



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)

Chitranjali Hills, Thiruvallam, Thiruvananthapuram-27
Phone: 0471-2380910, 912 Fax: 0471- 2380681

No. C-DIT/01/ESD-WSD/KMA/22-23/T382

Date: 27.01.2023

TENDER NOTICE

FOR SETTING UP OF WiFi CAMPUS AT KAKKANAD

Sealed tenders are invited for setting up of WiFi campus in Kerala Media Academy at Kakkanad . The envelopes containing the tender should bear the superscription “*for setting up of WiFi campus at Kakkanad*” and should be addressed to The Registrar, Centre for Development of Imaging Technology (C-DIT), Chitranjali Hills, Thiruvallam, Thiruvananthapuram 695027. Intending tenderers may submit the tenders on their own papers by post/hand. Last date for receipt of tenders is **06.02.2023, 3.00 PM**. Late tenders will not be accepted. The tenders will be opened at **3.30 PM on 06.02.2023** in C-DIT office in the presence of the tenderers or their authorized representatives who may be present at that time. Details of the requirements and the conditions governing the supply can be downloaded from our website www.cdit.org

Thiruvananthapuram

27.01.2023

Sd/-

REGISTRAR



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Scope of Work

setting up of WiFi campus in Kerala Media Academy office buildings at Kakkanad

GENERAL TERMS AND CONDITIONS

1. This Tender is invited for the "*setting up of WiFi office buildings at Kakkanad*" for one of the projects taken up by C-DIT

Specifications

WiFi6 Access Point - 5 Nos		
Technical Specification		
Sl No	Item Name/Description	Quantity
1	Access Point radio should be minimum 2x2 MIMO with 2 on 5ghz and 2x2 on 2.4 Ghz radio. The AP should have Dual Radio 802.11ax access point with OFDMA and Multi-User MIMO (MU-MIMO),	5 Nos
2	AP should have one 10/100/1000 Mbps speed LAN port and Auto-sensing link speed	
3	<i>Access Point should be 802.11ax (WiFi6) ready from day one and support WPA3.</i>	
4	Access point should support OFDMA and MU-MIMO for enhanced multi-user efficiency	
5	Access Point can have integrated internal antenna	
6	Access point should support 802.3af POE standard.	
7	Access point should have option of external power adaptor as well.	
8	AP mounting kit should be provided for wall/ceiling mount.	
9	AP should support standalone mode/ Inbuilt Virtual controller mode for specific requirements.	

10	AP should support Dual mode, future if we are adding more AP's and it must work dual mode (same AP can be managed via cloud or controller)	
11	Certifications EN 60601-1-1 and EN 60601-1-2 (for deployment in medical environments) Wi-Fi Alliance certified (WFA) 802.11ax with (Wi-Fi 6), WPA2, WPA3	
12	OEM should be leaders in Gartner magic quadarant report for wired and wireless in last three consecutive years	
13	Approved Makes : Cisco/HPE/Juniper/Extream/Arista/	
14	Shall be offered with Three years hardware warranty directly from the OEM	
24 Port PoE Access Switch - 1 No		
Sl. No.	Technical Specification	Qty
1	Architecture	1 No
	Switch shall have 24 Nos. of 10/100/1000 Base-T PoE Ports and Min 2 x 10G BaseT and 2 x 10G SFP+ Ports.	
	Shall have minimum 370W PoE budget	
	Shall have switching capacity of 128 Gbps	
	Shall have up to 95 million pps switching throughput	
	Shall be 19" Rack Mountable Chassis	
2	Resiliency	
	Switch should support Port Trunking and 802.3ad LACP Link Aggregation for automatic load balancing and high availability.	
	IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol and IEEE 802.1s Multiple Spanning Tree Protocol	
3	Resiliency	
	Should have minimum 370W PoE Budget	
	The switch automatically assigns the required power to a port for a PD device based on Link Layer Discovery Protocol (LLDP)	
4	Layer 2 Features	
	Shall support 16K MAC address table	
	Shall support up to 4,000 port or IEEE 802.1Q-based VLANs	
	Shall support Jumbo frames on GbE ports	
	Internet Group Management Protocol (IGMP)	
	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	

	Shall support Voice VLAN feature to automatically assigns VLAN and priority to devices like IP phones	
5	QoS	
	Should provide time-sensitive packets (like VoIP and video) with priority over other traffic based on DSCP or IEEE 802.1p classification.	
	IEEE 802.1p/Q VLAN tagging	
	Should support Class of Service (CoS)	
	Should support Advanced classifier based QoS	
6	Management Features	
	GUI based software utility and using web interface	
	SNMPv1, v2, and v3 and Remote monitoring (RMON) support	
7	Environmental Features	
	Operating temperature: 0°C to 40°C	
8	Security	
	EN/IEC 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 EN/IEC 62368-1, 2nd. & 3rd. Ed. UL 62368-1, 2nd. & 3rd. Ed. CAN/CSA C22.2 No. 62368-1, 2nd. & 3rd. Ed.	
9	OEM qualification Criteria	
	OEM should be leaders in Gartner magic quadarant report for wired and wireless in last three consecutive years	
	Approved Makes : Cisco/HPE/Juniper/Extream/Arista/	
10	Warranty and Support	
	Shall be offered with Three years hardware warranty directly from the OEM	
9U Wall Mount Rack - 1 No		
Sl No	Technical Specification	Qty
1	9U Wall Mount Network Rack	1 No
2	Width 550 MM, depth 500 MM or higher	
3	Front Glass Door	
4	Horizontal closed cable manager 1U, Fan Unit, Hardware kit	
5	Rack mount PDU, 16A, 2U standard with minimum 6 X Indian Round Pin 5/15A, Inlet Plug type 16A Indian Round Pin, 16A MCB	
6	Approved Makes : Netrack/Rittal/APC	

Passives		
Sl No	Technical Specification	Qty
1	Supply, laying, certification and documentation of 23 AWG Solid copper CAT-6 UTP cable through the existing conduit or casing and capping as required. Approved Make: D-Link, Molex, R&M, Commscope.	210 Mtr
2	Supply and fixing of 25mm medium PVC ivory conduit on surface/recess using suitable size fixtures spacing not exceeding 50cm including making good the damage colour washing etc as required Preferred Make: Toms, Balco, Espee or equivalent	175 Mtr
3	Supply and fixing 24 port CAT-6 fully loaded Modular type Patch Panel including termination charges. Node numbers should be neatly written in patch pannel. Approved Make: D-Link, Molex, R&M, Commscope.	1
4	Supply, laying, testing, certification and documentation of CAT 6, 1Mtr standard factory crimped patch cord. Approved Make:- D-Link, Molex, R&M, Commscope.	5
5	Supply, laying, testing, certification and documentation of CAT 6, 3Mtr standard factory crimped patch cord. Approved Make:- D-Link, Molex, R&M, Commscope.	5
6	Supply, fixing and certification of PVC Backbox for I/O	5
7	Supply, fixing and certification of Shuttered faceplate for CAT6 I/O Approved Make:- D-Link, Molex, R&M, Commscope.	5
8	Supply, fixing, testing and certification of CAT6 I/O Keystone	5

Special Condition for this work:

- Bidder should quote all item in unit price and total pricing inclusive of GST.
- Bidder should have experience in the related field of IT infrastructure in undertaking and executing similar work as in this tender.
- The Bidder should have at least one service centre in Thiruvananthapuram and Ernakulam.
- A certificate duly signed by the firm, Bidder, accepting the above mentioned terms and conditions may be attached along with the tender documents
- All technical details of the components including the make, model number etc shall be mentioned.
- Product warranty should be clearly mentioned.

- C-DIT reserves the right to accept any bid, and to annul the Tender process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the Purchaser's action
- Service/Support should be made available as and when required within 2 hours of call reporting.
- Payment will be made through cheque after successful completion and testing of the Network.
- In case Recessing/ Trenching of wall/ floor required for the laying of conduits/ cables, the same should be made in a proper way. Should be refilled/ closed to make it good.
- The Maximum execution of the work will be 15 days.

1. **ELIGIBILITY CRITERIA OF TENDERER**

- To qualify for award of the work, the intending tenderer must have prior experience in executing similar work for which documentary evidence in terms of work order executed in the last one year for value of at least Rs 1.0 lakh per project.
2. The Tenderers are responsible for effecting shifting to the entire satisfaction of the undersigned or his authorized representatives. In case any defect in the item supplied is noticed, such item will be rejected at the risk and cost of the Supplier.
 3. The undersigned reserve himself the rights of accepting the whole or any part of the tender and the tenderer shall be bound to supply the accepted item at the rates quoted.
 4. CDIT reserves the right to split the quantity of the items to be supplied among one or more bidders, at its sole discretion.
 5. No advance payment will be made against supplies.
 6. The rate quoted by the Tenderer shall be inclusive of the transportation charges, installation charges and unloading charges at site.
 7. Date of completion of work shall be specifically indicated in the tender and strictly adhered to. The work shall be completed within 7 days on receipt of the firm order. Any delay in the completion of work after the work order is placed may result in cancellation of the work order.

8. The rate should be quoted for the unit shown in the list and tenders which do not indicate this essential information will not be considered.

9. The supplier shall submit the price offers in “Form B” in sealed envelope.

10. The rate quoted for material shall be final and no enhancement will be allowed under any circumstances.

11. If the tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

12. Any dispute / differences between the parties arising out of and in connection with the contract shall be settled amicably by mutual negotiations. Unresolved disputes/ differences, if any, shall be settled by Arbitration and the arbitration proceedings shall be conducted at Thiruvananthapuram (India) in English language, under the Indian Arbitration and Conciliation Act(Amended), 2015. Unsettled disputes will be referred to courts and courts in Thiruvananthapuram/ Kerala will have exclusive jurisdiction over the same.

13. PAYMENT TERMS

The following terms of payment shall be applicable for the contract

- I. 100 % payment through bank cheque against successful completion of work and certified by the competent authority from C-DIT
- II. All applicable taxes shall be separately indicated in the tender. Only those taxes which are mentioned will be payable by C-DIT against invoice.

14. Agreement: The Successful bidder within 7 days of getting confirmed work order has to enter an agreement with C-DIT in Rs.200 worth non judicial stamp paper, to ensure warranty and after sales support during the warranty period.

15. Authority: The authority for the acceptance of the tenders rests exclusively with the C-DIT. The C-DIT does not undertake to accept the lowest or any particular tender or to assign any reason whatsoever for the rejection of any tender.

16. EMD : Rs. 5,000 (Rupees five thousand only) in the form of Demand draft drawn in favour of Registrar, C-DIT payable at Thiruvananthapuram.

17. The last date for submission of tender 06.02.2023, 3.00 Pm The tender will be opened on the same day at 3.30 PM

18. At any time prior to the deadline for submission of tenders, the C-DIT may, for any reason deemed fit by it, modify/amend the tender documents by issuing suitable amendment(s)/ corrigendum's to it. Corrigendum to this tender shall be published in the site www.cdit.org. Prospective bidders are advised to regularly visit the website: www.cdit.org to keep track of corrigendum, if any.

19. In case of doubt:

If the bidder has any doubt on technical specifications or on terms & conditions stipulated above, please contact Sri. Pradeep N.S in Mobile Number: 9995017924

Sd/
REGISTRAR, C-DIT
Dated 27.01.2023



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Chithranjali Hills, Thiruvallam P.O., Thiruvananthapuram – 695 027

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Date: 27.01.2023

FORM - B

Sl.NO	Item Description	Qty	Unit Price	GST	Total Price
1	WiFi6 Access Point	5 Nos			
2	24 Port PoE Access Switch	1 No			
3	9U Wall Mount Rack	1 No			
4	Supply, laying, certification and documentation of 23 AWG Solid copper CAT-6 UTP cable through the existing conduit or cassing and capping as required. Approved Make: D-Link, Molex, R&M, Commscope.	210 Mtr			
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7	Supply, laying, testing, certification and documentation of CAT 6, 1Mtr standard factory crimped patch cord. Approved Make:- D-Link, Molex, R&M, Commscope.	5 Nos			

8	Supply, laying, testing, certification and documentation of CAT 6, 3Mtr standard factory crimped patch cord. Approved Make:- D-Link, Molex, R&M, Commscope.	5 Nos			
9	Supply, fixing and certification of PVC Backbox for I/O	5 Nos			
10	Supply, fixing and certification of Shuttered faceplate for CAT6 I/O Approved Make:- D-Link, Molex, R&M, Commscope.	5 Nos			
11	Supply, fixing, testing and certification of CAT6 I/O Keystone	5 Nos			
Total					

Date

Stamp

Name & Signature of Bidder