

KERALA PUBLIC SERVICE COMMISSION

No. R&A I (3) 50018/2018/KPSC (2)

Thiruvananthapuram,

Dated: 17 /01/2020

E-TENDER NOTICE

Invitation of E-Tender for the supply and installation of **15 (Fifteen) numbers of 48 Port Access Switch and 3 (Three) numbers of 24 Port Access Switch** at the offices of the Kerala Public Service Commission, pattom, Thiruvananthapuram.

E-Tender in one cover system is invited from competent dealers and manufacturers for the supply and installation of **15 (Fifteen) numbers of 48 Port Access Switch and 3 (Three) numbers of 24 Port Access Switch** in accordance with respective specifications as shown in Annexure I of the Tender document.

Sl No.	Item Details	Quantity (Nos)	Cost of Tender Forms	Combined Cost of Tender Forms	EMD	Combined EMD
1	48 Port Access Switch	15	Rs. 1350/-	Rs. 1,488/-	Rs. 16875/-	Rs. 18,600/-
2	24 Port Access Switch	3	Rs. 138/-		Rs. 1725/-	

Tenders shall be submitted as e-tender through <https://etenders.kerala.gov.in>. Bidders who have enrolled in the above portal with their own digital signature certificate (DSC) can participate in the tender. For obtaining digital signature certificate (DSC) and necessary portal enrollment bidders can visit the above website. E-Tender document and other details can be obtained from the above e-portal.

Tender no. : 7/2020/SN
Document download/sale start date : 18/01/2020
Bid submission start date : 18/01/2020
Document closing date : 03/02/2020 – 5.00 pm
Date & Time of opening of tender : 05/02/2020 - 2.30 pm

Cost of e-Tender & EMD (Online payment):-

Payment as shown in the above table including EMD should be made as a single payment through online.

Dates upto which rates are to remain-
firm for acceptance : 90 days
Performance security : 5% of the contract value
Period of supply : within 20 days of supply order

The bidder desiring to take part in the bid shall log in to <https://etenders.kerala.gov.in/> and then select tender and initiate payment. Bidders will be directed to the online payment gateway page and they shall make payment as directed therein.

The e-tenders submitted by the competent dealer should definitely contain a scanned and signed copy of the declaration of product offered to supply and dealership certificate from the manufacturer.

Tenders will be opened in the online presence of each bidders or their authorized representatives who have logged in at the prescribed time of opening. If the date fixed for opening happens to be holiday or due to net failure the tenders will be opened in the next working day at the same time.

The price of the e-tender form will be received only through online payment methods stipulated in the website.

Scanned copy of the agreement (Annexure III) in the prescribed format in Kerala Stamp paper worth Rs.200/- shall be submitted online and original shall be given to the Secretary, Kerala Public Service Commission before opening of e-tender.

The rates should be quoted in Indian Currency only.

Details with respect to the e-tender and the details of specifications (Annexure I & Annexure II) of the item to be supplied can be obtained from the e-tender website <https://etenders.kerala.gov.in>.

The Secretary, Kerala Public Service Commission, Pattom will scrutinise the tenders received and will take necessary action for the award of contract.

The right of acceptance or rejection of any e-tender in full or in part without assigning any reasons thereof is reserved with the Secretary.

The rules and regulations prescribed for e-tenders by the Government of Kerala, shall be applicable to this e-tender also.

Terms and Conditions:

1. The make, model, year of manufacture etc of the network switches shall be clearly mentioned.
2. **Five years Comprehensive Onsite OEM warranty should be assured. Dealership/Authorization and Warranty Certificates from OEM shall be submitted with the tender. Dealership warranty will not be accepted.**
3. All charges, taxes, duties and levies should be clearly indicated.
4. The items should be supplied to the office of the Kerala public Service Commission, Pattom, Thiruvananthapuram-4 at the expense of the Tenderer.
5. **The Product should be supplied within 20 days from the date of Purchase Order, otherwise the tender will be cancelled without any prior intimation.**
6. The installation, commission and initial operation to the satisfaction of the KPSC will be the responsibility of the supplier.
7. The payment will be made after completion of supply, installation and commission subject to the certification by our Technical Experts as to the quality and efficiency of the item supplied.

8. In case of under performance during the warranty period, the item should be replaced and period of warranty will recommence from the date of replacement.

Any legal disputes that may arise in relation to the e-tender formalities will be restricted to jurisdiction of Thiruvananthapuram District.

The communications should be addressed to :

The Secretary,
Kerala Public Service Commission
Pattom, Thiruvananthapuram
Kerala-695004

SAJU GEORGE
SECRETARY,

KERALA PUBLIC SERVICE COMMISSION

Note:- More details can be had from the office of **Additional Secretary, R&A wing, Kerala Public Service Commission, Pattom, Thiruvananthapuram-4**

ANNEXURE-1

SPECIFICATION FOR 48 PORT ACCESS SWITCH.

Sl. No.	Component	Description
1	General Requirements	Manageable switch should have minimum 48 x GE RJ45 ports and 4 x GE SFP ports
2		Proposed switch should have a RJ-45 Serial console port.
3		The form factor of the proposed switch should be 1 RU Rack- Mount Appliance.
4		Switching capacity of the proposed switch should be minimum 104 Gbps.
5		Packet per second capacity of the switch should be minimum 150 Mbps.
6		Proposed Switch should support minimum 16 K MAC address storage.
7		Proposed switch should support 4000 VLANs.
8		Should support min DRAM – 256 MB, maximum to be specified.
9	Layer 2 Requirements	Should support Jumbo frames and link auto-negotiation.
10		Should support Spanning Tree Protocol MSTP native, and backwards compatible with RTSP, STP and STP Root & BPDU Guard.
11		Should support Edge Port/ Port Fast.
12		IEEE 802.1 AX Link aggregation.

13		IEEE 802.1q VLAN tagging, IEEE 802.1 ab Link Layer Discovery Protocol (LLDP), IEEE 802.1 ab LLDP-MED, DHCP-Snooping.
14		Should support Unicast/Multicast traffic balance over trunking port for dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac
15		Should support IEEE 802.3x Flow Control and Back-pressure, IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3z ,1000Base-SX/LX, IEEE 802.3ab 1000Base-T
16	Authentication Requirements	Admin Authentication Via RFC 2865 RADIUS
17		Should support 802.1x port-based authentication
18		Should support 802.1x MAC-based authentication, IEEE 802.1x MAC Access Bypass (MAB)
19		Should support IEEE 802.1x Guest and Fallback VLAN
20		Should support IEEE 802.1x Dynamic VLAN Assignment
21		Switch should support local user database and can integrate with LDAP, RADIUS, TACACS+ servers
22	Management	Should support Telnet,SSH, HTTP,HTTPS with IPv4 and Ipv6 Management..
23		Switch should support SNMP v1, v2c and v3.
24		Software download/upload: TFTP/FTP/GUI
25		Proposed switch should be managed via both, GUI and CLI
26	Central Management	Should be ready to integrated with switch controller which offers visibility, user access control, and threat mitigation to quarantine automatically on the compromised host at the switch port level. If bidder not supported they should include switch controller with required hardware and license in the quotation.
27		Should support centralized security management, configuration and reporting through a single console from switch controller or from external NMS
28		Should have option to create switch profiles to allow specific settings to be applied to all authorized Switches.
29		Proposed switch should be managed by switch controller for performing the following configurations. VLAN, POE Control, RSTP/MSTP, 802.1x Authentication, Syslog Collection , Device Detection, Host Quarantine on Switch Port, QoS, Radius accounting(COA) and Centralized Firmware Management through this single pane of glass.

30		Centralized management should show the network topology of all managed switches through a single console
31		Switch should discover automatically by centralized switch controller and configures with Zero-touch provisioning.
32		Switch should automatically discover the controller when the controller is under an L3 network.
33	Environment	Power Required :100–240V AC, 50–60 Hz
34		Operating Temperature :0–50°C
35		Humidity : 10–90% non-condensing
36	Certification	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2
37	Warranty	Five years comprehensive Onsite OEM Warranty (should also specify in MAF) from the date of invoice
38	MAF	Manufacturer Authorization Required

ANNEXURE II

SPECIFICATION FOR 24 PORT ACCESS SWITCH.

Sl. No.	Component	Description
1	General Requirements	Manageable switch should have minimum 24 x GE RJ45 ports and 4 x GE SFPs
2		Proposed switch should have a RJ-45 Serial console port.
3		The form factor of the proposed switch should be 1 RU Rack- Mount Appliance.
4		Switching capacity of the proposed switch should be minimum 56 Gbps.
5		Packet per second capacity of the switch should be minimum 83 Mbps.
6		Proposed Switch should support minimum 8 K MAC address storage.
7		Proposed switch should support 4000 VLANs.
8		Should support min DRAM – 256 MB ddr3, maximum to be specified.
9	Layer 2 Requirements	Should support Jumbo frames and link auto-negotiation.
10		Should support Spanning Tree Protocol MSTP native, and backwards compatible with RTSP, STP and STP Root & BPDU Guard.
11		Should support Edge Port/ Port Fast.
12		IEEE 802.1 AX Link aggregation.

13		IEEE 802.1q VLAN tagging, IEEE 802.1 ab Link Layer Discovery Protocol (LLDP), IEEE 802.1 ab LLDP-MED, DHCP-Snooping.
14		Should support Unicast/Multicast traffic balance over trunking port for dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac
15		Should support IEEE 802.3x Flow Control and Back-pressure, IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3z ,1000Base-SX/LX, IEEE 802.3ab 1000Base-T
16	Authentication Requirements	Admin Authentication Via RFC 2865 RADIUS
17		Should support 802.1x port-based authentication
18		Should support 802.1x MAC-based authentication, IEEE 802.1x MAC Access Bypass (MAB)
19		Should support IEEE 802.1x Guest and Fallback VLAN
20		Should support IEEE 802.1x Dynamic VLAN Assignment
21		Switch should support local user database and can integrate with LDAP, RADIUS, TACACS+ servers
22	Management	Should support Telnet,SSH, HTTP,HTTPS with IPv4 and Ipv6 Management..
23		Switch should support SNMP v1, v2c and v3.
24		Software download/upload: TFTP/FTP/GUI
25		Proposed switch should be managed via both, GUI and CLI
26	Central Management	Should be ready to integrated with switch controller which offers visibility, user access control, and threat mitigation to quarantine automatically on the compromised host at the switch port level. If bidder not supported they should include switch controller with required hardware and license in the quotation.
27		Should support centralized security management, configuration and reporting through a single console from switch controller or from external NMS
28		Should have option to create switch profiles to allow specific settings to be applied to all authorized Switches.
29		Proposed switch should be managed by switch controller for performing the following configurations. VLAN, POE Control, RSTP/MSTP, 802.1x Authentication, Syslog Collection , Device Detection, Host Quarantine on Switch Port, QoS, Radius accounting(COA) and Centralized Firmware Management through this single pane of glass.
30		Centralized management should show the network topology of all managed switches through a single console
31		Switch should discover automatically by centralized switch controller and configures with Zero-touch provisioning.

32		Switch should automatically discover the controller when the controller is under an L3 network.
33	Environment	Power Required :100–240V AC, 50–60 Hz
34		Operating Temperature :32-104° F (0-40° C)
35		Humidity : 10–90% non-condensing
36	Certification	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2
37	Warranty	Five years comprehensive Onsite OEM Warranty (should also specify in MAF) from the date of invoice
38	MAF	Manufacturer Authorization Required