

NOTICE INVITING TENDER

Sealed tenders in TWO BID SYSTEM are invited on behalf of Director, Guru Nanak Dev Engineering College, Ludhiana for the purchase of following items so as to reach latest by **22.02.2016** on or before 2 pm. Technical and Financial bids should be sent in separate sealed envelopes and enclosing them in a common sealed cover. The tenders will be opened on the same day at 3.00 pm in the presence of tenderers or their authorized representative, if any. Your tender should be in sealed cover which should be enclosed in an outer envelope. Unsealed tenders shall not be considered. The inner sealed cover should be clearly superscribed as:-

“Tender for Differential Scanning Calorimeter due on 22.02.2016”

“Tender for Twin Screw Extruder due on 22.02.2016”

No tender documents will be considered until and unless tender is signed with full signatures and carries the stamp of the tenderers.

A person signing the tender documents or any other document forming part of the contract on behalf of the firm shall be deemed to warranty that he has the authority to bind the firm for all purposes/conditions/clauses of the contract/tender and if in any state it is found that the person so signing had no authority to do so, the Institute may, without prejudice to other civil and criminal remedies against the contract, hold the signatory and the firm liable for all costs and damages.

Instrument Name: **Differential Scanning Calorimeter** Qty – 1 No. **(EMD Rs. 50,000/-)**
Twin Screw Extruder Qty- 1 No. **(EMD Rs. 60,000/-)**

The EMD will be accepted only from final bidder in the form of Bank Guarantee valid for a period of two years from the date of installation.

EMD will be refunded to the un-successful bidders.

For detailed specifications, general conditions, visit website www.gndec.ac.in

Director

SPECIFICATIONS: TWIN SCREW EXTRUDER

The Twin Screw Extruder is needed for research and compounding of nano-fillers, nano-material and powders to be mixed with thermoplastics like HDPE, LDPE etc. and must have the following Minimum specifications:

Design Specifications:

A software controlled conical co-rotating twin screw extruder which requires small sample size to facilitate economical compounding solution for expensive nano material without much wastage. The extruder must be with a removable top barrel for easy cleaning. The twin screw extruder must be horizontal barrel type with a backflow channel to re-circulate the material and to control and define residence time.

Technical Specifications:

Minimum sample size (Volume)	: 7 – 10 ml
Torque per screw	: 5 Nm or more
Speed range	: 2 to 350 RPM or more
Temperature	: 300 Deg. C or more
Cooling	: With forced air
Pressure capability of barrel	: 200 bars or more
Material of construction of barrel and screws	: Steel (M340) or equivalent

Bidder's Eligibility Criteria:

1. The bidder/manufacturer must supply operation manual in English and must provide the training to the technical staff at institute.
2. The bidder/manufacturer must have enough experience of supplying and installing micro scale Extruders (not the production type)
3. The bidder must have supplied the same or identical model to the institutes of repute like IITs, IISc etc. and must conduct a demo at these places.

DIFFERENTIAL SCANNING CALORIMETER

- Principle of operation : **Heat Flux**
- Furnace: Low mass Furnace for rapid heating/cooling and resistant to corrosion
- Temperature range : RT to 450 degrees or higher
- Temp. accuracy : $\pm 0.2^{\circ}\text{C}$ or better
- Temp. precision : $\pm 0.02^{\circ}\text{C}$ or better
- Heating rate : 0.02 to $300^{\circ}\text{C}/\text{min}$ or better
- Sensor Type : Chromel alloy/Diffusion Bonded/Ceramic-AuAuPd/ μ -sensor
- The sensor should be chemical & corrosion resistant having low signal time constant of Less than 2 sec.
- Resolution of the system : $0.04 \mu\text{W}$ or better
- DSC Amplifier range : $\pm 350\text{mW}$ or better
- System must be able to use inert, reactive & static purge gases
- Crucibles & press : $40\mu\text{l}$ aluminum & $70 \mu\text{l}$ Reusable Platinum crucible with a **sealing press**
- The system should have inbuilt gas controller
- The sensor should not an integral part of the furnace and the sensor should easily replaceable.
- System should not need recalibration when changing crucible, gases and heating rates.
- **Data acquisition/processing system:** Windows based (Microsoft Windows Operating system) Software should enable automatic / manual on-line data acquisition and display of running measurements, Calibration. The multi-tasking software should facilitate storage of both raw DSC data as well as deconvoluted data in the form of standard DSC curves. The s/w should have the facility of choosing different baseline e.g line, tangential, horizontal, spline, Integral tangential, polygon line etc for correct evaluation/integration of peaks.
- One Gas Cylinder, Regulator & Flow Meter should be quoted
- PC,UPS & Printer should be quoted as optional
- Cooling option up to -25°C should be quoted as optional
- Company should have application support lab in India
- System must be provided with all accessories and should be ready to use
- System must be quoted with one year additional optional AMC .

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General conditions:

1. The vendor must provide authorization letter from the manufacturer.
2. The system should be stand alone with respect to all functionalities of machine and its accessories, peripherals (including aluminum pans with covers and crimps) and add-on like desktop PC, printer and software.
3. All other accessories and peripherals required for installation, functioning and regular maintenance of the system must be quoted with the instrument.
4. Appropriate capacity of branded uninterrupted power supply (UPS) with a backup time of at least 30min or more should form part of the core system itself and its cost (if any) should be clearly mentioned in the financial bid.
5. The financial bid must contain itemized prices for each item.
6. A list of 05 installations in India (particularly Govt. of India R& D organizations, please provide the name list) and a copy of at least three latest purchase orders of the same/similar model in National laboratories or R&D organizations setup by GOI.
7. The vender must have servicing capabilities in Punjab preferably in Ludhiana.
8. The system should be suited to Indian system of electrical inputs (220-230V/ 50Hz).

Instructions

- All accessories required for successful installation, functioning and regular maintenance of the systems must be quoted.
- Warranty: Minimum one year. Additional AMC and CMC for subsequent three years to be quoted for the purpose to freeze the AMC Charges beyond the warranty period.
- The system should be suited to Indian system of electrical inputs (220V/ 50Hz).
- Inquiry will be sent by UPC/Courier/Speed Post and GNDEC will not be liable for any kind of Postal delay.
- The Tender Should be addressed to the Director, GNDEC, Gill Park, Gill Road, Ludhiana-141006 invariably giving on the envelop Reference No. with date and Due date with time.
- The Quantity mentioned in this inquiry and shall be deemed to be only approximate and will not in any manner be binding on the Institute.
- The tender should be enclosed in a sealed envelope.
- Firms will quote separately for each article

Prices:

A) For goods manufactured with India:

- (i) The price of goods quoted Ex-Works including taxes already paid.
- (ii) VAT and other taxes like excise duty etc. which will be payable on the goods if the contract is awarded.
 - (a) The charges for inland transportation, insurance and other local service required for delivering the goods at the desired destination as specified in the price schedule form.
 - (b) The installation, commissioning and training charges including any incidental services, if any.

B) For goods manufactured abroad:

- (i) The price of the goods, quoted on CIP New Delhi.
- (ii) The agency commission charges, if any.
- (iii) The installation, commissioning and training charges including any incidental services, if any.

C) The Institute is having exemption for the payment of Excise Duty and Customs Duty through affiliating University i.e IKG Punjab Technical University, Kapurthala. **No other charges than those mentioned clearly in the tender will be paid.**

D) **Sales Tax:** We are NOT authorized to issue any Sales Tax Form 'C' & 'D'.

VALIDITY OF OFFER :

The prices must be valid at least for a period of **90 days for indigenous supplies & 180 days for imports** from the date of opening of the tender.

- The delivery period should be specifically stated. EX-Stock and earlier delivery may be preferred.
- Samples wherever asked for will not be paid for these should be delivered in the office of the undersigned securely labelled and packed. In case of terms who submit the samples through Railways/Road Transport the freight should be prepaid and RR should be in favour of Director, GNDEC, Ludhiana.

REASONABILITY OF PRICES :

Please quote best minimum prices applicable for a premier Engineering & Research Institution, **leaving no scope for any further negotiations on prices.**

The quoting party should give a certificate to the effect that the quoted prices are the minimum and they have not quoted the same item on lesser rates than those being offered to GNDEC to any other customer nor they will do so till the validity of offer or execution of the purchase order, which ever is later.

- The rates quoted should be in Nos and otherwise your tenders is liable to be ignored.

SPECIFICATIONS:

A. Specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our specifications. At the same time it must be kept in mind that merely copying our specifications in the tender shall not make the parties eligible for consideration

of the tender. **A tender has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer and the specifications mentioned in the tender must be reflected/supported by the printed technical leaflet/literature. Therefore the model quoted invariably be highlighted in the leaflet/literature enclosed with the tender. Non-compliance of the above shall be treated as incomplete/ambiguous and the offer can be ignored without giving an opportunity for clarification/negotiation etc. to the quoting party.**

- B. The compliance statement of specification be provided and supplied with the tender
- C. The items which can/are to be procured indigenously may be listed separately.

PAYMENT CONDITION:

A. **For Indigenous Supplies:-**

Payment on bill basis after supply, satisfactory installation, commissioning and performance of the equipment at Ludhiana and after Certificate of Inspection Committee

B. **For Imports:-**

The payment shall be made through irrevocable Letter of Credit (LC). LC will be opened on 100% value of the equipment/item on CIP value and 10% will be released only after satisfactory installation and commissioning of the equipment. This will not include commission to the Indian Agent. Payment to the Indian Agent will strictly be made in Indian Rupees after satisfactory commissioning of equipment.

COMMENCEMENT OF WARRANTY PERIOD

The warranty period of an item shall commence from the date of receipt of item in good working condition and satisfactory installation/commissioning.

No Advance Payment: No Advance payment will be made to any supplier.

INSTALLATION: The equipment should be installed/commissioned and demonstrated, by the supplier at the lab immediately but in any case within one month after receipt of the item in the lab and the same will be put under operation to the satisfaction of our technical expert/Scientist who will test the performance of the equipment. No separate charges for installation etc. will be paid to the party beyond the quoted prices.

- **AFTER SALES SERVICES:** It should be clearly mentioned in the tender whether the after sales services during and after the completion of warranty shall be provided directly by the supplier or their authorized agent/representative. Terms of the after sales services, if any, may be mentioned in the offer. However, in both the cases the original supplier shall be responsible for poor performance/services. The company should have service engineers within 300 km of the range of the institute.

INSPECTION :

- a. The inspection of the system will be done by our technical expert in the presence of firm's representative.
- b. In case of receipt of the material in short supply or damaged condition the supplier will have to arrange the supplies/ replacement of goods free of cost pending the settlement of the insurance case wherever applicable on FOR at the lab. or GNDEC basis till satisfactory installation of the system.

- c. The supplier **should arrange for physical Inspection of the items directly or through their authorized representative within seven days of arrival of the consignment failing which they will be responsible for the losses.** After the shipment is effected, the supplier/its representative/Indian agents must remain in touch with the Lab/Inst. to ascertain the date of arrival of consignment

PENALTY CLAUSE FOR LATE DELIVERY & LATE INSTALLATION:

- a. **Subject to operation of Force Majeure, time for delivery and acceptance is the essence of this contract. The supplier shall arrange to ship the ordered materials within the delivery period mentioned in the order unless extended with/without penalty.**
- b. In case of delay in supply on part of the supplier, a penalty @ 1% per week of Order/FOB value will be charged for delayed period subject to a maximum of 10% of order/FOB value.
- c. If the delay in the shipment of the ordered materials attributable to the supplier exceeds agreed time period from the date of original agreed upon date of shipment and extended with/without penalty, GNDEC shall have the right to cancel the contract/purchase order and recover the liquidated damages from other dues of the party or by legal means. It will also affect the other/future business dealings with such suppliers.

TRAINING:

Wherever needed, Our Technical persons should be trained by the supplier at the project site free of cost. In case the person is to be trained at supplier's site abroad or in India it should be mentioned in the tender clearly. The supplier should bear all the expenses for such training including 'to & fro' fares and lodging & boarding charges

LATE/ DELAYED /UNSOLICITED TENDER:

Late or delayed/Unsolicited tenders/offers shall not be considered at all. These will be returned to the firms as it is. Post tender revisions/corrections shall also not be considered.

ACCEPTANCE OR REJECTION OF OFFER:

The Director,GNDEC reserves the right to accept or reject any tender in part or full without assigning any reason thereof. The successful bidder should submit Order acceptance within 15 days from the date of issue to your successful bidder.

PAGE NUMBERING & SIGNATURES:

Your offer should be a page numbered and signed by an authorized signatory giving his/her name and designation below the signatures.

INTERIM ENQUIRIES: No interim inquiries will be attended.

- **In case the item is quoted in foreign currency, Please specify on your quote:**
 - Gross weight of the consignment
 - Chargeable weight of the consignment
 - Nature of the consignment (Voluminous/ Non Voluminous)
 - Dimensions of the consignment after packing

FORCE MAJEURE:

The Supplier shall not be liable for forfeiture of its performance bank guarantee liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. **If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.**

PRICE REASONABILITY CERTIFICATE

This is to certify that we have offered the maximum possible discount to you in our Tender No.

_____ dated _____ for (Currency)_____.

We would like to certify that the quoted price are the minimum and we have not quoted the same item on lesser rates than those being offered to GNDEC to any other customer nor they will do so till the validity of offer or execution of purchase order, whichever is later.

Seal and Signature of the tenderer

TERMS AND CONDITIONS OF THE SERVICE CONTRACT

- i) During the service contract period, the firm shall provide at least TWO preventive maintenance visits and attend to all emergent and break-down calls per year.
- ii) The service contract charges beyond warranty period must be quoted separately for each year strictly as under and quoting of rates in ambiguous terms or in percentage terms etc., shall render the tender liable to rejection :-
- | | | |
|-------------------------------|---|------------------------|
| Rate for 1 st year | = | Rs..... (Rs. in words) |
| Rate for 2 nd year | = | Rs..... (Rs. in words) |
| Rate for 3 rd year | = | Rs..... (Rs. in words) |
| Rate for 4 th year | = | Rs..... (Rs. in words) |
| Rate for 5 th year | = | Rs..... (Rs. in words) |
| | = | Rs..... (Rs. in words) |
- iii) The service contract charges should be quoted only for services and travel cost etc. and should not include the cost of any replacement parts/components which shall be arranged by the Institute at its own cost.
- iv) In each block of 365 days during the entire service contract period the firm will be responsible to maintain the equipment in good working condition for a period of 328 days (i.e. 90% uptime). The time taken by the Institute in providing to the firm the spare parts shall not count towards the downtime. All the complaints will be attended by the firm within 5 days of the dispatch of the complaint to their office. In case there is delay of more than 5 days in attending to a complaint then the number of days in excess of the permissible response time shall be counted in the downtime. The above said response time of 5 days for attending to a complaint will not be counted in the downtime. In case total downtime exceeds the permissible limit as defined above, the service contract shall be extended by the period in excess of the permissible downtime subject to limit of 30 days in a block of 365 days. However, for the period of the downtime in excess of 30 days in a block of 365 days. However, for the period of the downtime in excess of 30 days, a fine equivalent of double the daily service contract charges shall be recovered from the firm.
- v) The replaced parts shall remain the property of the Institute.
- vi) The firm shall try to repair the equipment at Institute itself. However, the equipment may be taken to their site, on their own expenses if in case it is not possible to repair the same at GNDEC, the firm shall take the entire responsibility for the safe custody and transportation of the equipment taken out for repairs till this is handed over to purchaser after repair. Any loss of equipment or its accessories on account of theft, fire or any such reasons shall be the sole risk and responsibility of the firm who will compensate the Institute for such losses at FOB value of the damaged/lost equipment/part including accessories.
- vii) During the service contract period the parts/components that may be needing replacement shall made available by the Institute at their own expenses and all import formalities, payment of custom duty etc., shall be complied with/borne by the Institute.
- viii) All service contract charges will be invoiced on yearly basis on completion of annual maintenance contract. The payment of the invoice will be made after verification of service invoice satisfactorily by user within 30 days of the date of submission of the invoice.
- ix) ~~Agreement~~ **Agreement** revision will be accepted by the Institute during the entire tenure of the service contract