

Indian Institute of Technology
Department of Mechanical Engineering
Hauz Khas, New Delhi-110 016

NOTICE INVITING QUOTATIONS

Dated: **07 Dec. 2016**

Subject: Purchase of Data Acquisition / Converter Modules.

Invitation for Tender Offers

Indian Institute of Technology Delhi invites sealed tender offers in two bid format (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for “**Data Acquisition Modules and 1-port Isolated USB to RS-232/422/485 Converter**” with one year on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document.

TECHNICAL SPECIFICATION:

Sr. No.	Description	Qty requi red
1.	Data Acquisition Modules specifications:- <ul style="list-style-type: none">- 16 bit, 8 differential and independent configuration analog input channels.- Should support 10 to 100 samples/sec (for 8 channels, selected by utility)- Analog inputs range: Voltage: ± 15 mV, ± 50 mV, ± 100 mV, ± 500 mV, ± 1V, ± 2.5 V. Current: ± 20 mA, and 4-20 mA; or better.- Direct sensor input from J, K, T, E, R, S and B type thermocouples to be supported.- Accuracy: ± 0.1 % or better for Voltage; and ± 0.2 % or better for current.- CMR @ 50/60 Hz should be 92dB and NMR @ 50/60 Hz shall be 60 dB or better.- Protections: Over-voltage, High common mode, and surge protection required.- Operating temperature range of - 40 to 85 °C and operating humidity 5-95 % RH or better.- Modules should be both Din-rail and Panel mountable.- Software/utility to be provided including GUI software for Windows 10/Ubuntu/ Apple OS systems (32/64 bit) on multiple workstations simultaneously.	6 Nos.

2.	1-port Isolated USB to RS-232/422/485 Converter with following specifications:- <ul style="list-style-type: none"> - Should have USB-type A Network connector with type A to type B cable. - Minimum USB 2.0 compliance required. - Should have 1 x plug-in terminal for serial 3- wire RS-232/422/485 communication. - Operating temperature range of - 40 to 85 °C and operating humidity 5-95 % RH or better. - Modules should be both Din-rail and Panel mountable. - Software/utility to be provided including GUI software for Windows 10/Ubuntu/Apple OS systems on multiple workstations simultaneously. - 	3 Nos.
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Terms & Conditions

The sealed quotations are to be submitted in two separate envelopes super scribed as:

Envelope-A : Technical Quote (Specifications), and

Envelope-B : Financial Quote.

For details see ANNEXURE I.

Both these envelopes should be enclosed in an outer envelope, which should also be sealed and addressed to, Prof. S. R. Kale, clearly mentioning on top right corner of the envelope " **Data Acquisition Modules and 1-port Isolated USB to RS-232/422/485 Converter**".

The sealed quotation (in one envelope containing the two envelopes for the "technical bid" & - financial bid" should be clearly marked sealed envelopes) should be addressed to *Prof. S. R. Kale, Block –III Room No. 179, Department of Mechanical Engineering, IIT Delhi, Hauz Khas, New Delhi-110016*. Those who want to submit it by hand should submit in Department of Mechanical Engineering office (Block II, Room 261). The last date for receipt for quotations is **22 December 2016 (1700 hours)**.

ANNEXURE-I

Envelope A: Technical Quote: The following details are to be enclosed (e)

1. A compliance chart based on the specifications as per the NIQ.
2. List and addresses of organizations where the material has been supplied in last 3 years in India.
3. Catalogue of the equipment should be provided.
4. If quote is for imported material supplied through Indian Agent, Sole Agency- ship certificate on the letterhead of the principal company, if quotation is from an Indian Agent.

Envelope B: Financial Quote: The following details are to be enclosed/ ensured.

1. The validity of the quotation must be at least 3 months from last data of receipt of quotations.

2. Prices should be quoted CIF IIT Delhi.
3. The prices quoted must include charges of delivery at IIT Delhi.
4. For each module, the unit price and total price should be clearly indicated.
5. The compliance certificate should be provided.
6. Purchase procedure/rules of IIT Delhi will be strictly followed. IIT Delhi reserves the right to cancel any or all quotations without assigning any reason thereof. IIT Delhi does not encourage any advance payment and payment will be made after delivery and successful installation.
7. The supplier should be able to supply the quoted material within 15 (fifteen) days of date of purchase order.
8. If some specifications are not being met, deviations may be clearly stated. In the unlikely event that none of the vendors are able to meet all the specifications, the committee reserves the right to waive or relax any of the requirements at the technical evaluation stage.
9. The Quotation received after due date will not be considered.

Prof. S. R. Kale,
Block III, Room No. 179
Department of Mechanical Engineering
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