



# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

DEPARTMENT OF OFFICE OF THE RESIDENT ENGINEER  
POST SRINIVASNAGAR, MANGALURU – 575025 (DK)

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No: 549/Fire & Safety/2021-22/DM

Date: 28/09/2021

## NOTICE INVITING QUOTATIONS

The National Institute of Technology Karnataka, Surathkal (in short - NITK, Surathkal or Institute) is an autonomous Institute of the Govt. of India [under the Ministry of Education] imparting technical and science education. The Institute intends to **“Supply, Installation, commissioning, programming and testing of fire alarm panel in Central Library Department at NITK Campus”** The materials as listed in the sheet enclosed. In this connection, sealed quotations are invited by the undersigned subject to the terms and conditions enumerated here under from the manufacturers/ authorized dealers/ agencies so as to reach this office on or before 08-10-2021 by 3:30 PM. The quotations shall be opened on the same day if possible.

### Terms and conditions:

1. The intending bidder shall quote his rates in the ‘**Quotation Format**’ enclosed here with either in his letter head or using the same format. He shall sign each page with seal of the firm. Envelop super scripted as Quotation **“Supply, Installation, commissioning, programming and testing of fire alarm panel in Central Library Department at NITK Campus”** Due on 08-10-2021” and addressed to as “The Resident Engineer, NITK, Surathkal, Post Srinivasnagar, Mangaluru – 575025” be sent so as to reach this office on or before the due date mentioned.
2. The GST registration number and the PAN number of the bidder shall be mentioned in the quotation. Quotation without this information will not be accepted.
3. Quotation may be dropped in the Tender Box kept in the office or may be sent by post/ courier. It is the responsibility of the bidder to make sure that the quotation is delivered in time. The quotations received after the due date will not be entertained.
4. The rate quoted shall be valid for 90 days for its acceptance.
5. Item should be supplied as per department specification only. In case of rejection of material, one more chance shall be given for its replacement with the material conforming to the specification specified. Failure to supply the material as per the specification will result in debarring the bidder for participation in bids for a minimum of one year.
6. No advance payment will be made. The payment shall be made only after successful completion of work. No interest will be paid for delayed payments if any.
7. The rate quoted should be firm. No claim for enhancement of rate is admissible after opening of the Quotations.
8. Terms and conditions stipulated in this Notice inviting conditions are binding on the bidder.

Sd/  
Resident Engineer  
NITK, Surathkal

**Name and Address of the Bidder:**

**Contact No:**

**GST registration number: -**

**PAN number: -**

**Date: -**

**No: -**

**QUOTATION**

To

The Resident Engineer,  
Office of the Resident Engineer,  
N.I.T.K., Surathkal.

<b>Sl. No</b>	<b>Description of the items</b>	<b>Quantity</b>	<b>Rate without tax in Rs / each</b>	<b>GST</b>	<b>Amount with tax in Rs.</b>
1	Fire Alarm Panel Model: IO 1000 R2 (Addressable panel) Make: Edward / Equivalent  <b>Detailed Specification Attached</b>	01 no			
	<b>Grand Total Amount</b>				

**Seal and signature of the Bidder**

**Technical Specifications: -**

SI.No	Particulars	Technical Specification Requirement
1	Name of Item	Fire alarm panel
2	Scope of work	Supply, Installation, commissioning, programming and testing of fire alarm panel.
3	Device loops	1 loop, expandable to 4, Class A or B (Styles 4, 6, 7), each loop supporting up to 250 device addresses (125 detectors and 125 modules max.). Addresses 1 to 125 are for detectors and addresses 126 to 250 are for modules Maximum T-taps/loop: 124
4	Notification appliance circuits	4 Class B (Style Y) or 2 Class A (Style Z) 6.0 A FWR total at 120/230 VAC 60 Hz 5.0 A FWR total at 230 VAC 50 Hz 2.5 A FWR each max. per circuit
5	Primary power	120 VAC, 60 Hz, 2.0 A max. 230 VAC, 50-60 Hz, 0.97 A max.
6	Base panel current standby	172 mA
7	Base panel current alarm	267 mA
8	Input zones	32 max.
9	Remote annunciator	8 drops max., RS-485 Class A or B Data line length: 4,000 ft. (1,219 m)
10	Operating voltage	24 VDC panel
11	Auxiliary power output circuit	Aux power 1: 500 mA, 24 VDC (1 A possible if you reduce total available NAC power by 500 mA) Aux power 2: 500 mA, 24 VDC Output: 28.3 to 21.9 VDC, special application
12	Loop circuit	Maximum loop resistance: 66 $\Omega$ Maximum loop capacitance: 0.5 $\mu$ F Communication line voltage: Maximum 20.6 V peak-to-peak Operating current (fully loaded loop) Stand by: 55 mA/45 mA Alarm: 125 mA/115 mA (not including two-wire smoke modules) Circuit current: 0.5 A max. Style 4, 6, and 7 wiring Max. resistance between isolators: Limited only by overall wire run lengths 64 isolators maximum per loop (total both isolator bases and modules)
13	Batteries	Type: Sealed lead acid Voltage: 24 VDC Charging current: 2.47 A max. Amp hour capacity: 26 Ah Standby operation: 24 hour or 60 hours Placement: Up to two 10 Ah batteries will fit in the iO64 control panel cabinet and two 18 Ah batteries will fit in the iO1000 control panel cabinet
14	SA-DACT dialer	Phone line type: One or two loop-start lines on a public, switched network Phone line connector: RJ-31/38X (C31/38X) Communication formats: Contact ID (SIA DC-05) Operating current Standby/Alarm: 41 mA Max.: 100 mA FCC registration number: GESAL01BSADACT Industry Canada Registration number: 3944A-SADACT Ringer equivalence number: 0.1B
15	Ground fault impedance	0 to 5 k $\Omega$
16	Alarm contact	Form C N.O. 24 VDC at 1 A (resistive load)

17	Trouble contact	Form C 24 VDC at 1 A (resistive load)
18	Supervisory contact	Form A N.O. 24 VDC at 1 A (resistive load)
19	Environmental	Temperature: 0 to 49°C (32 to 120°F) Relative humidity: 0 to 93% noncondensing
20	Terminal rating	All terminals rated for 12 to 18 AWG (0.75 to 2.5 mm <sup>2</sup> )
21	Quantity required	1 set
22	Unit of measurement for price	1 set / each
23	Warranty	2 years

Sd/  
Resident Engineer  
NITK, Surathkal