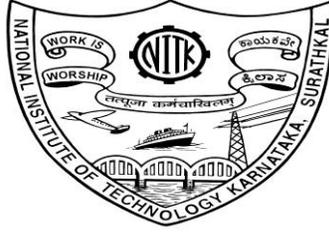


NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

DEPARTMENT OF MECHANICAL ENGINEERING
 POST SRINIVASNAGAR, MANGALORE – 575 025 (D K)
 Phone: (0824) 2474000. Fax: (0824) 2474033
 E- mail: info@nitk.ac.in Website: <http://www.nitk.ac.in>



NOTICE INVITING QUOTATION

Notification. No: GEM/GARPTS/29092023/2317V75KHDYW

Dated: 29/09/2023

Name of Goods	DATA ACQUISITION CARD (DAC)
Estimated Amount:	29,500/-
Time for Supply of item after release of Purchase order	28 Days
Document Download / Sale Start Date	17/10/2023, 3.00 PM
Clarification Start Date	17/10/2023, 3.00 PM
Clarification End Date	27/10/2023, 3.00 PM
Bid Submission Start Date	17/10/2023, 3.00 PM
Last Date for submission of bids	08/11/2023 before 3.00 PM
Bid Opening Date	09/11/2023 after 3.00 PM
Address for Submission of bids	Dr. Ranjeet Kumar Sahu, Asst. Prof., Dept. of Mech. Engg. NITK, Surathkal-575025. Ph.No. +91-9182679250



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Notification No: GEM/GARPTS/29092023/2317V75KHDYW

Date: 29/09/2023

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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Bid Opening Date	09/11/2023 after 3.00 PM

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]

Item(s) Name to be Procured : DATA ACQUISITION CARD (DAC)

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

Quantity : 01

Any other details / requirement :

Warranty Period required : 01 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]

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

Detailed Technical Specifications

Topic	Requirements			
General	Data Acquisition Card (DAC)			
Scope	To supply Data Acquisition Card (DAC)			
Compulsory Requirements	Analog Input <ul style="list-style-type: none"> • Number of channels:- 2 differential or 1 stereo audio input • ADC resolution:- 16 bits • Maximum sampling rate:- 200 kS/s • Timing accuracy:- 100 ppm of sample rate • Timing resolution:-10 ns • Range • Analog input :- ± 10 V, ± 2 V, DC-coupled • Audio input:-. ± 2 V, AC-coupled • Passband (-3 dB) • Analog input :- DC to 400 kHz • Audio input:-1.5 Hz to 400 kHz • Connector type • Analog input and output:- Screw terminals • Audio input:-3.5 mm stereo jack • Input type (audio input) :-Line-in or microphone • Microphone excitation (audio input) :-5.25 V through 10 kΩ Absolute accuracy 			
	Nominal Range		Typical at 23 °C (mV)	Maximum (18 to 28 °C) (mV)
	Positive Scale	Negative Scale		
	10	-10	~23	~40
2	2	~5	~9	
Analog Output <ul style="list-style-type: none"> • Number of channels: - 2 ground-referenced or 1 stereo audio output • DAC resolution: - 16 bits • Maximum update rate: - 200 kS/s • Range Analog output: - ± 10 V, ± 2 V, DC-coupled • Audio output: - ± 2 V, AC-coupled • Maximum output current • (analog output)1:- 2 mA • Output impedance Analog output: - 1 Ω • Audio output: - 120 Ω • Minimum load impedance • (audio output):-8 Ω • AC coupling high frequency: - 50 Hz 				

Additional Requirement	CMRR 70dB Overvoltage protection Slew rate :- 4 V/ μ s Timing accuracy:- 100 ppm of sample rate Timing resolution:- 10 ns Overdrive protection:- \pm 16 V to AGND Maximum power-on voltage1 :- \pm 110 mV Output FIFO size :- 8,191 samples, shared among channels used
Others	Highly reliable and aesthetically good looking system with complete requirement as stated above is preferred
Timeline Requirement	The system should be delivered to NITK within 4 weeks of Purchase Order release.

Dr. Ranjeet Kumar Sahu
Assistant Professor
Department of Mechanical Engineering
NITK, Surathkal

Prof. Ravikiran Kadoli
HOD
Department of Mechanical Engineering
NITK, Surathkal