



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
Cryogenic Engineering Centre

INVITATION FOR TENDER

Ref: IITKGP/CRYO/TPL/IG/ DAQ/18-19/25

Date: 01-02-2019

Sealed tenders are invited in Two-bid System in two separate sealed envelopes (one for Technical specifications and the other for Commercial offers) from eligible Indian manufacturers/ suppliers or foreign manufacturers through their Direct Indian Agents for the supply of the following equipment,

- **Data Acquisition System** as per the technical specification given overleaf

If any Indian Agent quotes on behalf of Foreign Principal, in that case, as per GFR Rule, Vendor Registration Number from DGSD under Ministry of Commerce, Government of India, and copy of business agreement are to be submitted along with quotation (in the Envelope containing the Technical Bid) failing which the quotation would not be considered.

Both the envelopes must be sealed and should clearly be marked on top of envelope about type of envelope (i.e., technical/price bid), tender reference no. and name of agency submitting the bid. The technical bid should not have any price indication.

- These two envelopes, mentioned above, must be in a larger envelope with tender reference number and name of the agency clearly written over it.
- Bids, those are not following two-bid system, will be cancelled.

Please send offers, along with descriptive catalogue/brochure. The validity of the bid should be *at least 120 days* from the last date of submission. Please ensure that your quotation reaches this office not later **25th February 2019 at 16:00 hrs.** at the following address:

Head of the Centre
Cryogenic Engineering Centre
Indian Institute of Technology Kharagpur
Kharagpur 721302, West Bengal, India
Kind Attention: Prof. Indranil Ghosh

Last Date of Submission of Quotation: 25th February (Monday), 2019 at 16:00 hrs.

Date & Time of Opening the Tender: 25th February (Monday), 2019 at 16:30 hrs

Copy to:

1. Institute webpage
2. CPP portal
3. Chairman Purchase Committee
4. Jt. Registrar (S&P)

Bm
1/2/18

Indranil Ghosh
01.02.19

DETAILED TECHNICAL SPECIFICATIONS

Data Acquisition System


Item no.	Name of item	Specifications	Quantity
1	Data Acquisition System	<p>The data acquisition system must meet the following requirements.</p> <ol style="list-style-type: none">1) Analog Voltage Input<ul style="list-style-type: none">• Analog Input Channels: 16• Resolution: 24bit• Sampling Rate: 100 Hz/Channel or more• Input Voltage: +/-10 V2) Analog Current Input<ul style="list-style-type: none">• Analog Input Channels: 8• Resolution: 24bit• Sampling Rate: 100 Hz/Channel or more• To support sensors with 4-20mA current output3) Analog Voltage Output<ul style="list-style-type: none">• Channels: 4• Voltage: +/-10V• Resolution: 24bit• Sampling Rate: 25kHz/ch or more4) DAQ Controller with Ethernet-TCP/IP interface, USB port for extendable data memory, PAC Kernel to process specific application functions (mathematical, combination, PID, sequencing) with graphical programming interface5) DAQ chassis/controller to house the aforementioned cards / module and provision for further expansion in operation of DAQ. DAQ chassis must be customizable for future needs. Controller/chassis should be provided with proper mounting accessories on table top.6) Data acquisition, instrument control, test automation, analysis and signal processing software, full version to be included.7) Associated accessories and cables which are required needs to be included.8) Connectivity of DAQ to Computer with USB/Ethernet, should support connectivity to Windows 7/8/8.1/109) Overvoltage protection to be provided for all analogy input and output channels.10) Power Requirement & Cables: As per Indian Standards11) Quote should be inclusive of supply of instruments at site with tax.	1 Pc


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Techno-commercial conditions

- A. Interested original equipment manufacturers or dealers or agents may submit their quotations in **two bid systems** (technical and commercial)
- B. In the technical bid, vendors have to give a **technical compliance certificate** along with the technical literature.
- C. Compliance statement is to be submitted as per our technical specifications. Claim for compliance should be traceable to your brochure. Please mention page number etc. of your brochure for easy traceability.
- D. **Warranty – minimum 2 years** from the date of delivery/ ~~installation and commissioning at site.~~
- E. Scope of supply should include free installation, commissioning and training at site.
- F. Please provide the list of such supplied systems in India and abroad both in academics and industry
- G. **Validity** of the quotation should be 120 days from the date of submission.
- H. Commercial bid is to be provided in clearly marked separate sealed envelope.
- I. In any Indian Agent quotes on behalf of the Foreign Principal, in that case, as GFR Rule, vendor registration number from the DGSD under Ministry of Commerce, Government of India, and copy of business agreement is to be submitted along with quotation.
- J. **Last Date of Submission of Quotation: 25th February (Monday), 2019 at 16:00 hrs.**
- K. **Date & Time of Opening the Tender: 25th February (Monday), 2019 at 16:30 hrs.**
- L. Earnest Money Deposit (EMD): An amount of 12,000.00 (Rupees twelve thousand only) (Refundable) in the form of Demand Draft drawn in favour of “**Indian Institute of Technology Kharagpur**”, payable at **Kharagpur** is to be submitted. E.M.D. should be enclosed separately in an envelope and stapled with the Technical Bid document super-scribed with the tender no. The validity of the EMD should be 6 (six) months from the date of issue. Any bid without EMD will summarily be rejected. No interest is payable on EMD. EMD will be refunded to the unsuccessful bidder after finalization of the tender process. No interest is payable on Security Deposit. Security Deposit shall be forfeited if the selected vendor fails to execute the contract after receiving the same.
- [NOTE: IIT Kharagpur will give exemption for submission of tender fee and EMD who are registered with MSME or Central Purchase Organization or startups as recognized by DIPP as per revised rule 170 of GFR-2017 only. However proper and valid document in this regard must be submitted by the bidders in support of their claim.]
- M. The envelope should have the following number on the top and submitted to the office of
Head of the Centre
Cryogenic Engineering Centre, IIT Kharagpur
West Bengal – 721302, INDIA
(Attn: Prof. Indranil Ghosh)
- N. Regarding this purchase, **the decision of the Director would be final and binding.**
IITKGP/CRYO/TPL/IG/DAQ/18-19/25 dated 01-02-2019
- O. Payment terms for foreign firms: **100% payment through irrevocable L/C.**


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Techno-commercial conditions

P. Payment terms for Indian Firms

- 100% payment against delivery through electronic transfer.
- Ensure mentioning:
 - i) Bank details of the beneficiary and PAN number
 - ii) Full name and address of the beneficiary on whom order has to be placed.

R. Man
01.02.19.