

Supply, Installation and Commissioning of Network Active Components

Tender No. IKM/TP/05/2021

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Information Kerala Mission

(Local Self Government Department, Government of Kerala)
SwarajBhavan, Ground Floor, Nandancode, Kawdiar PO,
Thiruvananthapuram, Kerala 695003
www.ikm.gov.in

Tender Notice

Information Kerala Mission (IKM) invites bids for Supply, Installation, Testing and Commissioning of Network Active Components at the office of Information Kerala Mission located at SwarajBhavan, Nanthancode, Thiruvananthapuram in two-Bid System.

Tender No.& Date : **IKM/TP/05/2021 Dated 08.03.2021**

Reference No : **IKM/PW1/3254/2020**

Description : Supply, installation, testing and commissioning of Network Active Components at Information Kerala Mission

Last Date of receipt : **22.03.2021 3.PM**

Date of Opening : **23.03.2021 11.00 AM at Office of Information Kerala Mission, Thiruvananthapuram.**

Venue of Opening : Information Kerala Mission,
SwarajBhavan, Ground Floor,
Nandancode,Kowdiar PO,
Thiruvananthapuram, Kerala-695 003

Tender Fee : **Rs. 1411/- (Non-transferable and non-refundable)**

Earnest Money Deposit (EMD) : **Rs. 4200/- (Rupees four thousand two hundred only)**

Yours sincerely,



Executive Director

Terms and Conditions

1. The sealed bids are to be submitted in prescribed format on your business letter head duly stamped and signed and dated on each page of Part 'A','B' & 'C' as their unconditional acceptance to the terms prescribed by the Information Kerala Mission, details/supporting documents wherever applicable, if attached with the bids should be duly authenticated by the vendor/s. No overwriting shall be accepted unless authenticated with full signature of the vendor/s.
2. Each bid shall submit the offer in two separate sealed envelopes, Part A & Part B. Envelop No. 1 (mark the envelope as "No.1 Part A - Technical Bid"), Envelop No. 2 will contain only Part 'B' (mark the Envelope as "No.2 Part B - Financial Bid"). Both the sealed envelopes bearing No. 1 and 2 are to be put in the main envelop i.e. Envelop No.3.
3. The bids duly superscribed "Supply, Installation and commissioning of Network Active Components at Information Kerala Mission", shall be addressed by name to the Executive Director and send to the address given below either by registered post/speed post/ or by dropping in the tender box placed at IKM Headquarter & should reach on or before the last date and time.

Address :

The Executive Director,
Information Kerala Mission,
Swaraj Bhavan, Ground Floor,
Nandancode, Kawdiar PO,
Thiruvananthapuram, Kerala 695003
Ph: 0471 2773100

4. Bids received after the stipulated date and time shall not be entertained. IKM shall not be liable for any postal delays what so ever and tender received after the stipulated time/date are liable to be rejected summarily without giving any reason.
5. The Technical Bid shall be opened on the scheduled time at the office of the IKM in the presence those tenderer(s) who wish to be present. No separate communication will be sent in this regard. In the event of due date being a holiday or declared Holiday for the State Government offices, the due date for opening of the bids will be the following working day at the appointed date, time & venue.
6. IKM shall have the right to assess the competencies and capabilities of the Tenderer by going through the credentials given in the Technical Bid and on the basis of such credentials, IKM may reject the candidature of the Tenderer without assigning any reason. In such case(s) the Financial Bid shall not be opened for that particular Tenderer. The Financial Bid of only those parties who qualify in the technical scrutiny

shall be opened and time and date for opening the financial bid shall be intimated separately.

7. Prices quoted should be F.O.R IKM Headquarters at Thiruvananthapuram and should be inclusive of all charges.
8. Though IKM prefers to deal with manufacturers/principal manufacturers directly, it may also consider the offers received through its authorized channel partners, provided the principal authorizes the said channel partner in this regard.
9. Delivery, installation and commissioning should be completed within Four week from the date of the confirmed purchase order.
10. The Tender shall be valid for at least 90days from the date of opening of quotations.
11. The cost of tender form/Earnest Money Deposit (EMD) will be received in the form of Demand Draft in favour of Executive Director, Information Kerala Mission, payable at Thiruvananthapuram. This has to be included in the Envelop No. 1 (Part A - Technical Bid). The EMD submitted by unsuccessful bidders will be returned after finalisation of the tender process. The details regarding tender fee and EMD are included in the tender notice.
12. The firms who have been exempted from paying EMD and tender fee has to submit the necessary supporting documents along with the Technical Bid.
13. The payment terms are 30 days for 100% payment upon successful supply, installation, commissioning and acceptance of the supplied material. Vendor will be fully responsible for comprehensive technical support free of charge during the warranty period and in case of default, IKM will have the right to arrange maintenance at vendor's risk and cost.
14. All disputes, differences, claims and demands arising under or pursuant to or touching the contract shall be referred to the arbitrator to be appointed by the Executive Director of the Information Kerala Mission. The award of the sole arbitrator shall be final. Place of such arbitration proceedings shall be at Thiruvananthapuram.
15. The IKM reserves the right to accept or reject any or all tenders including the lowest quotation/tenders without assigning any reason at its sole discretion and the decision of IKM will be final and binding on all concerned.
16. The quantities indicated in BOQ are tentative and may be increased at the sole discretion of IKM and the vendor shall have not right to claim any minimum/definite volume of business.
17. For any technical details/clarifications, Purchase Officer, IKM would be the point of contact.

Special Condition

1. Completion Certificate: Work Completion certificate shall be issued only after completion of work in all respect as per RFP and to the entire satisfaction of IKM.
2. Training: Upon completion of the installation & commissioning, the Successful Bidder shall provide the hands-on training on the installed equipment to the concerned officials along with the training materials on the equipment installed at IKM.
3. Warranty Period: All the equipment, active and passive components supplied against this RFP and the total solution shall have warranty for a period of 5 (Five) years from the date of installation and commissioning.
4. Bidders should share all the relevant firmware/OS/Patches etc. as and when they are released by OEM during entire warranty period at no cost to IKM.
5. The vendor will liaison on behalf of IKM, with other different OEMs for repairing or replacing of equipment(s) and all other accessories during warranty period.
6. If any of the facilities provided by the bidder is not found acceptable, IKM has the complete right to reject the facilities without giving any compensation.
7. The evaluation will be done on the item wise total bid value. The bidder is required to quote for all the items of the BOQ. Partial bid is liable to be rejected.
8. Delivery of the equipment should be within 4 weeks after receiving the purchase order. The delivery location would be the Office of the Information Kerala Mission, Swaraj Bhavan, Nanthancode, Thiruvananthapuram.
9. IKM has the right to disqualify any vendor if they fail to provide the necessary clarifications or documents.
10. IKM has the right to amend or cancel the tender in part or in full without prior notice at any point of time.
11. The decision of IKM in all matters will be final and conclusive.
12. Successful bidder shall deposit 5% of the total value of the order towards security deposit in Demand Draft/ Bank guarantee in favour of "Executive Director, Information Kerala Mission" payable at Thiruvananthapuram and execute an agreement in stamp paper worth Rs.200/- within 7 days from the date of receipt of supply order. The security deposit will be released within three months after the expiry of the warranty period.

Eligibility Criteria

1. The Bidder should be OEM or Authorized Dealer/Distributor/System Integrator/ Company/Firm of the OEM of the offered product.

2. Bidder should have experience of having successfully completed similar project during the last 3 years. The term “Similar Works” means Supply, Installation, Testing and commissioning of Networking projects which includes Switches.
3. Any Government / Government agency / Banks / Financial Institutions in India should not have blacklisted the Bidder during the last 5 years. Self-declaration to that effect should be submitted along with the technical bid.
4. The firm must possess valid GST/Sales Tax Registration Certificate. (attested copies of all the above certificates should be submitted along with the proposal).
5. Bidder must provide necessary supporting documents as proof in respect of the eligibility criteria mentioned above.
6. Bidder shall have a direct purchase and support agreement with the OEMs. The bidder should submit valid letter from all the OEMs (whose products are being quoted) confirming the following:
 - a. Authorization for bidder
 - b. Confirm that the products quoted are not end-of-life till its warranty period.
 - c. Warranty as mentioned in the Special conditions/specification

Scope of Work

The scope of work includes Supply, Installation, Testing, and Commissioning of Network Active Components at the office of Information Kerala Mission, Thiruvanthapuram and training of the complete system to concerned officials. The details of scope of work are as follows:

1. Supply of network switches at the office of IKM.
2. Fixing of those active components in the racks placed at various locations in the IKM office.
3. Installation, testing and commissioning of the complete system and test run of the same.
4. Demonstration of all features and management of the system to the IKM technical team.
5. Submission of all reports including technical documents, manuals etc to IKM technical team.
6. Providing training on all aspects of the system, configuration and maintenance to IKM technical team.
7. Any Software update/enhancement released till the completion of warranty period (05 year) shall be supplied, installed and commissioned free of cost. However, after

warranty, supplier must be informing about such updating for IKM's considerations at reasonable cost.

8. All tools, tackles, testing instruments, consumables etc. as required during all operations such as supply, installation, testing, commissioning etc. shall be provided by the Bidder at no extra cost for completing the scope of work as per these specifications. The Bidder shall undertake all testing and commissioning activities and shall provide all assistance during inspection and testing of the systems' functioning by the IKM.
9. Powering on equipment after ensuring correctness of terminations, interfaces and power supply and making the system ready for testing and commissioning.

Technical Specification

All access switches should be same make

Access Switch 24 Port

Technical Specification of 24 port Access Switch

Device Type	1 U Rack mountable Layer 2 manageable 24 Port switch
	Switch should contain 24x10/100/1000Base-T copper port with minimum 2 uplink ports supporting 10G
Performance	Switching Capacity: 56 Gbps or Higher
	Throughput (64-byte packet size) : 41.67 Mpps or Higher
Interfaces	24 x 10/100/1000Base-T RJ-45
	2 x 10G RJ-45 for uplink. SFP+ Capable
Flash Memory, RAM	128 MB or better, 256 MB or better
MAC Address Table Size	16K entries or better
Capacity	Active VLANs: 4096
	IPv4 and IPv6 ACLs
	Jumbo Frame Support
Authentication Method	Should support RADIUS, TACACS+
Routing Protocol	Should support IGMP, static IPv4 routing, static IPv6 routing, CIDR
Remote Management Protocol	Should support SNMP 2, SNMP, RMON, Telnet, SNMP 3, HTTP, HTTPS, TFTP, SSH, SSH-2, CLI, SCP
Complaint Standards	Should support IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.3ae, IEEE 802.1s, IEEE 802.1ab (LLDP), IEEE 802.3an, IEEE 802.3az
Features	Should support Layer 2 switching, Layer 3 switching, DHCP support, IGMP snooping, Syslog support, DoS attack prevention, port mirroring, IPv6 support, STP support, Spanning Tree Protocol (STP) support, DHCP snooping, Access Control List (ACL) support, Quality of Service (QoS), DHCP server, IPv4 support, DHCP relay, Port Security, Class of Service (CoS), Duplicated Address Detection, VLAN mirroring, DNS client, Voice VLAN, VLAN management, IP/Mac/Port Binding (IPMB)

Warranty	5 year warranty from original equipment manufacturer
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Access Switch 24 Port PoE+

Technical Specification of Access Switch 24 with PoE+

Make & Model :

Device Type	1 U Rack mountable Layer 2 manageable 24 Port switch with PoE+
	Switch should contain 24x10/100/1000Base-T copper port with minimum 2 uplink ports supporting 10G
Power Over Ethernet	PoE+
Performance	Switching Capacity: 56 Gbps or Higher
	Throughput (64-byte packet size) : 41.67 Mpps or Higher
Interfaces	24 x 10/100/1000Base-T RJ-45
	2 x 10G RJ-45 for uplink. SFP+ Capable
Flash Memory, RAM	128 MB or better, 256 MB or better
Power Dedicated to PoE	185 W or better
No. of ports supports PoE	24 Ports
MAC Address Table Size	16K entries or better
Capacity	Active VLANs: 4096
	IPv4 and IPv6 ACLs
	Jumbo Frame Support
Authentication Method	Should support SSH, RADIUS, TACACS+
Routing Protocol	Should support Static IPv4 routing, CIDR
Remote Management Protocol	Should support SNMP 2, SNMP, RMON, Telnet, SNMP 3, HTTP, HTTPS, TFTP, SSH, SSH-2, CLI, SCP
Complaint Standards	Should support IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.3ae, IEEE 802.1s, IEEE 802.1ab (LLDP), IEEE 802.3an, IEEE 802.3az
Features	Should support Layer 2 switching, Layer 3 switching, DHCP support, IGMP snooping, Syslog support, DoS attack prevention, port mirroring, IPv6 support, STP support, Spanning Tree Protocol (STP) support, DHCP snooping, Access Control List (ACL) support, Quality of Service (QoS), DHCP server, IPv4 support, DHCP relay, Port Security, Class of Service (CoS), Duplicated Address Detection, VLAN mirroring, DNS client, Voice VLAN, VLAN management, IP/Mac/Port Binding (IPMB)
Warranty	5 Year warranty from original equipment manufacturer

Access Switch 48 Port

Technical Specification of Access Switch 48 Ports

Device Type	1 U Rack mountable Layer 2 manageable 48 Port switch
	Switch should contain 48 x10/100/1000Base-T copper port with minimum 2 uplink ports supporting 10G
Performance	Switching Capacity: 104 Gbps or Higher
	Throughput (64-byte packet size) : 77.38 Mpps or Higher

Interfaces	48 x 10/100/1000Base-T RJ-45
	2 x 10G RJ-45 for uplink. SFP+ Capable
Flash Memory, RAM	128 MB or better, 256 MB or better
MAC Address Table Size	16K entries or better
Capacity	Active VLANs: 4096
	IPv4 and IPv6 ACLs
	Jumbo Frame Support
Authentication Method	Should support RADIUS, TACACS+
Routing Protocol	Should support IGMP, static IPv4 routing, static IPv6 routing, CIDR
Remote Management Protocol	Should support SNMP 2, SNMP, RMON, Telnet, SNMP 3, HTTP, HTTPS, TFTP, SSH, SSH-2, CLI, SCP
Complaint Standards	Should support IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.3ae, IEEE 802.1s, IEEE 802.1ab (LLDP), IEEE 802.3an, IEEE 802.3az
Features	Should support Layer 2 switching, Layer 3 switching, DHCP support, IGMP snooping, Syslog support, DoS attack prevention, port mirroring, IPv6 support, SNTP support, Spanning Tree Protocol (STP) support, DHCP snooping, Access Control List (ACL) support, Quality of Service (QoS), DHCP server, IPv4 support, DHCP relay, Port Security, Class of Service (CoS), Duplicated Address Detection, VLAN mirroring, DNS client, Voice VLAN, VLAN management, IP/Mac/Port Binding (IPMB)
Warranty	5 Year warranty from original equipment manufacturer

Bill of Material

SI No	Item	Qty	Unit
1	Access Switch 24 Port as per specification	4	Nos
2	Access Switch 24 Port PoE+ as per specification	2	Nos
3	Access Switch 48 Port as per specification	3	Nos
4	Installation, Testing and Commissioning	1	Lumpsum

Part A. Technical Bid

Profile of the Bidder

Supply, installation, testing and commissioning of Network Active Components at Information Kerala Mission

1.	Name and complete address of the Tendered Company	
2.	Tele/Fax/E-mail/Cell No. of the Tendered Company	
3.	Contact person's name & designation and telephone No.	
4.	Details of registered office, if any, along with contact person's name and tele. No.	
5.	Legal status i.e. public / private limited / any other along with documentary evidence.	
7.	Income-Tax registration number along with documentary evidence.	
8.	GSTIN number along with documentary evidence.	
9.	List of existing major clients to whom IP based network surveillance implemented in last 2 years, installed and implemented with details of company, value of business, concerned person name & his telephone no. (Please attach full details)	

Date

Name and Signature of Bidder
with Corporate Seal

Technical Compliance

Technical compliance to be filled in the letterhead of the bidder and duly signed by the signing authority. To be submitted along with the technical bid.

Access Switch 24 Port

Make & Model :

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Device Type	1 U Rack mountable Layer 2 manageable 24 Port switch		
	Switch should contain 24x10/100/1000Base-T copper port with minimum 2 uplink ports supporting 10G		
Performance	Switching Capacity: 56 Gbps or Higher		
	Throughput (64-byte packet size) : 41.67 Mpps or Higher		
Interfaces	24 x 10/100/1000Base-T RJ-45		
	2 x 10G RJ-45 for uplink. SFP+ Capable		
Flash Memory, RAM	128 MB or better, 256 MB or better		
MAC Address Table Size	16K entries or better		
Capacity	Active VLANs: 4096		
	IPv4 and IPv6 ACLs		
	Jumbo Frame Support		
Authentication Method	Should support RADIUS, TACACS+		
Routing Protocol	Should support IGMP, static IPv4 routing, static IPv6 routing, CIDR		
Remote Management Protocol	Should support SNMP 2, SNMP, RMON, Telnet, SNMP 3, HTTP, HTTPS, TFTP, SSH, SSH-2, CLI, SCP		
Complaint Standards	Should support IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.3ae, IEEE 802.1s, IEEE 802.1ab (LLDP), IEEE 802.3an, IEEE 802.3az		
Features	Should support Layer 2 switching, Layer 3 switching, DHCP support, IGMP snooping, Syslog support, DoS attack prevention, port mirroring, IPv6 support, STP support, Spanning Tree Protocol (STP) support, DHCP snooping, Access Control List (ACL) support, Quality of Service (QoS), DHCP server, IPv4 support, DHCP relay, Port Security, Class of Service (CoS), Duplicated Address Detection, VLAN mirroring, DNS client, Voice VLAN, VLAN management, IP/Mac/Port Binding (IPMB)		

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Warranty	5 years warranty from original equipment manufacturer		

Access Switch 24 Port PoE+

Make & Model :

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Device Type	1 U Rack mountable Layer 2 managed 24 Port switch with PoE+		
	Switch should contain 24x10/100/1000Base-T copper port with minimum 2 uplink ports supporting 10G		
Power Over Ethernet	PoE+		
Performance	Switching Capacity: 56 Gbps or Higher		
	Throughput (64-byte packet size) : 41.67 Mpps or Higher		
Interfaces	24 x 10/100/1000Base-T RJ-45		
	2 x 10G RJ-45 for uplink. SFP+ Capable		
Flash Memory, RAM	128 MB or better, 256 MB or better		
Power Dedicated to PoE	185 W or better		
No. of ports supports PoE	24 Ports		
MAC Address Table Size	16K entries or better		
Capacity	Active VLANs: 4096		
	IPv4 and IPv6 ACLs		
	Jumbo Frame Support		
Authentication Method	Should support SSH, RADIUS, TACACS+		
Routing Protocol	Should support Static IPv4 routing, CIDR		
Remote Management Protocol	Should support SNMP 2, SNMP, RMON, Telnet, SNMP 3, HTTP, HTTPS, TFTP, SSH, SSH-2, CLI, SCP		
Complaint Standards	Should support IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.3ae, IEEE 802.1s, IEEE 802.1ab (LLDP), IEEE 802.3an, IEEE 802.3az		

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Features	Should support Layer 2 switching, Layer 3 switching, DHCP support, IGMP snooping, Syslog support, DoS attack prevention, port mirroring, IPv6 support, SNMP support, Spanning Tree Protocol (STP) support, DHCP snooping, Access Control List (ACL) support, Quality of Service (QoS), DHCP server, IPv4 support, DHCP relay, Port Security, Class of Service (CoS), Duplicated Address Detection, VLAN mirroring, DNS client, Voice VLAN, VLAN management, IP/Mac/Port Binding (IPMB)		
Warranty	5 Years warranty from original equipment manufacturer		

Access Switch 48 Port

Make & Model :

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Device Type	1 U Rack mountable Layer 2 managed 48 Port switch		
	Switch should contain 48 x10/100/1000Base-T copper port with minimum 2 uplink ports supporting 10G		
Performance	Switching Capacity: 104 Gbps or Higher		
	Throughput (64-byte packet size): 77.38 Mpps or Higher		
Interfaces	48 x 10/100/1000Base-T RJ-45		
	2 x 10G RJ-45 for uplink. SFP+ Capable		
Flash Memory, RAM	128 MB or better, 256 MB or better		
MAC Address Table Size	16K entries or better		
Capacity	Active VLANs: 4096		
	IPv4 and IPv6 ACLs		
	Jumbo Frame Support		
Authentication Method	Should support RADIUS, TACACS+		
Routing Protocol	Should support IGMP, static IPv4 routing, static IPv6 routing, CIDR		
Remote Management Protocol	Should support SNMP 2, SNMP, RMON, Telnet, SNMP 3, HTTP, HTTPS, TFTP, SSH, SSH-2, CLI, SCP		

Feature	Specification	Compliance (Yes/No)	Reason Deviation (if any)
Complaint Standards	Should support IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.3ae, IEEE 802.1s, IEEE 802.1ab (LLDP), IEEE 802.3an, IEEE 802.3az		
Features	Should support Layer 2 switching, Layer 3 switching, DHCP support, IGMP snooping, Syslog support, DoS attack prevention, port mirroring, IPv6 support, SNTP support, Spanning Tree Protocol (STP) support, DHCP snooping, Access Control List (ACL) support, Quality of Service (QoS), DHCP server, IPv4 support, DHCP relay, Port Security, Class of Service (CoS), Duplicated Address Detection, VLAN mirroring, DNS client, Voice VLAN, VLAN management, IP/Mac/Port Binding (IPMB)		
Warranty	5 Years warranty from original equipment manufacturer		

Part B. Financial Bid

PART B. FINANCIAL BID

Supply, installation, testing and commissioning of Network Active Components at Information Kerala Mission

SI No	Item	Qty	Unit	Unit Rate	Amount (Rate x Qty)	Total Tax	Total Amount (Amount x Total tax)
1	Access Switch 24 Port as per specification	4	Nos				
2	Access Switch 24 Port PoE+ as per specification	2	Nos				
3	Access Switch 48 Port as per specification	3	Nos				
4	Installation, Testing and Commissioning	1	Lum psum				
	Grand Total						

Date

Name and Signature of Bidder
with Corporate Seal

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