



INDIAN STATISTICAL INSTITUTE

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Ref. No.: CSSC/24-25/003

Date: 8 July, 2024

Notice Inviting Expression of Interest

Indian Statistical Institute (ISI) is currently considering execution of “**Data Center Facility Upgradation (Phase-1)**” through procurement of a few servers, Layer-3 switch, and Network Security-Firewall Appliance to be installed at the Computer & Statistical Service Centre (CSSC) of its Kolkata campus. Companies/agencies having relevant experiences are requested to submit their proposed solution from industry-leading OEMs. The scope of work includes supply, installation, commissioning and testing of the servers, Layer-3 switch and, firewall appliance.

The detailed Technical Specifications of the required Servers, Layer-3 Switch and, Network Security-Firewall Appliance are as follows.

Type-1 Servers:

Processors should be compatible with Intel Xeon 3rd Gen or higher, featuring at least 32 cores and a base frequency of 2.1 GHz. Equivalent AMD processors are also acceptable. Each server should have at least 128 GB DDR5 RAM, 4 TB SSD and 8 TB SATA/SAS internal storages. The chipsets should be Intel Xeon 3rd Gen compatible, extendable up to 4 TB of DDR5 RAM, and capable of supporting up to 128 CPU cores. Additionally, they must include a redundant power supply, a dedicated management port, 2 x 10G network interface (excluding the management port), and adequate cooling fans. The servers should be rack-mountable (1U/2U) and compatible with RHEL/Ubuntu operating systems, KVM, and VMware. They should also have relevant certifications such as Common Criteria for Information Technology Security Evaluation (CC EAL), Federal Information Processing Standards (FIPS), and other applicable standards like ISO/IEC 27001, UL Certification, RoHS, etc.

Type-2 Server:

Processors of this server should be compatible with Intel Xeon 3rd Gen and higher, featuring at least 64 cores and a base frequency of 2.1 GHz. Equivalent AMD processors are also acceptable. Each server should have at least 256 GB DDR5 RAM, 8 TB SSD, and 16 TB SATA/SAS internal storages. The chipset should be Intel Xeon 3rd Gen compatible, extendable up to 4 TB of DDR5 RAM, and capable of supporting up to 128 CPU cores. Additionally, they must include a redundant power supply, a dedicated management port, 4 × 10G network cards (excluding the management port), and adequate cooling fans. The server should be rack-mountable (1U/2U) and compatible with RHEL/Ubuntu operating systems, KVM, and VMware. It should also have relevant certifications such as Common Criteria for Information Technology Security Evaluation (CC EAL), Federal Information Processing Standards (FIPS), and other applicable standards like ISO/IEC 27001, UL Certification, RoHS, etc.

Layer-3 Switch:

The switch should be equipped with at least 24 x 10G SFP+ ports, 24 x 10 GbE ports and 2 x 40G QSFP+ uplink ports. It should offer a switching capacity of at least 1.2 Tbps and a forwarding rate of at least 1 Bpps. It should provide robust Layer 2 and Layer 3 features, including VLANs, VDC or equivalent, advanced QoS, static routing, multicast routing, etc. It must have redundant power supplies for high availability, with support for MLAG or Virtual Chassis or equivalent. The switch should be 1U/2U rack-mountable. It should also have relevant certifications such as Common Criteria for Information Technology Security Evaluation (CC EAL), Federal Information Processing Standards (FIPS), and other applicable standards like UL Certification, RoHS, etc.

Network Security-Firewall Appliance:

The firewall should be optimized for small to medium-sized network, featuring robust security and high performance. It should offer at least 500 Mbps firewall throughput, 300 Mbps UTM throughput, along with capabilities like DPI-SSL throughput of 150 Mbps or higher. It should support at least 5,000 new connections per second, up to at least 75,000 concurrent connections (SPI) and 50,000 concurrent connections (DPI). The firewall should be equipped with at least 8 configurable 1GbE switch ports, 1 x console port. It should support Site-to-site VPN tunnels and SSL VPN license. Management and monitoring capabilities should include CLI, SSH, Web UI, etc. It should also have relevant certifications such as Common Criteria for Information Technology Security Evaluation (CC EAL), Federal Information Processing Standards (FIPS), and other applicable standards like CE, FCC, UL Certification, RoHS, WEEE, etc.

Interested companies/agencies are requested to send the supporting documentation with techno-commercial (budgetary) proposal of their proposed solutions, to headcssc@isical.ac.in, with a copy to csscoffice@isical.ac.in within 5:00 PM of 15 July, 2024.

Important Note: Participating OEM/agencies should adhere to the existing rules of Public Procurement (Preference to Make in India), of the GoI.



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