

### Bid Document

Bid Details	
Bid End Date/Time	20-07-2020 17:00:00
Bid Opening Date/Time	20-07-2020 17:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence
Organisation Name	Indian Army
Office Name	*****
Total Quantity	2
Item Category	Server
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No

### EMD Detail

Required	No
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### ePBG Detail

Required	No
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### Splitting

Bid splitting not applied.

### Server ( 2 pieces )

### Technical Specifications

\* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Processor	Processor Architecture	CISC(X86)	*
	Processor Make	Intel	Intel
	Number of Cores per Processor	6	6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 64, 11 Or higher
	Processor Base Frequency (GHz)	1.9	1.9, 2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4 Or higher
	Processor Turbo Frequency (GHz)	1.9	*
	Total Cache (L1+L2+L3)(MB)	8.25	8.25 - 256.0 Or higher
	Processor Description/ Number	Intel Xeon Bronze 3204	*
Chassis	Form Factor	Tower	*
	Size (RU)	4	*
Motherboard	Chipset compatible with CPU	Intel C621	*
	Expansion Slots Gen 3 (PCIe x1)	0	*
	Expansion Slots Gen 3 (PCIe x4)	0	*
	Expansion Slots Gen 3 (PCIe x8)	3	*
	Expansion Slots Gen 3 (PCIe x16)	2	*
	Maximum number of Sockets available on Server	1	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 Or higher
	Maximum number of Sockets populated with Processors available on Server	1	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 Or higher
Co Processor / GPU	Availability of Co Processor /GPU	No	Yes, No Or higher
	If Yes, Maximum Number of Slots available for Co-Processor/GPU	0	*
	If Yes, Maximum	0	*

	Number of slots populated with Co processor/GPU		
	If Yes, Co Processor /GPU Description	NA	*
Memory	<b>Type of RAM</b>	DDR4 SDRAM with ECC	DDR4 SDRAM with ECC
	Total Number of DIMM Slots available	6	*
	Number of DIMM Slots populated with DDR SDRAM	1	*
	Number of DIMM Slots populated with DDR NVRAM	0	*
	<b>DDR SDRAM Size(GB)</b>	32	32.0 - 6144.0 Or higher
	<b>DDR NVRAM Size (GB)</b>	0	0.0 - 1600.0 Or higher
	DDR SDRAM upgradable upto using spare DIMM Slots (GB)	160	*
	DDR NVRAM upgradable upto using spare DIMM Slots (GB)	0	*
SSD Storage	<b>Type of Interface for SSD</b>	NA	NA
	Type of SATA SSD	NA	*
	SATA SSD Hot Swappable	No	*
	Endurance for SATA SSD (DWPD - Drive Writes Per Day) (X)	0	*
	Total Number of Slots available for SATA SSD	0	*
	Number of Slot Populated with SATA SSD	0	*
	Capacity offered per SATA SSD (GB)	0	*
	<b>Total Capacity Offered with SATA SSD (GB)</b>	0	More than 0.0 Or higher
	Type of SAS SSD	NA	*
	SAS SSD Hot Swappable	NA	*
	Endurance for SAS SSD (DWPD - Drive Writes	0	*

	Per Day) (X)		
	Total Number of Slots available for SAS SSD	0	*
	Number of Slots populated with SAS SSD	0	*
	Capacity Offered per SAS SSD (GB)	0	*
	<b>Total Capacity Offered with SAS SSD (GB)</b>	0	More than 0.0 Or higher
	Type of NVMe SSD	NA	*
	NVMe SSD Hot Swappable	NA	*
	Endurance for NVMe SSD (DWPD - Drive Writes Per Day) (X)	0	*
	Total Number of Slots available for NVMe SSD	0	*
	Number of Slots populated with NVMe SSD	0	*
	Capacity Offered per NVMe SSD (GB)	0	*
	<b>Total Capacity Offered with NVMe SSD (GB)</b>	0	More than 0.0 Or higher
HDD Storage	<b>Type of Interface for Hard Disk Drive</b>	SATA	SATA
	Total number of Slots available for SATA Drive	4	*
	Number of Slots populated with SATA Drive	1	*
	Capacity offered per SATA Drive (GB)	2000	*
	SATA drive speed (hot plug or better) (RPM)	7200	*
	<b>Total Storage Capacity offered with SATA Drive (GB)</b>	2000	More than 2000.0 Or higher
	Total number of slots available for SAS drive	0	*
	Number of Slots populated with SAS Drive	0	*

	Capacity offered per SAS Drive (GB)	0	*
	SAS drive Speed (Hot plug or better) (RPM)	NA	*
	<b>Total Storage Capacity offered with SAS Drive (GB)</b>	0	More than 0.0 Or higher
	Total number of slots available for NL SAS drive	0	*
	Number of Slots populated with NL SAS Drive	0	*
	Capacity offered per NL SAS Drive	0	*
	NL SAS drive speed (hot plug or better) (RPM)	NA	*
	<b>Total Storage Capacity offered with NL SAS Drive (GB)</b>	0	More than 0.0 Or higher
RAID	RAID level	1	*
	<b>No of RAID Controller Ports</b>	8	8 Or higher
	<b>Speed of RAID Controller Ports (Gbps)</b>	12	12 Or higher
	RAID Controller Cache (GB)	0	*
Ports & Interfaces	Network Card Supported	1G	*
	<b>Number of Networking Interface Cards (LAN)</b>	1	2, 3, 4, 5, 6, 7, 8, 1 Or higher
	Whether Network Interface Card Embedded	Yes	*
	<b>Total Number of Ethernet Ports required in Server</b>	2x1G	2x1G
	Networking Interface Card Features	Asset Feature Tracking,Security Management,Each Adapter should support vNICs	*
	Server Network Ports should Support SR-IOV	No	*

Feature		
Server network ports should support DPDK and it should deliver zero packet loss as per RFC 2544 and deliver 100% line rate for all the packet sizes over 64 Bytes, Vendor to submit latest DPDK test report for the same	No	*
<b>Number of Single port FC HBA card</b>	0	0, 1, 2, 3, 4 Or higher
<b>Number of Dual port FC HBA card</b>	0	0, 1, 2, 3, 4 Or higher
<b>Number of Quad port FC HBA card</b>	0	0, 1, 2, 3, 4 Or higher
<b>FC HBA Speed (Gbps)</b>	NA	8, 16, 32, NA Or higher
vHBA Card Features Supported	No	*
<b>Number of Converged Network Adaptor (CNA)</b>	0	0, 1, 2, 3, 4 Or higher
<b>Number of Ports per CNA card</b>	NA	Dual Port, Quad Port, NA Or higher
<b>CNA Port Speed (Gbps)</b>	0	10, 25, 40, 50, 100, 200, 0 Or higher
<b>Length of LC-LC Cable per SFP+ Port (meter)</b>	0	5, 10, 15, 0 Or higher
<b>Length of LC-LC Cable per HBA Port (meter)</b>	0	5, 10, 15, 0 Or higher
<b>Length of LC-LC Cable per CNA Port (meter)</b>	0	5, 10, 15, 0 Or higher
Length of Twinax Breakout Cables per Port (meter)	0	*
Video Controller (support VGA or above resolution)	Yes	*
Keyboard Port	No	*
Mouse Port	No	*
DVD ROM (Internal/Exrternal)	No	*
USB Ports (version	5	*

	2point0/3point0)		
	Total number of Spare Bays Available for Future Upgradation (Internal)	2	*
	Total number of Spare Bays Available for Future Upgradation (Hot Pluggable)	2	*
Certifications	<b>Certifications/Compliance (OS)</b>	Windows,Red Hat Linux,Suse Linux,Ubuntu,Cent OS	Windows, Red Hat Linux, Suse Linux, Ubuntu, Cent OS
	Certification/Compliance (Virtualization/Cloud Platform)	VM ware,HyperV,Oracle Virtualization,Red Hat Virtualization	*
Features	<b>Management Features-1</b>	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	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	*

	<p>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),Real-time out-of-band hardware performance monitoring &amp; alerting</p>	
<b>Security Features-1</b>	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 server intrusion detection,, "Malicious Code Free design" (to be certified by OEM)	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 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	
	Server scalability to be achieved within the box & without adding nodes	Yes	*
	support for high availability clustering and virtualization	Yes	*
Generic	Redundant Power Supply	Yes	*
	Hot Swappable (Redundant Power Supply)	Yes	*
	<b>Power Supply Efficiency</b>	Platinum	Platinum, Titanium Or higher
	Redundant Fan	Yes	*
	Hot Swappable (Redundant Fan)	Yes	*
	Server Main Supply	230 +/- 10%Vac	*
Benchmark	<b>SPEC int_rate_base 2017 for the product (must be available on SPEC dot ORG before evaluation)</b>	0	More than 0.0 Or higher
	<b>SPEC fp_rate_2017 for the product (must be available on SPEC dot ORG before evaluation)</b>	0	More than 0.0 Or higher
	SPEC int_speed_base 2017 for the product (must be available on SPEC dot ORG before evaluation)	0	*
	SPEC fp_speed_2017 for the product (must be available on SPEC dot ORG before evaluation)	0	*

Miscellaneous	Maximum power consumption of the system (Watts)	800	*
	BIS Registration under CRS of MeitY	Yes	*
	BIS Registration Number Under CRS of MeitY and its validity	-	*
	Other Certifications Available	UL,FCC	*
	RoHS Compliance	Yes	*
	Availability of the type test report from Central Government / NABL / ILAC accredited laboratory covering verification of all features & functional parameters & environmental tests sequence	No	*
	a) Dry heat:test - for 16 hrs at 45 deg C as per IS: 9000/pt-3/sec-5/1977 b) Cold test - for 4 hrs at 0 deg C as per IS: 9000/pt-2/sec-4/1977 c) Damp Heat Cyclic Test - for 2 cycles of 24 hrs at 40 deg C & 95% RH as per IS: 9000/pt-5/sec-1/1981	NA	*
	The server has been checked for all the parameters before conditioning, After completion of the environmental tests sequence, with a recovery period of 1 to 2 hrs, the server found to be functional	NA	*
	Test Report Number & date	-	*
	Name & Address of Lab	-	*
Scope of Supply	Installation and Commissioning shall be included in the scope of supply	Yes	*
Warranty	<b>On Site OEM</b>	3	3, 4, 5, 7 Or higher

	<b>Warranty (Year)</b>	
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\* Specifications highlighted in bold are the Golden Parameters.

\* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement ( allowed Values) by the Buyer.

### **Additional Specification Documents**

### **Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****NEW DELHI	2	15

### **Bid Specific Additional Terms and Conditions**

1. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

[This Bid is also governed by the General Terms and Conditions](#)

**---Thank You---**