

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

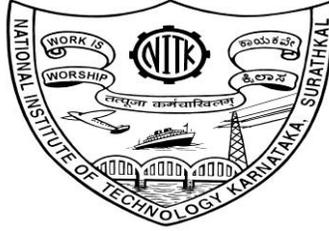
DEPARTMENT OF DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
POST SRINIVASNAGAR, MANGALORE – 575 025 (D K)

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## NOTICE INVITING QUOTATION

Notification No: NITK/CSE/OH-35/2023/Arduino/995/4

Dt: 08-09-2023

<b>Name of Goods</b>	<b>Arduino Nano 33 IoT, Sensors, Relay, Cables, and Connectors</b>
<b>Estimated Amount:</b>	Rs. 1.18 Lakhs (Including Tax)
<b>Time for Supply of item after release of Purchase order</b>	30 Days
<b>Document Download / Sale Start Date</b>	12/09/2023, 3.00 PM
<b>Clarification Start Date</b>	12/09/2023, 3.00 PM
<b>Clarification End Date</b>	15/09/2023, 3.00 PM
<b>Bid Submission Start Date</b>	12/09/2023, 3.00 PM
<b>Last Date for submission of bids</b>	29/09/2023 before 3.00 PM
<b>Bid Opening Date</b>	02/10/2023, 3.00 PM
<b>Address for Submission of bids</b>	<b>Dr. Mahendra Pratap Singh</b> Assistant Professor Dept. of Computer Science & Engineering NITK - Surathkal, PO Srinivasnagar, Mangalore - 575025 Dakshina Kannada District, Karnataka Contact No. : 0824-2473402 E-mail : <a href="mailto:mp_singh@nitk.edu.in">mp_singh@nitk.edu.in</a>



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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 ]

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Item(s) Name to be Procured : Arduino Nano 33 IoT, Sensors, Relay, Cables, and Connectors

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 :**

**Seal of the Bidder's Firm**

**Date :**

**Technical Specification of Arduino Nano 33 IoT is based on the SAMD21 microcontroller and Accessories**

<b>Sl. No.</b>	<b>Category of the Item</b>	<b>Name of the Item</b>	<b>Quantity</b>
<b>1.</b>	<b>IoT</b>	<b>Arduino Nano 33 IoT</b>	<b>10 nos.</b>
Specification			
	Microcontroller	SAMD21 Cortex®-M0+ 32bit low power ARM MCU	
	Radio module	u-blox NINA-W102	
	Secure Element	ATECC608A	
	Operating Voltage	3.3V	
	Input Voltage (limit)	21V	
	DC Current per I/O Pin	7 mA	
	Clock Speed	48MHz	
	CPU Flash Memory	256KB	
	SRAM	32KB	
	Digital Input / Output Pins	14	
	PWM Pins	11 (2, 3, 5, 6, 9, 10, 11, 12, 16 / A2, 17 / A3, 19 / A5)	
	UART	1	
	SPI	1	
	I2C	1	
	Analog Input Pins	8 (ADC 8/10/12 bit)	
	Analog Output Pins	1 (DAC 10 bit)	
	External Interrupts	All digital pins (all analog pins can also be used as interrupt pins, but will have duplicated interrupt numbers)	
	LED_BUILTIN	13	
	USB	Native in the SAMD21 Processor	
	IMU	LSM6DS3	
<b>2.</b>	<b>Sensors</b>	DHT22	20 Nos.
		MQ-4	20 Nos.
		MQ-5	20 Nos.
		MQ-7	20 Nos.
		MQ-135	20 Nos.
		M12	01 Nos.
		Camera Image Sensor	05 Nos.
		Soil Test Sensor	01 Nos.
<b>3.</b>	<b>Cables</b>	Jumper Wire	Male to Male -08 Nos. Male to Female -02 Nos.
		Micro USB 3A Cable	20 Nos.
<b>4.</b>	<b>Relay</b>	Double Channel	02 Nos.
		Single Channel	14 Nos.
<b>5.</b>	<b>Connectors</b>	Bread Board	15 Nos.
		Adapter with wire	15 Nos.
<b>6</b>	<b>Warranty</b>	1 Year	