No: 1951/2021/NK/TVPM

Office of the Nirmithi Kendra,
B Block, 4th Floor, Civil Station,
Kudappanakunnu, Thiruvananthapuram43.
Pmnirmithi01@gmail.com,0471-2732929
06.11.2021

# INVITATION OF TENDER(7)

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.	- PERCHIARS	QTY	UNIT
1	PARTICULARS  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. Supply, Installation and Testing of BMS PC with min 16 GB RAM with min 16	To Ame Use 1000 - 2000 1000 - 2000 1000 - 1000 1000 -	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. Henceweel (Sigmons or Equivalent	alde Samani nacidal rad less alle bas and 1 and and als and less and	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	and the pro-	nos
4	communications protocols or Equivalent 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 br>ENERGY METER- (Modbus-RS485) (Modbus-RS485) following c (Modbus-RS485) c (Modbus-RS485)	The second secon	nos



			NEW APPEND
	RS485) TCP/IP) br>GENERATOR-(Modbus-RS485) 485) CONTROL SYSTEM- (Utility software) Digital Input Module Module share Models of Equivalent Module share Module share and the state of Equivalent Module share Models and the state of Equivalent Module share Module sha	1	
5	Digital Input Module Module. 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) Equivalent		nos
6	Supply, Installation, Testing of Wall Mounting type Temperature sensor ( 0-50 Deg C ) Hoperwood (Signature Family Sent)		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) br>Make: Honeywell/Siemens		nos
8	or Equivalent  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 operation operation bryMake: Agni/Sontay/J3 or Equivalent	3	nos
9	Supply, Installation PVC twisted pair with stainless steel sensing element type water leak sensor cable of 10 Mtr length br>Make: Agni/Sontay/J3 or Equivalent	3	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	10	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	20	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	300	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. shr>Make: R scat/ Maser/Varna or equivalent variations of Rodent repellent controller: The controller shall have models.	3	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. shall have output of 80-110 db at above 20KHz frequency. Supply and installation of Transducer. Transducers shall be circular to the satellites of the satel	30	nos
16	Supply and laying 2 core 14/40 SWG Transducer cable for rodent repellent system, of approved make	400	m
	Total		

#### 2) Bid Price

- a) 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.
- b) 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 25.11.2021 and the tender will be opened at 25.11.2021.
- 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

Copy to: Website & notice board



### **Tender Format**

S.No.	PARTICULARS	QTY	UN IT	Rate	Amout
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. Software. Software. Dell/HP or Equivalent<	ord ord ord ord ord ord ord ord ord ord	nos	ANTARA SANTARA SANTARA SANTARA PER	Atalbarily and a second
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2	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	1	nos	inangeror congeror description	Lorenting type  Lorenting type  Dog  Complete translation  Supply, installer
27	points. Make : Honeywell/Siemens or Equivalent	gles i	V Ibra	DE to t	to sugine state
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4	Supply, Installation, Testing & Commissioning of Gateway for Integration of the third party systems supporting multi protocols like BACnet,	1	nos	mslag of of 10 Me or Dougle	A Poste Sections:

	Modbus, Lonworks, RS232, RS485 etc for the					
	following RS485) RS485) RS485) HVAC (Modbus-system)					
	(Modbus-RS485) < brackless ALARM PANEL-	artis	TEN A		Manufactured Manufactured	
	TCP/IP) br>GENERATOR-(Modbus 485) tr>ANSFORMER-(Modbus-	O'VO	die		Tel the Jav	
	RS485) br>ACCESS CONTROL SYSTEM- (Utility software) br>8 channel Digital Input Module hodule hodule hodule Honeywell/Siemens or Equivalent			iominal de la company de la co	The tangent of the second	
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) Honeywell/Siemens or	1	nos		anterestolines three-security	
	Equivalent Supply, Installation, Testing of Wall	1112		Callet An		
6	Mounting type Temperature sensor ( 0-50 Deg C ) Honeywell/Siemens or Equivalent	2	nos		ledben den	
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) Honeywell/Siemens or Equivalent	1	nos	andi dodali	distriction of the second	
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	drycontact output to integrate with BMS. Panel shall have builtin battery charger and 2nos 12V7AH Battery for backup operation br>Make : Agni/Sontay/J3 or Equivalent	an sale	71 m	AND THE REAL PROPERTY OF THE PARTY OF THE PA	national (1) and the last of t	
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	Total			71 7/0	Sanda Hillandia

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figure	e)			(a	mount	in word	ds) w	ith in	the per	10d speci	ncu
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Signature of Tenderer