

### Bid Document

Bid Details	
Bid End Date/Time	28-07-2020 12:00:00
Bid Opening Date/Time	28-07-2020 12:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	15 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence
Organisation Name	Indian Navy
Office Name	*****
Total Quantity	1
Item Category	Server
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
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 ( 1 pieces )

### Technical Specifications

[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
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Processor	Processor Architecture	CISC(X86)	*
	<b>Processor Make</b>	Intel	Intel
	<b>Number of Cores per Processor</b>	16	16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 64 Or higher
	<b>Processor Base Frequency (GHz)</b>	2.3	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)	3.9	*
	<b>Total Cache (L1+L2+L3)(MB)</b>	22	22.0 - 256.0 Or higher
	Processor Description/ Number	Intel Xeon Gold 5218	*
Chassis	Form Factor	Rack	*
	Size (RU)	2	*
Motherboard	Chipset compatible with CPU	Intel C622	*
	Expansion Slots Gen 3 (PCIe x1)	0	*
	Expansion Slots Gen 3 (PCIe x4)	0	*
	Expansion Slots Gen 3 (PCIe x8)	2	*
	Expansion Slots Gen 3 (PCIe x16)	4	*
	<b>Maximum number of Sockets available on Server</b>	2	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 Or higher
	<b>Maximum number of Sockets populated with Processors available on Server</b>	2	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 Or higher
Co Processor / GPU	<b>Availability of Co Processor /GPU</b>	No	Yes, No Or higher
	If Yes, Maximum Number of Slots available for Co-Processor/GPU	0	*
	If Yes, Maximum Number of slots populated with Co processor/GPU	0	*
	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	16	*
	Number of DIMM Slots populated with DDR SDRAM	8	*
	Number of DIMM Slots populated with DDR NVRAM	0	*
	<b>DDR SDRAM Size(GB)</b>	256	256.0 - 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)	256	*
	DDR NVRAM upgradable upto using spare DIMM Slots (GB)	0	*
SSD Storage	<b>Type of Interface for SSD</b>	SATA	SATA, SAS
	Type of SATA SSD	Read Intensive	*
	SATA SSD Hot Swappable	Yes	*
	Endurance for SATA SSD (DWPD - Drive Writes Per Day) (X)	1	*
	Total Number of Slots available for SATA SSD	8	*
	Number of Slot Populated with SATA SSD	5	*
	Capacity offered per SATA SSD (GB)	480	*
	<b>Total Capacity Offered with SATA SSD (GB)</b>	2400	More than 2400.0 Or higher
	Type of SAS SSD	NA	*
	SAS SSD Hot Swappable	NA	*
	Endurance for SAS SSD (DWPD - Drive Writes Per Day) (X)	0	*
	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>	NA	NA
	Total number of Slots available for SATA Drive	0	*
	Number of Slots populated with SATA Drive	0	*

	Capacity offered per SATA Drive (GB)	0	*
	SATA drive speed (hot plug or better) (RPM)	NA	*
	<b>Total Storage Capacity offered with SATA Drive (GB)</b>	0	More than 0.0 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	*
RAID	<b>Total Storage Capacity offered with NL SAS Drive (GB)</b>	0	More than 0.0 Or higher
	RAID level	6	*
	<b>No of RAID Controller Ports</b>	8	8 Or higher
	<b>Speed of RAID Controller Ports (Gbps)</b>	12	12 Or higher
Ports & Interfaces	RAID Controller Cache (GB)	2	*
	Network Card Supported	1G,10G	*
	<b>Number of Networking Interface Cards (LAN)</b>	3	3, 4, 5, 6, 7, 8 Or higher
	Whether Network Interface Card Embedded	Yes	*
	<b>Total Number of Ethernet Ports required in Server</b>	2x10G RJ 45,4x1G	2x10G RJ 45, 4x1G
	Networking Interface Card Features	Asset Feature Tracking,Security Management,Remote Wake up	*
	Server Network Ports should Support SR-IOV Feature	No	*
	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	No	*

	packet sizes over 64 Bytes, Vendor to submit latest DPDK test report for the same		
	<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>	1	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>	16	16, 32 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)	Yes	*
	USB Ports (version 2point0/3point0)	4	*
	Total number of Spare Bays Available for Future Upgradation (Internal)	3	*
	Total number of Spare Bays Available for Future Upgradation (Hot Plugable)	0	*
Certifications	<b>Certifications/Compliance (OS)</b>	Windows,Red Hat Linux,Suse Linux,Ubuntu	Windows, Red Hat Linux, Suse Linux, Ubuntu
	Certification/Compliance (Virtualization/Cloud Platform)	HyperV,Red Hat Virtualization,OpenStack,Kubernetes,KVM	*
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	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,

		KVM,Server Health Logging,Out of Band Management	Server Health Logging, Out of Band Management
	Management Features-2	Platform inventory and health status	*
	<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 policy based security,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 policy based security, Server should provide server intrusion detection,, "Malicious Code Free design" (to be certified by OEM)
	Security Features-2	Network Card secure firmware boot	*
	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)	550	*
	BIS Registration under CRS of MeitY	Yes	*
	BIS Registration Number Under CRS of MeitY and its	-	*

	validity		
	Other Certifications Available	UL/EN/CE/IEC-60950 for Safety,E-Waste Regulation Compliance/Registration	*
	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 Warranty (Year)</b>	3	3, 4, 5, 7 Or higher

\* 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	*****	*****ERNAKULAM	1	15

#### Bid Specific Additional Terms and Conditions

- 1.Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one

within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

2. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
3. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.

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

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