

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

N.I.T. Campus (P.O.), Kerala - 673601,

India Tel. : 0495228 , 133, 115, 116

EMAIL :purchase@nitc.ac.in

QUOTATION NOTICE

MAIN STORE

Date : 15-09-2026

SEALED QUOTATIONS are invited for the supply of the stores given in Schedule C. **The tenderers are requested to send their quotations (as per the format given in schedule D) in sealed covers with the quotation reference number and last date for receipt of quotation super scribed.** Wherever indicated, samples may be furnished at the tenderer's expense unless otherwise specified. The tenderers are requested to follow the instruction given in Schedule A. This Institute cannot accept terms and conditions of payment other than the alternative given in Schedule B.

1. Quotation Ref No. **NITC/S&P/S3/661/ECED/Plan/EQPT/2026-27**
2. Last Date for receipt of Quotation **06-10-2026** Upto (IST) Time **4:00 PM**
3. The quoted rates should be valid up to **4 Months**
4. Address to which quotation are to be sent

The Assistant Registrar (Store & Purchase)
NIT Calicut
NIT Campus (P.O.)
673 601



To

1.

AR (S&P)

Approved for issue

D. Suresh
15/9/26

सहायक कुलसचिव (एस & पी)
Assistant Registrar (S & P)
राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट
National Institute of Technology Calicut
केरल - ६७३६०१ / Kerala - 673601

SCHEDULED A - INSTRUCTIONS TO TENDERERS

- (a) Quotations should contain the complete specification and brand names.
- (b) All taxes, packing and forwarding charges (if any) and any other charges should be clearly shown
- (c) Prices quoted should be for delivering at the premises of NIT CALICUT.
- (d) Period within which the items can be supplied of firm order should be clearly mentioned.
- (e) Quotations containing conditions like "subject to prior sale" may not be considered.
- (f) Quotations received after the due date is liable to be rejected.
- (g) An integrity pact should be executed between the buyer and the bidder/vendor for all the contracts.

SCHEDULED B - CONDITIONS OF PAYMENT

One of the following conditions of payment should be accepted if the quotation is to be considered.

- (a) 100% payment after the receipt of the items in good condition.
Normally, complete payment will be made within 45 days from the date of receipt/installation of the items in good condition.
- (b) The supplier shall furnish Performance Security Deposit and Form Contract as follows:

- (i) Execute a Form of contract as per Institute standard format on Govt. of India stamp paper worth Rs.200/-.
- (ii) In case of value of supply order above Rs.10,00,000 with warranty for the item, furnish a performance security deposit@3% of the basic cost for the due fulfillment of the contract. This security shall be in the form of DD in favour of the Director, NIT Calicut payable at SBI, Calicut REC Branch (Code2207) OR Bank Guarantee from any nationalized bank valid for a period of sixty days beyond the contractual obligations including warranty

(c) In case the supplier fails to deposit the required security and execute the contract bond on stamped paper of GOI or Govt. of Kerala (Specimen enclosed) by the due date, contract is liable to be cancelled without prejudice to taking any further action to recover damages for any loss sustained by THE DIRECTOR as result of supplier's refusal to abide by the terms of contract

- (a) Invoice number and date
- (b) Customer name
- (c) Customer and taxpayer's GSTIN (if registered)
- (d) Place of supply
- (e) Item details i.e. description, quantity (number), unit (meter, kg etc.), total value
- (f) Taxable value and discounts
- (g) Rate and amount of GST tax rates.
- (h) Signature of the supplier.
- (i) PAN number should be indicated.

SCHEDULED C - Technical Specification and Delivery Terms

(See Annexure - I)

SCHEDULED D - Format of Quotations

(For use of the bidder. See note below)

Format of Quotations

Quotation Ref. No.:

Last Date :

Sl.No.	Description of Goods (Attach necessary brochures)	Specification	Qty.	Unit	GST	Other Charges (if any)	Total Cost
GRAND TOTAL							

1. We agree to supply the above goods in accordance with the technical specification for a total contract price of Rs. _____ (amount in figures) (Rupees _____ only) (amount in words) within the period specified in the Invitation for Quotations.
2. We also confirm that commercial warranty/guarantee of _____ months shall apply to the offered goods from the date of installation/commissioning.
3. We undertake that in competing for (and if the award is made to us in executing) the above contract of supply of goods. We will strictly observe the laws against fraud and corruption in force in the Republic of India as required by National Institute of Technology Calicut.

Signature of the Bidder

Place:

Date:

Note:

1. Above tabular form is applicable while bids are being invited for more than one item and will be evaluated for all the items together. Modify the format accordingly where evaluation would be made for each item separately.

List of Enclosures:1) Annexure 1

SCHEDULE C :

Sl. No.	Detailed Description	Quantity	Whether Samples are to be sent
1.	Procurement of Radar Sensor Development Kit (Detailed Specification Attached)	8	No



**TECHNICAL SPECIFICATION FOR PROCUREMENT OF SINGLE-CHIP
60–64 GHz INTELLIGENT MMWAVE RADAR SENSOR WITH
INTEGRATED PROCESSING CAPABILITY**

1. General Requirements

Sl. No.	Specification Parameter	Minimum Requirement
1	Technology	Single-chip FMCW mmWave radar sensor
2	Operating Frequency	60 GHz to 64 GHz
3	Radar Architecture	FMCW Radar
4	Processing Capability	Integrated MCU and DSP on the same chip
5	Application Support	Presence detection, people counting, tracking, gesture recognition, robotics and industrial sensing
6	Device Condition	Brand new and unused

2. RF and Antenna Specifications

Sl. No.	Specification Parameter	Minimum Requirement
1	RF Bandwidth	Minimum 4 GHz
2	Transmit Channels (TX)	Minimum 3 TX



3	Receive Channels (RX)	Minimum 4 RX
4	MIMO Capability	Supported
5	Virtual Antenna Array	Minimum 12 Virtual Channels
6	Azimuth FOV	+/- 60
7	Azimuth Angular Resolution	15
8	Gain	7 dBi

3. Processing and Memory Specifications

Sl. No.	Specification Parameter	Minimum Requirement
1	Main Processor	ARM Cortex-R4F or better
2	DSP Processor	Integrated DSP or equivalent signal processor
3	Hardware Accelerator	FFT/CFAR/Signal Processing Accelerator
4	Internal RAM	Minimum 1.5 MB
5	Embedded Object Detection	Supported
6	Autonomous Operation	Stand-alone operation without external processor
7	Real-Time Tracking	Supported

4. Interfaces and Connectivity



Sl. No.	Specification Parameter	Minimum Requirement
1	UART Interface	Required
2	SPI Interface	Required
3	I ² C Interface	Required
4	CAN-FD Interface	Preferred
5	LVDS/Data Streaming Interface	Supported
6	GPIO	Available
7	External Flash Support	Supported

5. Software and Development Environment

Sl. No.	Specification Parameter	Minimum Requirement
1	Software Development Kit (SDK)	Included
2	Device Drivers	Included
3	Signal Processing Libraries	Included
4	Example Applications	Included
5	Documentation	Complete datasheets, user guides and API documentation
6	Operating System Support	Windows and Linux
7	MATLAB/Python Interface	Preferred

8	Support for RAW Data Capture	Required
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6. Electrical and Environmental Specifications

Sl. No.	Specification Parameter	Minimum Requirement
1	Supply Voltage	As per manufacturer specification
2	Operating Temperature	-40°C to +85°C or better
3	ESD Protection	Supported
4	Reliability	Industrial-grade device

7. Evaluation and Development Hardware

Sl. No.	Specification Parameter	Minimum Requirement
41	Evaluation Module	Must be supplied
42	USB Connectivity	Available
43	Onboard Power Management	Available
44	Antenna Configuration	Integrated or external antenna solution
45	Programming/Debug Interface	Included

8. Deliverables

Sl. No.	Deliverable	Requirement
1	Radar Sensor Module	1 No.

2	Evaluation Board	1 No.
3	Power Adapter/Cables	Included
4	Software Package	Included
5	Technical Documentation	Included
6	Warranty	Minimum 1 Year

9. Preferred Make

- Texas Instruments IWR6843
- Texas Instruments IWR6843ISK
- Equivalent or superior specification shall also be acceptable.

