



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
Cryogenic Engineering Centre

INVITATION FOR TENDER

Ref: IITKGP/CRYO/TPL/IG/PULSE-TUBE/18-19/01

Date: 06-11-2018

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,

- **PULSE TUBE CRYOCOOLER** 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 **27th November 2018 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: 27th November (Tuesday), 2018 at 16:00 hrs.

Validity: 120 days from the last date of submission

Date & Time of Opening the Tender: 29th November (Thursday), 2018 at 11:00 hrs

Technical Specifications for Pulse Tube

1.	Pulse Tube Cooling Capacity	05-10 W @ 20 K
2.	No load Temperature	10 K
3.	Number of Stages	Two Stages
3.	Cool down	Less than 30 minutes to reach minimum temperature (under no load condition)
4.	Compressor	Water cooled, oil lubricated helium compressor
5.	Electrical Connection	220 V and 50 Hz single phase power
6.	Chilling Unit	Supply of chilled water @ 12-15°C at the desired flow rate
7.	Temperature Sensors	Gold-Iron thermocouple and diode sensors

Techno-commercial conditions

- a) Interested original equipment manufacturers or dealers or agents may submit their quotations in **two bid systems** (technical and commercial)
- b) **Warranty – minimum 2 years** from the date of installation and commissioning **at the site**.
- c) Scope of supply should include **free installation, commissioning and training at site**.
- d) Please provide the list of such supplied systems in India and abroad both in academics and industry.
- e) **Validity** of the quotation should be 120 days from the date of submission.
- f) In the technical bid, vendors have to give a technical compliance certificate along with the technical literature.
- g) 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.
- 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: 27th November (Tuesday), 2018 at 16:00 hrs.**
- k) **Date & Time of Opening the Tender: 29th November (Thursday), 2018 at 11:00 hrs.**
- l) The envelope should have the following number on the top and submitted to the office of
IITKGP/CRYO/TPL/IG/PULSE-TUBE/18-19/01
Head of the Centre
Cryogenic Engineering Centre, IIT Kharagpur
West Bengal – 721302, INDIA
(Attn: Prof. Indranil Ghosh)
- m) Regarding this purchase, **the decision of the Director would be final and binding.**
- n) Payment terms for foreign firms: **100% payment through irrevocable L/C.**
- o) 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.