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## NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

DEPARTMENT OF CENTRE FOR SYSTEM DESIGN

POST SRINIVASNAGAR, MANGALORE – 575 025 (D K)

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### NOTICE INVITING QUOTATION

Notification. No:NITK/CSD/2023/SERB/KVG/SL-04

Dated: 23-05-2023

<b>Name of Goods</b>	Automated Water Quality Sampling & Analyzer
<b>Estimated Amount:</b>	Rs.2,49,000/-
<b>Time for Supply of item after release of Purchase order</b>	<b>7 (Days)</b>
<b>Document Download / Sale Start Date</b>	24-05-2023
<b>Clarification Start Date</b>	24-05-2023
<b>Clarification End Date</b>	07-06-2023
<b>Bid Submission Start Date</b>	24-05-2023
<b>Last Date for submission of bids</b>	07-06-2023 <b>before 3:00 PM</b>
<b>Bid Opening Date</b>	08-06-2023 <b>@ 3:00 PM</b>
<b>Address for Submission of bids</b>	Dr.Pruthviraj U Asst. Professor, Centre for System Design NITK Surathkal-575025 (M): 9972797225, <a href="mailto:pruthviu@nitk.edu.in">pruthviu@nitk.edu.in</a>



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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 : Automated Water Quality Sampling & Analyzer

Attached in Annexure 1  
Brief Specifications of the Item(s) :  
(Attach Additional Sheet if necessary)

Quantity : Set

Any other details / requirement : Nil

Warranty Period required : 1 year

Delivery Schedule expected  
after placement of Purchase order  
(in Weeks) : 1 Week

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

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

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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 (SI No. 3 \* SI. 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**

Automated Water Quality Sampling & Analyzer: Specifications

The Industrial Monitoring Kit is a multi-parameter process monitor, capable of reading from eight probes at once. Real-time values that can be visible through the 4x40 character LCD display ( minimum ), with a simple and intuitive menu screen for calibration and temperature compensation. Real-time values must also be transmitted via 4-20mA signals or Serial data protocol. The modular design must allow for the operator to quickly add in any combination of probes. This system must be capable to be used for basic water quality monitoring or integrated into a fully automated process control system.

The Industrial Monitoring Kit must be configurable for Serial Data output or analog 4-20mA output.

Data output : Serial – RS232 data communication, 4-20mA – Analog output

Data recording: SD card for recording data in CSV format, SD card included.

Probes, circuits, calibration & isolation : Fully loaded – 1x -pH, 1x -ORP, 1xDO, 1x -EC and 3x RTD, their respective industrial probes, calibration solutions,

4x isolators, and 8x Male BNC Connectors with Terminal Screws And auto flushing system

Monitor up to Eight (8) different sensors at one time.

Supports: pH, ORP, DO, EC, RTD, Flow, CO<sub>2</sub>, O<sub>2</sub>, Pressure & Humidity

SD card data recording with time stamp, On-board calibration and temperature compensation, Real-time displayed values.

RS232 Serial Data output, 4-20mA output for PLC process control for each channel. 24V power supply included, Monitor a minimum of sensors at one time. pH, ORP, DO, EC, RTD, Flow, CO<sub>2</sub>, O<sub>2</sub>, Pressure & Humidity, SD card data recording with time stamp, On-board calibration and temperature compensation, Real-time displayed values., RS232 Serial Data output / USB, 4-20mA output for PLC process control for each channel., 24V power must be supplied. 50 locations across Karnataka and needs to be sampled and reported shared by NITK

SI	NcLat	Long
1	13.090952	74.782384
2	13.122492	74.917673
3	13.114361	74.943385
4	13.086565	74.91747
5	13.084076	74.941142
6	13.104129	74.796949
7	13.11219	74.793943
8	13.106312	74.798449
9	13.143694	74.872917
10	13.148444	75.014944
11	13.161111	74.831667
12	13.178333	74.982778
13	13.175833	74.9675
14	13.173	74.960111
15	13.157139	74.924833
16	13.126972	74.9105

17	13.123644	74.863278
18	13.102778	74.820833
19	13.152386	75.007333
20	13.164831	75.013853
21	13.160278	75.007833
22	13.170278	74.847222
23	13.153333	74.821944
24	13.137611	74.848528
25	13.13225	74.842806
26	13.1305	74.84
27	13.162889	74.974778
28	13.136111	74.808333
29	13.154417	74.947778
30	13.155417	74.913833
31	13.142306	74.908444
32	13.106111	74.798333
33	13.115556	74.789722

34	13.125833	74.823611
35	13.116111	74.803333
36	13.153611	74.818889
37	13.118333	74.796667
38	13.143611	74.813056
39	13.119444	74.783333
40	13.098526	74.874521
41	13.09892	74.872909
42	13.08475	74.836891
43	13.084522	74.825965
44	13.084563	74.821441
45	13.08471	74.821407
46	13.077234	74.811867
47	13.100251	74.802944
48	13.09856	74.800901
49	13.100775	74.79713
50	13.100536	74.796245

warranty: 01

For any technical Clarifications contact : Dr.Pruthviraj U

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