

## Department of Materials Science and Engineering

Date: 17/10/2016

Enquiry Number: IITK/MSE/VV/COTI/Extension

We are interested to purchase CO<sub>2</sub> incubator for cell culture laboratory. The proposed machine should comply with or be better than each of the specifications mentioned in the Technical Specifications Section. Please carefully note and comply with the following instructions. If any of the instructions are not followed, the submitted bid will be disqualified.

1. Please submit your bids in two separate envelopes named “Technical Bid” and “Price bid”. The Technical bid should contain the detailed technical specifications of the proposed machine, photographs of the machine and other accessories offered. The Technical Bid should not contain any prices. The Price Bid should contain the technical specifications as well as prices in details.
2. The “Technical Bid” should contain one “Technical Compliance” statement, each page of which should have signature and seal of the prospective supplier. In this statement, each of the specifications mentioned in the Technical Specification should be re-written and the value (or range wherever applicable) offered in the proposed machine for the given specification should be specifically mentioned. This should be followed by stating whether the offered machine complies or does not comply with the concerned specification. If value offered by proposed machine for any of the asked specification is not specified or comply/does-not-comply for each specification not specified or any ambiguity is left in the specifications, the bid will be disqualified.
3. The prospective supplier should be either original manufacturer or 100% subsidiary or authorized agent of the original manufacturer of the offered machine. The Technical Bid should contain an original certificate obtained from the principal company to this effect.
4. The prospective supplier should have supplied the offered machine to at least 3 government or government-affiliated institutes, which should be either an IIT, IISc, NIT or a national laboratory like NML, NCL etc. The list of such personals having this machine and their contacts should be included in the Technical Bid.
5. Each of the envelopes should be appropriately marked as either “Technical Bid” or “Price Bid”. Enclose the two sealed envelopes in another bigger sealed envelope and send it to the address mentioned below.
6. Include proprietary item certificate if applicable
7. Institute is exempted for partial custom duty (CD applicable to IIT Kanpur is 5.15%). Prices quoted should be FOB (indicating port of shipment) and CIF (New Delhi) values separately if requires import.
8. Institute is exempted from payment of Excise Duty under notification No. 10/97.
9. The bids should reach the undersigned before 5 pm on **28<sup>th</sup> November 2016**.

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## **Technical specifications**

1. The incubator chamber volume should be 165 L-200 Liters or more with interior components constructed of electro polished stainless steel, with rounded corners, to minimize potential for unwanted contamination and simplify cleaning.
2. 180 Degree high temperature sterilization cycle with proven efficiency in contamination control against bacteria, molds, resistant bacterial spores and mycoplasma by microbiological testing and temperature mapping ensuring full chamber sterilization.
3. The unit should incorporate a direct air jacketed heating design featuring high quality thermal jacket insulation and fan assisted circulation, allowing recovery under 10 minutes of all parameters (temperature, CO<sub>2</sub>, and relative humidity) following a 30 second door opening.
4. The incubator should incorporate an integrated humidification design, with water reservoir that is in direct contact with a heated surface to maximize humidification efficiency.
5. Water Level Sensor in Water pan
6. TC or IR CO<sub>2</sub> Sensor with humidity compensation feature. Should not be taken out or capped during time of decontamination.
7. Should be equipped with Data logging or Eventloggin feature to track the functioning of incubator.
8. Provision for HEPA filter inside the chamber & at openings of both gases
9. Provision for O<sub>2</sub> Control 1-21% with inner split doors 3-8 Partition.
10. USB Port for Data export , A 4-20mA signal output, CE marked.
11. CO<sub>2</sub> Cylinder & Regulator Standard Make.