accelerometer and Gyroscope Sensor   | 2 |
| 40.             | Solenoid valve   | 12V DC 1/2" Electric Solenoid Water Air Valve Switch   | 2 |
| 41.             | Buzzer   | Electronic Spices DC Big Buzzer with Small Enclosed Piezo Electronic Buzzer Alarm 95DB with Wires PACK OF 2  | 2 |
| 42.             | Stepper motor  | Robotbanao 28ybj-48 Dc 5v 4 Phase 5 Wire Stepper Motor with Uln2003 Driver Board, Multi  | 2 |
| 43.             | Servo motor  | TowerPro SG 90 Micro Servo Motor   | 2 |
| 44.             | Arduino Bluetooth (Arduino BT)   | HC-05 TTL Bluetooth Transceiver Module (Without Button)  | 2 |
| 45.             | ESP8266 WIFI module  | ESP-01 ESP8266 Serial WIFI Wireless Transceiver Module   | 5 |
| 46.             | Ethernet Shield  | Ethernet W5100 Shield Network Expansion Board w/ Micro SD Card Slot for Arduino  | 2 |
| 47.             | LCD Shield   | Cytron LCD keypad Shield High Quality  | 3 |
| 48.             | Jumper wires   | Robotbanao 200mm (20cm) 120 Pieces Male to Male, Female to Female, Male to Female Dupont Cable Jumper Wire - Multicolor - 40 Pieces Each               | 5 |
| 49.             | LEDs   | Robotbanao Electronic Components Kit-DIY Projects-Small Prototyping Projects-For Science Projects-For Educational Purposes-For Learning- 58 Components | 2 |
|                 | LDR  |  |   |
|                 | Breadboard   |  |   |
|                 | DC motor   |  |   |
|                 | Resistors  |  |   |
|                 | Capacitors   |  |   |
|                 | Battery  |  |   |
|                 | Potentiometer 10K  |  |   |
| 50.             | 4*4 Keypad   | 4x4 Matrix 16 Keypad Keyboard Module 16 Button   | 3 |
| 51.             | <a href="#">Relay Module</a>   | Robotbanao 5V Single Channel (1 Channel)   | 5 |
| <b>Warranty</b> |  | <b>1 Year</b>  |   |

Sd/-

Dr. Biswajit R. Bhowmik  
Faculty in-charge of Purchase (buyer)

Sd/-  
H.O.D