Website:www.keralapsc.gov.in
E-mail:jsrna.psc@kerala.gov.in

Telephone : 0471-2546396

KERALA PUBLIC SERVICE COMMISSION

No. RA 1-1/50009/2018-KPSC

Thiruvananthapuram,
Dated: 20.07.2022

E-TENDER NOTICE

Invitation of E-Tender for the supply and installation of **2 (Two) numbers of Servers** for the office use of the Kerala Public Service Commission.

E-Tender in one cover system is invited from competent dealers and manufacturers for the supply and installation of **2 (Two) numbers of Servers** in accordance with respective specifications as shown in Annexure I of the Tender document.

Sl No.	Item Details	Quantity (Nos)	Cost of Tender Forms	EMD
1	Servers	2 (Two)	Rs.2000/-	Rs.25,000/-

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.	: 10/2022/SN
Document download/sale start date	: 21/07/2022
Bid submission start date	: 21/07/2022
Document closing date	: 04/08/2022 – 5.00 pm
Date & Time of opening of tender	: 06/08/2022 - 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 15 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 II) 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) 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 Servers shall be clearly mentioned.
2. 5 years onsite OEM comprehensive warranty with 24x7 resolution SLA
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 15 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.

9. The Performance Security Deposit will be released after the expiry of Warranty Period.

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

Sd/-
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 I

Server 1

Sl. No	**Item**	**Specification**
1	Processor	Server should be populated with Intel Xeon Gold / AMD EPYC Processor
2	Processor frequency	Minimum 3.7 GHz Base frequency
3	Total no. of Cores Per Server	8
4	Processor Cache	128 MB or higher per processor
5	No. of Sockets	1 or 2
6	Memory slots	16 DDR4 DIMM slots, speed up to 3200 MT/s
7	Memory	64GB RAM (4x16GB) with 3200 Mhz memory speed (RDIMM, 3200 MT/s) or higher shall be populated
8	Memory Property	Should support Advanced ECC memory protection / Advanced Memory device correction.
9	RAID Controller	Integrated (or) Add-On RAID controller 12 Gbps PCIe 3.0 with RAID 1,5,6,10,50 with 6 GB NV cache or higher.
10	Disks Supported	Front drive bays: 2.5" Chassis with up to 8 Hot Plug Hard Drives
11	Hard Disks configured	4 x 2.4TB 10K RPM SAS ISE 12GBPS 2.5” Hot-plug. (Faulty Drive would not be returned).
12	Ethernet Ports	Server should have 2 x 10 GbE and 2 x 1 GbE Base- T Ports
13	FC Ports	Dual Port 16Gb Fibre Channel HBA, for storage connectivity
14	Redundant Power Supply	Server should have Platinum rated redundant power supply 500 W or higher.
15	Form Factor	Max. 1U rack mounted with sliding rails
16	Operating Systems Support (OS certified for)	Canonical Ubuntu Server LTS Citrix Hypervisor Microsoft Windows Server with Hyper-V Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXiCanonical Ubuntu Server LTS Citrix Hypervisor Microsoft Windows Server with Hyper-V Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXi
17	Pre-loaded OS	Ubuntu; Support by Hardware Vendor, 5 yr Premium Sub, 1 Physical with Unlimited VMs
18	Power & temperature	Real-time power meter, graphing, thresholds, alerts & capping with historical power counters. Temperature monitoring & graphing
19	Pre-failure alert	Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for fan, power supply, memory, CPU, RAID, NIC, HDD
20	HTML5 support	HTML5 support for virtual console & virtual media without using Java or ActiveX plugins

21	Embedded Remote Management and firmware security	System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder. It should supportserver power capping and historical reporting and should have support for multifactor authentication
22	Configuration & management	Server should have dedicated 1Gbps remote management port.
	Management (continued)	• Real-time out-of-band hardware performance monitoring & alerting • Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, external storage management, monitoring of FC, HBA & system health • Out-of-band hardware & firmware inventory • Zero-touch auto configuration to auto deploy a baseline server configuration profile• Real-time out-of-band hardware performance monitoring & alerting • Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, external storage management, monitoring of FC, HBA & system health • Out-of-band hardware & firmware inventory • Zero-touch auto configuration to auto deploy a baseline server configuration profile
	Management (continued)	• Automated hardware configuration and Operating System deployment to multiple servers • Zero-touch repository manager and self-updating firmware system • Virtual IO management / stateless computing • Support for Redfish API for simple and secure management of scalable platform hardware.• Automated hardware configuration and Operating System deployment to multiple servers • Zero-touch repository manager and self-updating firmware system • Virtual IO management / stateless computing • Support for Redfish API for simple and secure management of scalable platform hardware.
23	Server security	Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks
		Should protect against firmware which executes before the OS boots

		Should provide effective protection, reliable detection & rapid recovery using: - Silicon-based Hardware Root of Trust - Signed firmware updates - Secure default passwords - Configuration and firmware drift detection - Persistent event logging including user activity - Secure alerting - Automatic BIOS recovery - Rapid OS recovery - System eraseShould provide effective protection, reliable detection & rapid recovery using: - Silicon-based Hardware Root of Trust - Signed firmware updates - Secure default passwords - Configuration and firmware drift detection - Persistent event logging including user activity - Secure alerting - Automatic BIOS recovery - Rapid OS recovery - System erase
		Configuration upgrades should be only with cryptographically signed firmware and software
		Should provide system lockdown feature to prevent change (or “drift”) in system firmware image(s) & prevent malicious modification of server firmware
24	Intrusion alert	Intrusion alert in case chassis being opened
25	OEM Criteria	The OEM for the proposed server must have been one of the top two x86 server vendors (by market share revenue in IDC report) in any of the previous 2 quarters.The OEM for the proposed server must have been one of the top two x86 server vendors (by market share revenue in IDC report) in any of the previous 2 quarters.
26	Warranty	5 years onsite OEM comprehensive warranty with 24x7 resolution SLA
27	MAF	Manufacturer Authorization Required

Server 2

Sl. No	**Item**	**Specification**
1	Processor	Server should be populated with Intel Xeon Gold/AMD EPYC Processor
2	Processor frequency	Minimum 3.7 GHz Base frequency
3	Total no. of Cores Per Server	8
4	Processor Cache	128 MB or higher per processor
5	No. of Sockets	1 or 2
6	Memory slots	16 DDR4 DIMM slots, speed up to 3200 MT/s

7	Memory	64GB RAM (4x16GB) with 3200 Mhz memory speed (RDIMM, 3200 MT/s) or higher shall be populated
8	Memory Property	Should support Advanced ECC memory protection / Advanced Memory device correction.
9	RAID Controller	Integrated (or) Add-On RAID controller 12 Gbps PCIe 3.0 with RAID 1,5,6,10,50 with 6 GB NV cache or higher.
10	Disks Supported	Front drive bays: 2.5" Chassis with up to 8 Hot Plug Hard Drives
11	Hard Disks configured	5 x 2.4TB 10K RPM SAS ISE 12GBPS 2.5” Hot-plug. (Faulty Drive would not be returned).
12	Ethernet Ports	Server should have 2 x 10 GbE and 2 x 1 GbE Base- T Ports
13	FC Ports	Dual Port 16Gb Fibre Channel HBA, for storage connectivity
14	Redundant Power Supply	Server should have Platinum rated redundant power supply 500 W or higher.
15	Form Factor	Max. 1U rack mounted with sliding rails
16	Operating Systems Support (OS certified for)	Canonical Ubuntu Server LTS Citrix Hypervisor Microsoft Windows Server with Hyper-V Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXiCanonical Ubuntu Server LTS Citrix Hypervisor Microsoft Windows Server with Hyper-V Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXi
17	Pre-loaded OS	Win Server 2019 Std.
18	Client Access License	Win Server 2019 User CAL 5 Nos.
19	Management integration	Support for integration with Microsoft System Center, VMware vCenter
20	Power & temperature	Real-time power meter, graphing, thresholds, alerts & capping with historical power counters. Temperature monitoring & graphing
21	Pre-failure alert	Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for fan, power supply, memory, CPU, RAID, NIC, HDD
22	HTML5 support	HTML5 support for virtual console & virtual media without using Java or ActiveX plugins
23	Embedded Remote Management and firmware security	System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder. It should supportserver power capping and historical reporting and should have support for multifactor authentication
24	Configuration & management	Server should have dedicated 1Gbps remote management port.

	Management (continued)	• Real-time out-of-band hardware performance monitoring & alerting • Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, external storage management, monitoring of FC, HBA & system health • Out-of-band hardware & firmware inventory • Zero-touch auto configuration to auto deploy a baseline server configuration profile• Real-time out-of-band hardware performance monitoring & alerting • Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, external storage management, monitoring of FC, HBA & system health • Out-of-band hardware & firmware inventory • Zero-touch auto configuration to auto deploy a baseline server configuration profile
	Management (continued)	• Automated hardware configuration and Operating System deployment to multiple servers • Zero-touch repository manager and self-updating firmware system • Virtual IO management / stateless computing • Support for Redfish API for simple and secure management of scalable platform hardware.• Automated hardware configuration and Operating System deployment to multiple servers • Zero-touch repository manager and self-updating firmware system • Virtual IO management / stateless computing • Support for Redfish API for simple and secure management of scalable platform hardware.
25	Server security	Should have a cyber resilient architecture for a hardened server design for protection, detection & recovery from cyber attacks
	Server security	Should protect against firmware which executes before the OS boots

		Should provide effective protection, reliable detection & rapid recovery using: - Silicon-based Hardware Root of Trust - Signed firmware updates - Secure default passwords - Configuration and firmware drift detection - Persistent event logging including user activity - Secure alerting - Automatic BIOS recovery - Rapid OS recovery
	Server security	- System eraseShould provide effective protection, reliable detection & rapid recovery using: - Silicon-based Hardware Root of Trust - Signed firmware updates - Secure default passwords - Configuration and firmware drift detection - Persistent event logging including user activity - Secure alerting - Automatic BIOS recovery - Rapid OS recovery - System erase
	Server security	Configuration upgrades should be only with cryptographically signed firmware and software
	Server security	Should provide system lockdown feature to prevent change (or “drift”) in system firmware image(s) & prevent malicious modification of server firmware
26	Intrusion alert	Intrusion alert in case chassis being opened
27	OEM Criteria	The OEM for the proposed server must have been one of the top two x86 server vendors (by market share revenue in IDC report) in any of the previous 2 quarters.
28	Warranty	5 years onsite OEM comprehensive warranty with 24x7 resolution SLA
29	MAF	Manufacturer Authorization Required