

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL**

DEPARTMENT OF MECHANICAL ENGINEERING

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

Phone: (0824) 2474000.

Fax: (0824) 2474033

E- mail: [info@nitk.ac.in](mailto:info@nitk.ac.in)Website: <http://www.nitk.ac.in>**NOTICE INVITING QUOTATION**Quotation Notification . No. NITK/ME/AE/18/2020.....Dated 22/01/2020

Name of Goods : LIQUID CRYSTAL THERMOCHROMIC (KIT)

Time for Supply of item : 30 Days.  
after release of Purchase order

Last Date for submission of Quotation : 20/2/2020 before 3.00 PM

Address for Submission of Quotation : Dr. N. Gnanasekaran  
Asst.Profeesor, Dept. of Mechanical Eng.  
NITK, Surathkal- 575025  
Ph. No.; +91 9940871337



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Quotation Notification.No : NITK/ME/418/2020

Date: 22/01/2020

**NOTICE INVITING QUOTATION (NIQ)**

The National Institute of Technology Karnataka, Surathkal (in short – NITK, Surathkal) is an autonomous body under Ministry of HRD Govt of India , a Deemed University , imparting Technical Education and engaged in Research Activities. It is proposed to procure the items for the departmental academic/research activities.

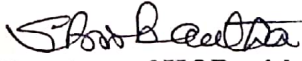
Sealed Quotations as per the Price Schedule given in this NIQ are invited for the following items subject to the terms and conditions, from the reputed manufacturers or its authorised dealers so as to reach on or before scheduled date and time. The quotations in the firm's Business letter head should 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.

**1. Name of Goods : Thermochromic Liquid Crystal Kit (Three temperature range)**  
**(Specifications are annexed to this NIQ)**

**2. Time for completion of Supply after release of Purchase Order : 30 days**

**3.. Last date at time for submission of quotation : 20/02/2020 before 03:00 PM**

**4. Quotations to be submitted at the following address : Dr. N. Gnanasekaran**  
Asst. Professor, Dept.of Mechanical Engg.  
NITK, Surathkal-575025  
Ph. No.; +91 994871337

  
**[Signature of HOD with Seal]**

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

Dr. SHRIKANTH N. S.  
Professor & Head  
Dept. of Mechanical Engineering  
National Institute of Technology Karnataka, Surathkal  
Srinivashnagar- 575 025, Mangalore (INDIA)

## Terms and Conditions

1. The rates should be quoted for preferably FOR destination from supply within India.
2. **In case, Goods are to be Imported, the Indian agent should furnish authorisation certificate by the principles abroad for submission of the bid in response to this Notice Inviting Tender.** In case of import both CIF and/ or FOB rate should be quoted . All components of expenditure to arrive at Bangalore need to be explicitly specified.
- 3 The bidder shall indicate the excise duty exemption for the goods if applicable.
- 3 The institute is eligible for customs duty exemption, excise duty exemption, issuance of form D.
4. The rate quoted should be on unit basis. Taxes and other charges should be quoted separately, considering exemptions if any.
5. Rate quoted should be inclusive of Testing, commissioning and Installation of equipment and Training.
6. 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.  
**In case of Imports, the payment will be made through LC / Sight Draft / After Installation, and performance security need to be submitted at the time of LC commitment / issue of sight draft.**
7. Guarantee and Warrantee period should be specified for the complete period conforming to the section 3 of this tender document.
8. Period requirement for the supply and installation of item should be specified conforming to the section 3 of this tender document.
9. In case of dispute, the matter will be subject to Mangalore Jurisdiction only.

## **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	: THERMOCHROMIC LIQUID CRYSTAL KIT ( Three temperature range)
Brief Specifications of the Item(s) (Attach Additional Sheet if necessary)	: Specifiactions sheet attached
Quantity	: 3
Any other details / requirement	: Liquid crystal thermograhic sheet is also desired in addition to the mentioned product or as a replacement to the mentioned product but operating at desired temperature ranges)
Warranty Period required	: -NA-
Delivery Schedule expected after placement of Purchase order (in Weeks)	: Four weeks.

## 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**

## 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 :**

**Seal of the Bidder's Firm**

**Date :**

## **SPECIFICATIONS**

- Three 50 ml bottles each of Thermochromic Liquid Crystals (temperature ranges 1) 80°C - 90°C , 2) 90°C -100°C, and 3)100°C – 120°C.
- An airbrush for coating the component or board's surface with black backing ink and liquid crystals
- Air hose with couplings, valve for propellant cans and a 1/4" pipe adapter for use with to an air compressor
- Three 50 ml bottles of Thermochromic Liquid Crystals (temperature ranges specified when ordering)
- Threee 50 ml bottle of sprayable black backing ink for pre-treating the surface to be studied
- Two glass jars, which attach to the airbrush, for dispensing ink and liquid crystals  
Two portable and disposable, 255 g (11 oz.) cans of CFC-free air propellant.

### **And/Or**

- **Liquid Crystal Thermographic sheets operating in above mentioned three temperature ranges.**