

CORRIGENDUM 1: MODIFICATION IN BILL OF MATERIAL IN THE E-TENDER (EXIM/RFP/2020-21/31).

Please refer to E-Tender Reference No. **EXIM/RFP/2020-21/31** for “E-Tender for Supply and Installation of Servers at Export-Import Bank of India”. Kindly refer updated Bill of Material enclosed at **Annexure-I**.

All other terms and conditions of the tender document will remain unchanged. The tender document is available on our website <https://www.eximbankindia.in>.

Sd/-
(Dharmendra Sachan)
General Manager



Annexure – I

BILL OF MATERIAL

1. Product # 1 – Octa Core Server [2 * quad core processor]

Required Minimum Technical Specification:

Chassis	1U Rack mount
Processor	Intel Xeon Gold 5222 with Total Cache (L1+L2+L3)(MB) -16 MB ,Processor Base Frequency (GHz) -3.8 GHz, Processor Turbo Frequency (GHz)-3.9 Ghz
Number of Cores per processor	4
Maximum number of Sockets available on Server	2
Maximum number of Sockets populated with Processors available on Server	2
Chipset compatible with CPU	C621 or Higher
Memory Configuration	The System has to be supplied with 128 GB(4 x 32 GB) DDR4 ECC or Higher
Total number of slots available for SAS drive	8 or Higher
Number of Slots populated with SAS Drive	6 * 1.2 TB SAS 10K RPM
RAID level Support	1,5,10, 6
No of RAID Controller Ports	8
Speed of RAID Controller Ports (Gbps)	12
RAID Controller Cache (GB)	4 GB or higher
Total Number of Ethernet Ports required in Server	2x10G RJ 45,2x1G
Operating System	WinSvr STD Core 2019 SNGL OLP 16 Lic NL Core Lic (9EM-00652)
Certifications/Compliance (OS)	Windows, Red Hat Linux, Suse Linux, Ubuntu
Certification/Compliance (Virtualization/Cloud Platform)	Hyper-V and VMWARE



Management Features-1	<p>Remoter power On/ Shutdown of server,, Remote Management of Server over LAN & WAN with SSL encryption through gigabit management port,, Should have virtual Media support with all required licenses., Remote KVM, Server Health Logging, Out of Band Management</p>
Management Features-2	<p>Management of multiple Servers from single console with single source of truth for multiple sites., Automated infrastructure management for patch upgrades, version upgrades etc. Simplified management with analytics driven actionable intelligence., System tagging giving admin flexibility to provide metadata tags to each System to enable users to filter and sort systems based on user-assigned attributes, Hardware Profile based deployment to multiple Servers simultaneously, Policy template for deployment of single policy to multiple Servers simultaneously, Platform inventory and health status, Server utilization statistics collection (including firmware updates and diagnostic tools), Should provide an alert in case the system is not part of OEM hardware compatibility test, Solution should be open and programmable providing Rest API, SDK for programming languages like Python , power shell scripts etc., Should have customizable dashboard to show overall faults/health/inventory for all managed infrastructure the solution should provide option to create unique dashboards for individual users. the user should be flexibility to select name for dashboards and widgets (viz. health, utilization etc) Single pane of glass for auto Provisioning across Multi-vendor & multi hypervisor platform, Self-service portal deployment for automated provisioning, Real-time out-of-</p>



	band hardware performance monitoring & alerting
Security Features-1	Secure Boot(Firmware and Bios Level Security),Provision to lock the system on breach, Hardware root of trust/Dual Root of Trust, Server should provide policy based security, Server should provide server intrusion detection,, " Malicious Code Free design" (to be certified by OEM)
Security Features-2	Provision for Cryptographic firmware updates, Capability to stop execution of Application/ Hypervisor/ Operating System on predefined security breach, Secure /Automatic BIOS recovery, Network Card secure firmware boot, In case of any security breach system should provide the lock down feature
support for high availability clustering and virtualization	Yes
Power Supply	Redundant Power supply with more than 90 efficiency (Systems with higher efficiency will be preferred) with accessories suitable to Indian power conditions



Hot Swappable (Redundant Power Supply)	Yes
Warranty	Server Warranty includes 3-Years Parts, 3-Years Labor, 3-Year Onsite support with next business day response.
Installation	The bidder should provide server engineer onsite support for following activities: 1. Server Mounting 2. Server Configuration and hardening as per Bank security policy 3. RAID Configurations. 4. Virtual Machine Server Configurations (If required)

2. Product # 2 – 16 Core Server [2 * Octa core processor]

Required Minimum Technical Specification:

Chassis	1U Rack mount
Processor	Intel Xeon Gold 5217 with Total Cache (L1+L2+L3)(MB) -11 MB ,Processor Base Frequency (GHz) -3.0 GHz, Processor Turbo Frequency (GHz)-3.7 Ghz
Number of Cores per processor	8
Maximum number of Sockets available on Server	2
Maximum number of Sockets populated with Processors available on Server	2
Chipset compatible with CPU	C621 or Higher
Memory Configuration	The System has to be supplied with 192 GB (6 x 32 GB) DDR4 ECC or Higher
Total number of slots available for SAS drive	8 or Higher
Number of Slots populated with SAS Drive	6*1.2 TB 10K RPM
RAID level Support	1,5,10, 6
No of RAID Controller Ports	8
Speed of RAID Controller Ports (Gbps)	12



RAID Controller Cache (GB)	6 GB or higher
Total Number of Ethernet Ports required in Server	2x10G RJ 45,2x1G
Operating System	WinSvr STD Core 2019 SNGL OLP 16 Lic NL Core Lic (9EM-00652)
Certifications/Compliance (OS)	Windows, Red Hat Linux, Suse Linux, Ubuntu
Certification/Compliance (Virtualization/Cloud Platform)	Hyper-V and VMWARE
Management Features-1	Remoter power On/ Shutdown of server,, Remote Management of Server over LAN & WAN with SSL encryption through gigabit management port,, Should have virtual Media support with all required licenses., Remote KVM, Server Health Logging, Out of Band Management
Management Features-2	Management of multiple Servers from single console with single source of truth for multiple sites., Automated infrastructure management for patch upgrades, version upgrades ,etc. Simplified management with analytics driven actionable intelligence., System tagging giving admin flexibility to provide metadata tags to each System to enable users to filter and sort systems based on user-assigned attributes, Hardware Profile based deployment to multiple Servers simultaneously, Policy template for deployment of single policy to multiple Servers simultaneously, Platform inventory and health status, Server utilization statistics collection (including firmware updates and diagnostic tools),Should provide an alert in case the system is not part of OEM hardware compatibility test, Solution should be open and programmable providing Rest API, SDK for programming languages like Python , power shell scripts etc., Should have customizable dashboard to show overall faults/health/inventory for all



	managed infrastructure the solution should provide option to create unique dashboards for individual users. the user should be flexibility to select name for dashboards and widgets (viz. health, utilization etc),Single pane of glass for auto Provisioning across Multi-vendor & multi hypervisor platform, Self-service portal deployment for automated provisioning, Real-time out-of-band hardware performance monitoring & alerting
Security Features-1	Secure Boot(Firmware and Bios Level Security),Provision to lock the system on breach, Hardware root of trust/Dual Root of Trust, Server should provide policy based security, Server should provide server intrusion detection,, " Malicious Code Free design" (to be certified by OEM)
Security Features-2	Provision for Cryptographic firmware updates, Capability to stop execution of Application/ Hypervisor/ Operating System on predefined security breach, Secure /Automatic BIOS recovery, Network Card secure firmware boot, In case of any security breach system should provide the lock down feature
support for high availability clustering and virtualization	Yes
Power Supply	Redundant Power supply with more than 90 efficiency (Systems with higher efficiency will be preferred) with accessories suitable to Indian power conditions
Hot Swappable (Redundant Power Supply)	Yes
Warranty	Server Warranty includes 3-Years Parts, 3-Years Labor, 3-Year Onsite support with next business day response.



Installation	<p>The bidder should provide server engineer onsite support for following activities:</p> <ol style="list-style-type: none">1. Server Mounting2. Server Configuration and hardening as per Bank security policy3. RAID Configurations.4. Virtual Machine Server Configurations (If required)
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