

Bid Document

| Bid Details | |
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| Bid End Date/Time | 20-07-2020 15:00:00 |
| Bid Opening Date/Time | 20-07-2020 15:30:00 |
| 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 | 1 |
| Item Category | Server |
| Bidder Turnover (Last 3 Years) | 1 Lakh (s) |
| Experience Criteria | 3 Year (s) |
| MSE Exemption for Years Of Experience and Turnover | Yes |
| Startup Exemption for Years of Experience and Turnover | No |
| Document required from seller | Experience Criteria,Past Performance,Certificate (Requested in ATC),OEM Authorization Certificate *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 |
| Past Performance | 80 % |
| Bid to RA enabled | No |
| Inspection Required | No |

EMD Detail

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| Required | No |
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ePBG Detail

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| Required | No |
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Splitting

Bid splitting not applied.

1. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of years as indicated in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

2. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 80% of bid quantity, in at least one of the last three years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one year) to be submitted along with bid in support of quantity supplied in the relevant year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

Server (1 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 | 4 - 256 |
| | Processor Description/ Number | Intel Xeon Bronze 3204 | * |
| Chassis | Form Factor | Tower | * |
| | Size (RU) | 4 | * |
| Motherboard | Chipset compatible with CPU | Intel C621 | * |

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| | Expansion Slots Gen 3 (PCIe x1) | 0 | * |
| | Expansion Slots Gen 3 (PCIe x4) | 0 | * |
| | Expansion Slots Gen 3 (PCIe x8) | 0 | * |
| | Expansion Slots Gen 3 (PCIe x16) | 3 | * |
| | Maximum number of Sockets available on Server | 1 | * |
| | Maximum number of Sockets populated with Processors available on Server | 1 | * |
| 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 Number of slots populated with Co processor/GPU | 0 | * |
| | If Yes, Co Processor /GPU Description | NA | * |
| Memory | Type of RAM | DDR4 SDRAM with ECC | DDR4 SDRAM with ECC, DDR4 NVRAM (Persistent Memory) |
| | 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 | * |
| | DDR SDRAM Size(GB) | 16 | 0 - 6144 |
| | DDR NVRAM Size (GB) | 0 | 0 - 1600 |
| | DDR SDRAM upgradable upto using spare DIMM Slots (GB) | 192 | * |
| | DDR NVRAM upgradable upto using spare DIMM Slots (GB) | 0 | * |

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| SSD Storage | Type of Interface for SSD | NA | SATA, SAS, NVMe, M.2/mSATA, M.2/NVMe, NA |
| | Type of SATA SSD | NA | * |
| | SATA SSD Hot Swappable | NA | * |
| | 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 | * |
| | Total Capacity Offered with SATA SSD (GB) | 0 | Any applicable numeric value |
| | 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 | * |
| | Total Capacity Offered with SAS SSD (GB) | 0 | Any applicable numeric value |
| | 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 | * |

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|-------------|--|------|------------------------------|
| HDD Storage | Capacity Offered per NVMe SSD (GB) | 0 | * |
| | Total Capacity Offered with NVMe SSD (GB) | 0 | Any applicable numeric value |
| | Type of Interface for Hard Disk Drive | SATA | SATA, SAS, NL SAS, NA |
| | Total number of Slots available for SATA Drive | 8 | * |
| | Number of Slots populated with SATA Drive | 2 | * |
| | Capacity offered per SATA Drive (GB) | 1000 | * |
| | SATA drive speed (hot plug or better) (RPM) | 7200 | * |
| | Total Storage Capacity offered with SATA Drive (GB) | 2000 | Any applicable numeric value |
| | 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 | * |
| | Total Storage Capacity offered with SAS Drive (GB) | 0 | Any applicable numeric value |
| | 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 | * |
| | Total Storage Capacity offered with NL SAS Drive (GB) | 0 | Any applicable numeric value |

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| RAID | RAID level | 1 | * |
| | No of RAID Controller Ports | 8 | 2, 3, 4, 5, 6, 7, 8, 0 Or higher |
| | Speed of RAID Controller Ports (Gbps) | 12 | 6, 12 Or higher |
| | RAID Controller Cache (GB) | 0 | * |
| Ports & Interfaces | Network Card Supported | 1G,10G | * |
| | Number of Networking Interface Cards (LAN) | 1 | 2, 3, 4, 5, 6, 7, 8, 1 Or higher |
| | Whether Network Interface Card Embedded | Yes | * |
| | Total Number of Ethernet Ports required in Server | 2x1G | * |
| | Networking Interface Card Features | Asset Feature Tracking,Security Management,Remote Wake up,Each Adapter should support vNICs | * |
| | 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 packet sizes over 64 Bytes, Vendor to submit latest DPDK test report for the same | No | * |
| | Number of Single port FC HBA card | 0 | 0, 1, 2, 3, 4 Or higher |
| | Number of Dual port FC HBA card | 0 | 0, 1, 2, 3, 4 Or higher |
| | Number of Quad port FC HBA card | 0 | 0, 1, 2, 3, 4 Or higher |
| | FC HBA Speed (Gbps) | NA | 8, 16, 32, NA Or higher |
| | vHBA Card Features Supported | No | * |
| | Number of Converged Network | 0 | 0, 1, 2, 3, 4 Or higher |

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| | Adaptor (CNA) | | |
| | Number of Ports per CNA card | NA | Dual Port, Quad Port, NA Or higher |
| | CNA Port Speed (Gbps) | 0 | 10, 25, 40, 50, 100, 200, 0 Or higher |
| | Length of LC-LC Cable per SFP+ Port (meter) | 0 | 5, 10, 15, 0 Or higher |
| | Length of LC-LC Cable per HBA Port (meter) | 0 | 5, 10, 15, 0 Or higher |
| | Length of LC-LC Cable per CNA Port (meter) | 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) | 5 | * |
| | Total number of Spare Bays Available for Future Upgradation (Hot Plugable) | 0 | * |
| Certifications | Certifications/Compliance (OS) | 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,PowerVM,OpenStack,Kubernetes | * |
| Features | 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 | Remoter power On/Shutdown of server,, Remote Management of Server over LAN & WAN with SSL encryption through gigabit management port,, Should have |

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| | virtual Media support with all required licenses.,Remote KVM,Server Health Logging,Out of Band Management | 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 | * |

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| | <p>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 dshasboards 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</p> | |
| 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, | 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/Hyperviser/ 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 achived within the box | NA | * |

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| | & without adding nodes | | |
| | support for high availability clustering and virtualization | No | * |
| Generic | Redundant Power Supply | No | * |
| | Hot Swappable (Redundant Power Supply) | No | * |
| | Power Supply Efficiency | Platinum | Gold, Platinum, Titanium Or higher |
| | Redundant Fan | No | * |
| | Hot Swappable (Redundant Fan) | No | * |
| | Server Main Supply | 230 +/- 10%Vac | * |
| Benchmark | SPEC int_rate_base 2017 for the product (must be available on SPEC dot ORG before evaluation) | 20 | Any applicable numeric value |
| | SPEC fp_rate_2017 for the product (must be available on SPEC dot ORG before evaluation) | 27.2 | Any applicable numeric value |
| | SPEC int_speed_base 2017 for the product (must be available on SPEC dot ORG before evaluation) | 20 | * |
| | SPEC fp_speed_2017 for the product (must be available on SPEC dot ORG before evaluation) | 27.2 | * |
| Miscellaneous | Maximum power consumption of the system (Watts) | 500 | * |
| | 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 | No | * |

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|-----------------|--|-----|----------------------------|
| | Government / NABL / ILAC accredited laboratory covering verification of all features & functional parameters & environmental tests sequence | | |
| | 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 | On Site OEM Warranty (Year) | 3 | 1, 2, 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 | ***** | *****DARJILING | 1 | 90 |

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Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods
2. 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.
3. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
4. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
5. IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.

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

---Thank You---