

Bid Document

Bid Details	
Bid End Date/Time	18-07-2020 16:00:00
Bid Opening Date/Time	18-07-2020 16:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence Production
Organisation Name	Indian Ordnance Factories
Office Name	*****
Total Quantity	1
Item Category	Server
Experience Criteria	3 Year (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria,Past Performance *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

Required	No
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ePBG Detail

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	8.25 - 64.0 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	0	*

	(PCIe x4)		
	Expansion Slots Gen 3 (PCIe x8)	0	*
	Expansion Slots Gen 3 (PCIe x16)	3	*
	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 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
	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	16.0 - 6144.0 Or higher
	DDR NVRAM Size (GB)	0	0.0 - 1600.0 Or higher
	DDR SDRAM upgradable upto using spare DIMM Slots (GB)	192	*
	DDR NVRAM upgradable upto using spare DIMM Slots (GB)	0	*
SSD Storage	Type of Interface for SSD	NA	NA
	Type of SATA SSD	NA	*
	SATA SSD Hot	NA	*

Swappable		
Endurance for SATA SSD (DWPDP - 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	More than 0.0 Or higher
Type of SAS SSD	NA	*
SAS SSD Hot Swappable	NA	*
Endurance for SAS SSD (DWPDP - 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	More than 0.0 Or higher
Type of NVMe SSD	NA	*
NVMe SSD Hot Swappable	NA	*
Endurance for NVMe SSD (DWPDP - 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	*
Total Capacity Offered with NVMe SSD (GB)	0	More than 0.0 Or higher

HDD Storage	Type of Interface for Hard Disk Drive	SATA	SATA
	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	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	*
	Total Storage Capacity offered with SAS Drive (GB)	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	*
	Total Storage Capacity offered with NL SAS Drive (GB)	0	More than 0.0 Or higher
RAID	RAID level	1	*
	No of RAID Controller Ports	8	8 Or higher
	Speed of RAID Controller Ports (Gbps)	12	12 Or higher

Ports & Interfaces	RAID Controller Cache (GB)	0	*
	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	2x1G
	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 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 Adaptor (CNA)	0	0, 1, 2, 3, 4 Or higher
	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	0	5, 10, 15, 0 Or higher

	(meter)		
	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)	HyperV,Red Hat Virtualization,OpenStack,Kubernetes,KVM	*
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 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	Platfrom inventory and helath status	*

	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,
	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	No	*
	Hot Swappable (Redundant Power Supply)	No	*
	Power Supply Efficiency	Platinum	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	More than 20.0 Or higher
	SPEC fp_rate_2017 for the product (must be available on SPEC dot ORG before evaluation)	27.2	More than 27.2 Or higher
	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/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	Yes	*

	supply		
Warranty	On Site OEM Warranty (Year)	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	*****	*****TIRUVALLUR	1	30

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)
2. Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
3. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.
4. 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.
5. 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.
6. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
7. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.

8. SLBR52

9. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.
10. The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.
11. To be eligible for award of contract, Bidder / OEM must possess following Certificates / Test Reports on the date of bid opening (to be uploaded with bid): Authorised Dealership/OEM for supply.
12. Warranty period of the supplied products shall be 3 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid
13. For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:
 - a. Purchase Order copy along with Invoice(s) with self-certification by the bidder that supplies against the invoices have been executed.
 - b. Execution certificate by client with order value.
 - c. Any other document in support of order execution like Third Party Inspection release note, etc.
14. The Bidder / OEM {themselves or through reseller(s)}, should have executed project for supply and installation / commissioning of same or similar Category Products during preceding 3 financial years (i.e. current year and three previous financial years) as on opening of bid, as per following criteria:
 - (i) Single order of at least 35% of estimated bid value; or
 - (ii) Two orders of at least 20% each of estimated bid value; or
 - (iii) Three orders of at least 15% each of estimated bid value.Satisfactory Performance certificate issued by respective Buyer Organization for the above Orders should be uploaded with bid. In case of bunch bids, the Category related to primary product having highest bid value should meet this criterion

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

---Thank You---