

No: 1957 (T5)/2021/NK/TVPM

Office of the Nirmithi Kendra,
B Block, 4th Floor, Civil Station,
Kudappanakunnu, Thiruvananthapuram 43.
Pmnirmithi01@gmail.com, 0471-2732929
25/08/2021

INVITATION OF TENDER (T5)

District Nirmithi Kendra invites Competitive tender from authorized Firms/Experienced Individual in the form attached herewith for **Building Management system for TSCCC Building Thiruvananthapuram,**

S.No.	PARTICULARS	QTY	UNIT
1	Supply, Installation and Testing of BMS PC with min 16 GB RAM with DVD drive, H.V.G.A. Card, 2 GB Graphics card, min 1 TB Mirror HDD OS software ,1 GB Ethernet Network Interface card, Scroll Mouse & original Software, The original 64 bit OS Windows Server (2010 or above) software. Make: Dell/HP or Equivalent<	1	nos
2	Supply, Installation, Testing & commissioning of Integrated Building Management System Software for Monitoring & controlling DDCs, all the utilities, third party integration equipments as mentioned in the I-O list that shall meet all the requirements, with required software & hardware interfaces. The software shall come with required soft license points. Make : Honeywell/Siemens or Equivalent	1	nos
3	Supply, Installation, Testing and Commissioning of DDC Controllers intelligent, UL Listed, BTL tested, 32 Bit Interoperable DDC as per the specifications. Each controllers shall be equipped with Universal Inputs and Analogue outputs. The controller shall be housed in a vandal proof, lockable and secure MS cabinets to be supplied along with controllers. The controller shall have 15% Extra IO capacity). Each of the following systems shall have separate multiple controllers, as required. The DDC selection shall be based on I-O Summary as given in the tender. Extension Module with in the DDC can be used OEM own communications protocols Make : Honeywell/Siemens or Equivalent 	1	nos

4	Supply, Installation, Testing & Commissioning of Gateway for Integration of the third party systems supporting multi protocols like BACnet, Modbus, Lonworks, RS232, RS485 etc for the following ENERGY METER- (Modbus-RS485) UPS - (Modbus-RS485) HVAC system (Modbus-RS485) Rodent System - (Modbus-RS485) FIRE ALARM PANEL - (Modbus-TCP/IP) GENERATOR - (Modbus-RS485) TRANSFORMER - (Modbus-RS485) ACCESS CONTROL SYSTEM- (Utility software) 8 channel Digital Input Module 4 channel Digital Output Module. Make : Honeywell/Siemens or Equivalent	1	nos
5	Supply, Installation, Testing Outside door Mounting type Temperature and RH sensor with output of 4 to 20 mA or 0-10V DC Supply and Input of 24V DC/AC (0 - 50 Degree C) Make : Honeywell/Siemens or Equivalent	1	nos
6	Supply, Installation, Testing of Wall Mounting type Temperature sensor (0-50 Deg C) Make : Honeywell/Siemens or Equivalent	3	nos
7	Supply, Installation, Testing of CO2 SENSOR with output of 4 to 20 mA or 0-10V DC Supply and Input of 24V DC/AC (0 - 2000PPM) Make : Honeywell/Siemens or Equivalent	1	nos
8	Supply, installation and commissioning of Water leak control panel. The panel shall have 2 zone circuit to monitor presence of water across the sensor cable which connected to each zones, and should activate a sounder circuit while detecting any water presence. Panel shall have indication LED for normal and alarm status, and also shall have test and reset buttons. Panel shall have zonewise drycontact output to integrate with BMS. Panel shall have builtin battery charger and 2nos 12V7AH Battery for backup operation Make : Agni/Sontay/J3 or Equivalent	1	nos
9	Supply, Installation PVC twisted pair with stainless steel sensing element type water leak sensor cable of 10 Mtr length Make : Agni/Sontay/J3 or Equivalent	2	nos
10	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required. 20 mm	210	m

11	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required.25 mm	300	m
12	Supply and drawing the following sizes of multi-core PVC insulated & FRLS PVC sheathed 650/1100 V grade copper conductor round flexible cables conforming to IS 694 part I 1960 in the existing surface / recess conduit as required including giving necessary connections of the following sizes.2 core 1.00 sq mm	250	m
13	Supply, Laying, Termination of ISI Certified 4 Core 1.0 sq.mm ATSC,(Aluminium Mylar with Atc Drainwire of 0.5 Sq. mm) FRLS,PVC insulated, Unarmored, Tinned Copper, twisted, shielded, PE insulatedlugs and other necessary accessories as per approved make.	200	m
14	Supply and installation of Rodent repellent controller : The controller shall have the circuit to emit very high frequency sound waves which are not legible to human ear but should irritates rodents. Controller shall have the ability to vary wave speed, wave density and frequency band time. The panel shall have LCD display and control parameter shall be protected by password. Also controller shall have modbus output on RS485 to integrate with BMS . Controller also shall drive 20 transducer in dedicated line or 24 nos in single loop. Make : R scat/ Maser/Varna or equivalent 	2	nos
15	Supply and installation of Transducer. Transducers shall be circular ceiling mounted low profile units that produce high decibel sound waves at very high frequency not less than 20 Khz. These satellites shall have output of 80-110 db at above 20KHz frequency. Make : R scat/ Maser/Varna or Equivalent	30	nos
16	Supply and laying 2 core 14/40 SWG Transducer cable for rodent repellent system, of approved make	350	m
Total			

2) Bid Price

- Tender shall be for the full quantity as described above. Corrections if any shall be made by crossing out re-writing with initial and date.
- The rate should be all inclusive of taxes, levies, transports etc. Usual deduction of taxes will be made from the gross amount of bill.

c) The rate quoted by the bidder shall be fixed for the duration of the tender and shall not be subject to adjustment on any account.

d) The price should be quoted in Indian rupees only.

3) Each bidder shall submit only one tender.

4) Validity of tender

Tender shall remain valid for a period not less than 45 days after the dead line date specified for submission

5) Evaluation of tender

The tenderer will evaluate and compare the tender determined to be substantially responsive ie which

a) Are properly signed

b) Confirm to the terms and conditions and specification.

6) Award of Tender

a) The work will award to the tenderer whose tender has been determined to be substantially responsive and who has offered the lowest evaluated quotation price

b) The tenderer whose bid is accepted will be notified of the award of the contract by the purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

7) The amount will be released after verification of the material in physical ,quality and receipt of invoice in this office according to the availability of funds. Individual or authorized dealers/agents are only eligible.

8) Tenderer are requested to provide your offer latest by 12 hours on **04.09.2021** and the quotation will be open at **04.09.2021**.

9) Cost of Tender form : Nil

10) Earnest Money Deposit : Nil

We look forward to receiving your tender and thank for your interest in this work.


PROJECT MANAGER
NIRMITHI KENDRA
THIRUVANANTHAPURAM

Project Manager

Copy to : Website & notice board

Tender Format (15)

S.No.	PARTICULARS	QTY	UN IT	Rate	Amout
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	monitor presence of water across the sensor cable which connected to each zones, and should activate a sounder circuit while detecting any water presence. Panel shall have indication LED for normal and alarm status, and also shall have test and reset buttons. Panel shall have zonewise drycontact output to integrate with BMS. Panel shall have builtin battery charger and 2nos 12V7AH Battery for backup operation Make : Agni/Sontay/J3 or Equivalent				
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16	Supply and laying 2 core 14/40 SWG Transducer cable for rodent repellent system, of approved make	350	m		
	Total				

Gross Total Cost: - Rs.....

(In words) We agree to supply the above goods in accordance with the technical Specification for a total price of Rs.....(amount in figure).....(amount in words) with in the period specified in the invitation for quotation.

Signature of Tenderer