

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

DEPARTMENT OF CHEMICAL ENGINEERING

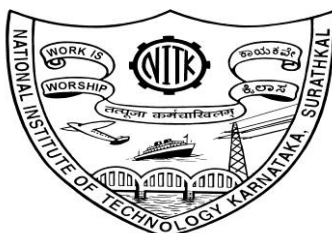
POST SRINIVASNAGAR, MANGALORE – 575 025 (D K)  
A DEEMED UNIVERSITY

Phone: (0824) 2474000.

E- mail: [info@nitk.ac.in](mailto:info@nitk.ac.in)

Fax: (0824) 2474033

Website: <http://www.nitk.ac.in>



## NOTICE INVITING QUOTATION

Notification. No: NITK/CH/Bomb Calorimeter/DDF/2021-22/38

dated: 19.04.2021

<b>Name of Goods</b>	Bomb Calorimeter
<b>Estimated Amount:</b> (Excluding GST)	Rs. 1,50,000/-
<b>Time for Supply of item after release of Purchase order</b>	30 <b>(Days)</b>
<b>Document Download / Sale Start Date</b>	19.04.2021 @ 5.30 PM
<b>Clarification Start Date</b>	19.04.2021 @ 5.30 PM
<b>Clarification End Date</b>	26.04.2021 @ 5.30 PM
<b>Bid Submission Start Date</b>	19.04.2021 @ 5.30 PM
<b>Last Date for submission of bids</b>	04.05.2021 <b>before 3.00 PM</b>
<b>Bid Opening Date</b>	04.05.2021 @ 4.00 PM
<b>Address for Submission of bids</b> [ Type Address of the Department and Contact Person Details with Phone Number]	Dr. Hari Mahalingam Associate Professor, Chemical Engineering, NITK. Phone No – 0824-2473643.



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**NOTICE INVITING QUOTATION (NIQ)**

The National Institute of Technology Karnataka, Surathkal (in short – NITK, Surathkal) is an Institute Of National Importance Under Ministry of Education Govt of India, imparting Technical Education and engaged in Research Activities. It is proposed to procure the items for the departmental academic/research activities.

Sealed Quotations as per the Price Schedule given in this NIQ are invited for the following items subject to the terms and conditions, from the reputed manufacturers or its authorised dealers so as to reach on or before scheduled date and time. The quotations in the firm's Business letter head should be address to the "Director, NITK, Surathkal". The envelope shall be superscribed with the Quotation Notification Number and the Name of the Goods for which quotation is submitted.

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**Sd/-  
HOD**

Note: Institute shall not be responsible for any postal delay about non-receipt /non-delivery of the bids or due to wrong addressee.

**SECTION-1**  
**Terms and Conditions**

1. The rates should be quoted for preferably FOR destination from supply within India.
2. The bidder shall indicate the excise duty exemption for the goods if applicable.
3. The rate quoted should be on unit basis. Taxes and other charges should be quoted separately, considering exemptions if any. The rate should be quoted in INR only
4. Rate quoted should be inclusive of Testing, commissioning and Installation of equipment and Training.
5. Payment: No advance payment will be made. Payment will be made only after the supply of the item in good and satisfactory condition and receipt of performance security by supplier.
6. Guarantee/Warranty period should be specified for the complete period should be specified in section 3 of this tender document.
7. Period requirement for the supply and installation of item should be specified in section 3 of this tender document.
8. In case of dispute, the matter will be subject to Mangalore Jurisdiction only.

**SECTION-2**  
**SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED DETAILS**

[ To be filled up by the Department / Centre of NITK, Surathkal]

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Item(s) Name to be Procured : Bomb Calorimeter

Brief Specifications of the Item(s) : Attached  
(Attach Additional Sheet if necessary)

Quantity : 1

Any other details / requirement : NA

Warranty Period required : 1 Year

Delivery Schedule expected  
after placement of Purchase order  
(in Weeks) : 4 weeks

**SECTION 3**  
**PRICE SCHEDULE**

[ To be used by the bidder for submission of the quotation]

- 
1. Item Name :
  2. Specifications  
(Conforming to Schedule of requirements  
Enclose additional sheets if necessary) :
  3. Currency and Unit Price :
  4. Quantity :
  5. Item Cost (Sl No. 3 \* Sl. No. 4 ) :
  6. Taxes and Other Charges :  
(i) Specify the type of taxes and duties  
in percentages and also in figures.  
(ii) Specify Other Charges in figures.
  7. **Warranty Period** :  
**(Conforming to the Schedule of requirements)**
  8. Delivery Schedule :  
(Conforming to the Schedule of requirements)
  9. Name and address of the Firm for  
placing purchase order :
  10. Name and address of Indian authorized  
agent ( in case of imports only) :

**Signature of the Bidder:** \_\_\_\_\_

**Name and Designation:** \_\_\_\_\_

**Business Address** : \_\_\_\_\_

\_\_\_\_\_

**Place:**  
**Date:**

**Seal of the Bidder's Firm**

**SECTION 4**  
**CONTRACT FORM**

[ To be provided by the bidder in the business letter head]

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1. (Name of the Supplier's Firm) hereby abide by the delivery schedule mentioned in this document for supply of the items if the purchase order is awarded.
2. The item will be supplied conforming to the specifications stated in this document without any defect and deviations.
3. Warranty will be given for the period mentioned in this document and service will be rendered to the satisfaction of NITK, Surathkal during this period.

**Signature of the Bidder:** \_\_\_\_\_

**Name** : \_\_\_\_\_

**Business Address** : \_\_\_\_\_

\_\_\_\_\_

**Place :**

**Date :**

**Seal of the Bidder's Firm**

## **Specifications for Bomb Calorimeter (Automatic, Microprocessor-based)**

### **Product Specifications**

Description	Microprocessor-based automatic measurement of calorific values up to 10000 kcal GCV/ Water equivalent
Standards	Must conform to specifications of BS 1016 / IS 1359 Manufacturer facility certificate: ISO 9001
In-built printer	Yes, thermal
Screen display	16 x 4 line LCD display or better
Keypad	16 keys or better, soft touch
Report printout	Full test report with date and time
Data Logger / Memory	Internal, 100 logs or better with date and time
Alarms	Yes, on firing and after completion of test
Power switch	Soft power on
Reset Button	Yes
Fuse wire open indicator	Yes
Computer interface	RS232C or USB
PC Software	Optional, Windows-based
Clock	In-built, real time with battery backup
Power supply	230 V $\pm$ 10% / 50 Hz
Calorimeter outer container	Cylindrical, Aluminium with rolled rim and sliding cover
Calorimeter Vessel	Copper, 75 x 50 mm or better, weight marked
Stirrer	Yes, copper, 75 x 3.5 mm or better
Thermometer	Digital Beckmann type or equivalent with least count of 0.001°C, calibration certificate to be supplied
Thermometer well	Nickel plated brass
Bomb	SS316 or better, hydraulic pressure test certificate from to be supplied
Insulating material	Felt or equivalent
Installation at site	Required
Standard accessories	Should be mentioned in quotation (Brief list given below)
Warranty	1 year comprehensive onsite

### **Standard Accessories required**

1. Oxygen Cylinder Gas Regulator – Double stage
2. Spanner / Tool kit
3. Valve key
4. Connecting rubber pipes (one small and one big)
5. Pressure gauge with stand
6. Tablet/Pellet making machine (SS304) with die & mould
7. Rubber 'O' rings for bomb and stirrer (big & small) – 2 sets
8. 36 SWG Nichrome wire (10 meters)
9. Cotton thread reel
10. Ignition threads (15 meters)

Cont.....

11. Pressure release Nut
12. High pressure Safety valve with stand
13. Schrader valve – 4 pieces
14. Rubber tube for connecting Bomb Vessel For Filling Gas (flexible, push lock)
15. Benzoic acid powder
16. Gelatin capsules – 50 nos
17. Crucible (SS316)
18. Operating instructions manual