



राष्ट्रीय प्रौद्योगिकी संस्थान वरंगल
NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL
(शिक्षा मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)
(An Institute of National Importance under Ministry of Education, Govt. of India)
तेलंगाना / Telangana – 506004, India.

NOTICE INVITING QUOTATIONS (NIQ)

Notification. No: NITW/P&S/NIQ/D6/2025-26/TURTLE BOT/EE

Date: 16-03-2026

Name of Goods/Services	Supply of TURTLEBOT3 Burger RPi4 4GB (with specifications as mentioned in Annexure-I)
Time for Supply of item after release of Purchase order	Within one week, after award of contract
Last Date for submission of bids	23-03-2026 before 5.00 PM
Name, Designation, and address of the indenter	Dr. Meher Preetam Korukonda, Assistant Professor, Department of Electrical Engineering National Institute of Technology Warangal Hanumakonda – 506 004, Telangana Phone: 8960231466
Address for Submission of bids [Type Address of the Department and Contact Person Details with Phone Number]	Shri.Veera Manikanth, Deputy Registrar, Purchase and Stores Section, NIT Warangal, Kazipet, Warangal – 506004 Phone: 0870- 246 2910



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The National Institute of Technology Warangal (in short – NIT Warangal) 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/ works subject to the terms and conditions, from the reputed manufacturers or its authorized dealers or local vendors 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, NIT Warangal". The envelope shall be super-scribed with the Quotation Notification Number and the Name of the Goods/Services for which quotation is submitted.

Name of Goods/Services	Supply of TURTLEBOT3 Burger RPi4 4GB (with specifications as mentioned in Annexure-I)
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[Signature of HOD with Seal]

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 preferably for a FOR destination from the supply within India.
2. The bidder should submit the following:
 - The bidder shall have a valid GST Registration certificate.
 - The bidder must provide a valid PAN Card.
 - The bidder should not be blacklisted by any Govt. Agency/Dept. [A declaration to this effect is to be submitted on the Company/ Business Letter Head]
3. The rate quoted should be on a unit basis. Taxes and other charges should be quoted separately, considering exemptions if any (as per the prescribed format).
4. Rate quoted should be inclusive of Testing, Commissioning and Installation of equipment and Training. After the supply of the items, within the delivery period as mentioned in the order, a certificate to this effect should be obtained from the user department regarding satisfactory installation & commissioning of the item and the same should be produced along with your bill in consultation with the user department/consignee.
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 (if applicable) by the supplier.
6. Quotations with vague and indefinite expressions such as "subject to prior confirmation", "subject to immediate acceptance" etc. will be treated as vague offers and rejected accordingly. Any conditional quotation shall be rejected summarily.
7. Warranty: Items under order should be warranted for satisfactory performance against manufacturing defects and faulty workmanship (with onsite support) for a period of **1 year** from the date of installation commissioning & training at our user department. If during the warranty period the items are found not manufactured to the specifications and does not conform to the standard reliability, the items shall be replaced/ rectified by the supplier at his risk and cost within a reasonable period of intimation about the defects in writing to the supplier.
8. Training: The service provider shall conduct a training (if applicable).
9. Quotations must be in the enclosed prescribed Proforma on the letterhead of the firm duly signed by the Proprietor/Partner/Director or their authorized representative, in case of signing of quotation by the authorized representative letter of authorization must be attached with the quotation.
10. Liquidated Damage: - If the contractor fails to complete work within the specified period, then a penalty at the rate of 0.5 % per day of the total Work Order value shall be levied subject to a maximum of 10% of the total work order value or forfeit the security deposit without assigning any reason what so ever.
11. NIT Warangal reserves the right to increase or decrease the quantity and/ or amount of work. The decision of Quantity of work in the NIT Warangal will be final in this regard.
12. NIT Warangal reserves the right to reject any quotation or part or the whole of the inviting quotation process without assigning any reason. The decision of the NIT Warangal will be final in this regard.
13. The quotations received after the mentioned deadline & unsealed shall not be entertained under any circumstances whatsoever. In case of postal delay, this Institute will not be responsible.
14. In case of dispute, the matter will be subject to Warangal Jurisdiction only.

SECTION-2

SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED DETAILS

[To be filled up by the Department / Centre of NIT Warangal]

Item(s) Name to be supplied	Supply of TURTLEBOT3 Burger RPi4 4GB (with specifications as mentioned in Annexure-I)
Brief Specifications of the Item(s) (Attach Additional Sheet if necessary)	Attached as Annexure-I
Quantity	04
Any other details/requirement	As per NIQ
Warranty Period required	01 Year
Delivery Schedule expected after placement of Purchase order (in days)	Within one week, after award of contract.

"Supply of TURTLEBOT3 Burger RPi4 4GB"

TURTLEBOT3 Burger RPi4 4GB	
The TurtleBot3's core technology of <u>SLAM</u> , <u>Navigation</u> and <u>Manipulation</u> makes it suitable for a wide variety of research and service robotics applications.	
Dimensions	138mm x 178mm x 192mm
Weight (with SBC + Battery + Sensors)	1kg
Max Payload	15kg
Power	Input : 100-240V, AC 50/60Hz, 1.5A @max Output : 12V DC, 5A
Climbing Threshold	10 mm or lower
SBC (Single Board Computer)	Raspberry Pi 4
MCU	32-bit ARM Cortex®-M7 with FPU (216 MHz, 462 DMIPS)
Maximum translational velocity	0.22 m/s
Expansion pins	GPIO 18 pins Arduino 32 pin
Peripheral Connections	UART x3 ADC x5 CAN x1 SPI x1, I2C x1 5pin OLLO x4
DYNAMIXEL ports	RS485 x 3, TTL x 3
Actuator	XL430-W250
On board sensors	LDS (Laser Distance Sensor) 360 Laser Distance Sensor <u>LDS-02</u> Position Sensor Contactless Absolute Encoder (12bit, 360°)
Audio	Several programmable beep sequences
Programmable LEDs	User LED x 4
Battery	Lithium polymer 11.1V 1800mAh / 19.98Wh 5C
IMU	Gyroscope 3 Axis Accelerometer 3 Axis
Connectivity	PC Connection -USB TTL Level Multi Drop Bus
Firmware Upgrade	via USB / via JTAG
Motors	DYNAMIXEL (<u>XL430-W250-T</u>)
Boards	<u>OpenCR1.0</u> *Raspberry Pi USB2LDS
Memory	MicroSD Card
Software	This package was built on Ubuntu 22.04 and ROS2 Humble, Python 3.10.
D. Monitors	Board status LED x 1 Arduino LED x 1 Power LED x 1
E. Power Adapter (SMPS)	Input : 100-240V, AC 50/60Hz, 1.5A @max Output : 12V DC, 5A
F. Battery Charging	LIPO Battery Charger

SECTION 3

PRICE SCHEDULE

[To be used by the bidder for submission of the quotation]

SI No.	Item Description	Quantity Required	Rate Per Unit in Rs.	Total Amount in Rs.
1.	Supply of TURTLEBOT3 Burger RPi4 4GB (with specifications as mentioned in Annexure-I)	04		
Sub Total				
GST				
Grand Total in Rs.				

1.	Delivery Schedule (Conforming to the Schedule of requirements)	
2.	Name and address of the Firm for placing purchase order	

Signature of the Bidder: _____

Name and Designation: _____

Business Address : _____

Place:
Firm
Date:

Seal of the Bidder's

SECTION 4

CONTRACT FORM

[To be provided by the bidder in the business letter head]

1. (Name of the Supplier/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 NIT Warangal during this period.

Signature of the Bidder: _____

Name : _____

Business Address : _____

Place:

Date:

Seal of the Bidder's Firm