

### Bid Document

Bid Details	
Bid End Date/Time	08-02-2021 09:00:00
Bid Opening Date/Time	08-02-2021 09:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	75 (Days)
Ministry/State Name	Ministry Of Human Resource Development
Department Name	Department Of Higher Education
Organisation Name	Indian Institute Of Science Education And Research (iisers)
Office Name	Pune 411008
Total Quantity	8
Item Category	Server
Bidder Turnover (Last 3 Years)	15 Lakh (s)
OEM Average Turnover (Last 3 Years)	120 Lakh (s)
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,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC) *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	40 %
Bid to RA enabled	No
Primary product category	Server
Time allowed for Technical Clarifications during technical evaluation	2 Days
Inspection Required	No
Estimated Bid Value	3000000
Evaluation Method	Total value wise evaluation

#### EMD Detail

Required	No
----------	----

#### ePBG Detail

Advisory Bank	State Bank of India
---------------	---------------------

ePBG Percentage(%)	3.00
Duration of ePBG required (Months).	36

(a). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

**Beneficiary:**

Director

Pune 411008, Department of Higher Education, Indian Institute of Science Education and Research (IISERs), Ministry of Human Resource Development  
(Director Indian Institute Of Science Education And Research, Pune)

**Splitting**

Bid splitting not applied.

**MII Purchase Preference**

MII Purchase Preference	Yes
-------------------------	-----

**MSE Purchase Preference**

MSE Purchase Preference	Yes
-------------------------	-----

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 Financial years as indicated above 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 Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
2. 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.
3. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.
4. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer)of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be

awarded for 25%(selected by Buyer) percentage of total QUANTITY.

5. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 40% of bid quantity, in at least one of the last three Financial 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 financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

**Server ( 6 pieces )**

(Minimum 20% Local content required for MII compliance)

**Technical Specifications**

\* As per GeM Category Specification

Specification	Specification Name	Bid Requirement (Allowed Values)
Chassis	Form Factor	Rack, Tower Or higher
	Size (RU)	2
Processor	Processor Architecture	CISC(X86), RISC, EPIC Or higher
	<b>Processor Make</b>	Intel
	<b>Number of Cores per Processor</b>	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 64, 11, 48 Or higher
	<b>Processor Base Frequency (GHz)</b>	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)	3.2 - 5.0 Or higher
	<b>Total Cache (L1+L2+L3)(MB)</b>	11.0 - 256.0 Or higher
	Processor Description/ Number	Intel Xeon Silver 4112, Intel Xeon Gold 5122, Intel Xeon Gold 6126, Intel Xeon Gold 6126F, Intel Xeon Gold 6126T, Intel Xeon Gold 6128, Intel Xeon Gold 6132, Intel Xeon Gold 6134, Intel Xeon Gold 6138, Intel Xeon Gold 6138F, Intel Xeon Gold 6138P, Intel Xeon Gold 6138T, Intel Xeon Gold 6140, Intel Xeon Gold 6142, Intel Xeon Gold 6142F, Intel Xeon Gold 6144, Intel Xeon Gold 6146, Intel Xeon Gold 6148, Intel Xeon Gold 6148F, Intel Xeon Gold 6150, Intel Xeon Gold 6154, Intel Xeon Platinum 8156, Intel Xeon Platinum 8158, Intel Xeon Platinum 8168, Intel Xeon Silver 4208, Intel Xeon Silver 4209T, Intel Xeon Silver 4210, Intel Xeon Silver 4214, Intel Xeon Silver 4214Y, Intel Xeon Silver 4215, Intel Xeon Silver 4216, Intel Xeon Gold 5215, Intel Xeon Gold 5215L, Intel Xeon Gold 5215M, Intel Xeon Gold 5217, Intel Xeon Gold 5218, Intel Xeon Gold 5218B, Intel Xeon Gold 5218N, Intel Xeon Gold 5218T, Intel Xeon Gold 5220, Intel Xeon Gold 5220S, Intel Xeon Gold 5220T, Intel Xeon Gold 5222, Intel Xeon Gold 6230, Intel Xeon Gold 6230N, Intel Xeon Gold 6230T, Intel Xeon Gold 6234, Intel Xeon Gold 6238, Intel Xeon Gold 6238L, Intel Xeon Gold 6240, Intel Xeon Gold 6240L, Intel Xeon Gold 6240M, Intel Xeon Gold 6240Y, Intel Xeon Gold 6242, Intel Xeon Gold 6244, Intel Xeon Gold 6246, Intel Xeon Gold 6248, Intel Xeon Gold 6252, Intel Xeon Gold 6252N, Intel Xeon Gold 6254, Intel Xeon Platinum 8256, Intel Xeon Platinum 8260, Intel Xeon Platinum 8260L, Intel Xeon Platinum 8260Y, Intel Xeon Platinum 8268, Intel Xeon Platinum 8270, Intel Xeon Platinum 8268M, Intel Xeon Platinum 8280, Intel Xeon Platinum 8280L, Intel Xeon Platinum 8280M, Intel Xeon Platinum 9242, Intel Xeon Platinum 9282, Intel Xeon Gold 6143, Intel Pentium G5420, Intel

		Core i3-9100, Intel Xeon E-2224, Intel Xeon E-2234, Intel Xeon E-2226G, Intel Xeon E-2244G, Intel Xeon E-2236, Intel Xeon E-2274G, Intel Xeon E-2276G, Intel Xeon E-2278G, Intel Xeon E-2286G, Intel Xeon Silver 4210T, Intel Xeon Silver 4215R, Intel Xeon Silver 4210R, Intel Xeon Silver 4214R, Intel Xeon Gold 6250, Intel Xeon Gold 6256, Intel Xeon Gold 5218R, Intel Xeon Gold 6226R, Intel Xeon Gold 6246R, Intel Xeon Gold 5220R, Intel Xeon Gold 6242R, Intel Xeon Gold 6230R, Intel Xeon Gold 6240R, Intel Xeon Gold 6238R, Intel Xeon Gold 6248R, Intel Xeon Gold 6258R, Intel Xeon Platinum 9221, Intel Xeon Platinum 9222 Or higher
Motherboard	Expansion Slots Gen 3 (PCIe x1)	0, 1, 2, 3, 4, 5, 6 Or higher
	Expansion Slots Gen 3 (PCIe x4)	0, 1, 2, 3, 4, 5 Or higher
	Expansion Slots Gen 3 (PCIe x8)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Or higher
	Expansion Slots Gen 3 (PCIe x16)	1
	<b>Maximum number of Sockets available on Server</b>	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>	1, 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>	Yes, No Or higher
	If Yes, Maximum Number of Slots available for Co-Processor/GPU	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 Or higher
	If Yes, Maximum Number of slots populated with Co processor/GPU	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 Or higher
	If Yes, Co Processor /GPU Description	NVIDIA Tesla P4 8GB, NVIDIA Tesla P40 24GB, NVIDIA Tesla V100 PCI-E 16GB, NVIDIA Tesla V100 SXM2 16GB, NVIDIA Tesla V100 PCI-E 32GB, NVIDIA Tesla V100 SXM2 32GB, NA, NVIDIA(R) Tesla(TM) T4 16GB, NVIDIA Tesla M10 Quad GPU Module, NVIDIA Quadro P6000 Graphics Accelerator, NVIDIA Quadro P4000 Graphics Accelerator, NVIDIA Tesla P40 24GB Computational Accelerator, NVIDIA Quadro RTX 6000 Graphics Accelerator, NVIDIA Tesla T4 16GB Computational Accelerator, NVIDIA Quadro RTX 4000 Graphics Accelerator, NVIDIA Quadro RTX 8000 Graphics Accelerator, NVIDIA Quadro P2200 Graphics Accelerator, NVIDIA Tesla V100S 32GB Computational Accelerator, NVIDIA Quadro RTX 5000 16GB Graphics Accelerator, NVIDIA Tesla A100 40GB PCIe based Accelerator, NVIDIA Tesla A100 40GB NVlink based Accelerator Or higher
Memory	<b>Type of RAM</b>	DDR4 SDRAM with ECC
	Total Number of DIMM Slots available	12
	Number of DIMM Slots populated with DDR SDRAM	4
	Number of DIMM Slots populated with DDR NVRAM	0
	<b>DDR SDRAM Size(GB)</b>	128.0 - 6144.0 Or higher
	<b>DDR NVRAM Size (GB)</b>	0.0 - 1600.0 Or higher
	DDR SDRAM upgradable upto using spare DIMM Slots (GB)	128.0 - 8192.0 Or higher
	DDR NVRAM upgradable upto using spare DIMM Slots (GB)	0.0 - 2400.0 Or higher

SSD Storage	<b>Type of Interface for SSD</b>	SATA
	Type of SATA SSD	Read Intensive
	SATA SSD Hot Swappable	Yes Or higher
	Endurance for SATA SSD (DWPD - Drive Writes Per Day) (X)	0.0 - 50.0 Or higher
	Total Number of Slots available for SATA SSD	2
	Number of Slot Populated with SATA SSD	2
	Capacity offered per SATA SSD (GB)	480
	<b>Total Capacity Offered with SATA SSD (GB)</b>	More than 960.0 Or higher
	Type of SAS SSD	NA
	SAS SSD Hot Swappable	Yes, No, NA Or higher
	Endurance for SAS SSD (DWPD - Drive Writes Per Day) (X)	0.0 - 50.0 Or higher
	Total Number of Slots available for SAS SSD	0
	Number of Slots populated with SAS SSD	0
	Capacity Offered per SAS SSD (GB)	More than 0.0 Or higher
	<b>Total Capacity Offered with SAS SSD (GB)</b>	More than 0.0 Or higher
	Type of NVMe SSD	NA
	NVMe SSD Hot Swappable	Yes, No, NA Or higher
	Endurance for NVMe SSD (DWPD - Drive Writes Per Day) (X)	0.0 - 50.0 Or higher
	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>	More than 0.0 Or higher	
HDD Storage	<b>Type of Interface for Hard Disk Drive</b>	SATA
	Total number of Slots available for SATA Drive	6
	Number of Slots populated with SATA Drive	6
	Capacity offered per SATA Drive (GB)	4000
	SATA drive speed (hot plug or better) (RPM)	7200
	<b>Total Storage Capacity offered with SATA Drive (GB)</b>	More than 24000.0 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>	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>	More than 0.0 Or higher
RAID	RAID level	1, 5, 6, 0
	<b>No of RAID Controller Ports</b>	8 Or higher
	<b>Speed of RAID Controller Ports (Gbps)</b>	12 Or higher
	RAID Controller Cache (GB)	2, 4, 6, 8 Or higher
Ports & Interfaces	Network Card Supported	1G
	<b>Number of Networking Interface Cards (LAN)</b>	2, 3, 4, 5, 6, 7, 8, 1 Or higher
	Whether Network Interface Card Embedded	Yes Or higher
	<b>Total Number of Ethernet Ports required in Server</b>	4x1G
	Networking Interface Card Features	Asset Feature Tracking, Security Management
	Server Network Ports should Support SR-IOV Feature	Yes, No Or higher
	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	Yes, No Or higher
	<b>Number of Single port FC HBA card</b>	0, 1, 2, 3, 4 Or higher
	<b>Number of Dual port FC HBA card</b>	0, 1, 2, 3, 4 Or higher
	<b>Number of Quad port FC HBA card</b>	0, 1, 2, 3, 4 Or higher
	<b>FC HBA Speed (Gbps)</b>	8, 16, 32, NA Or higher
	vHBA Card Features Supported	Yes, No Or higher
	<b>Number of Converged Network Adaptor (CNA)</b>	0, 1, 2, 3, 4 Or higher
	<b>Number of Ports per CNA card</b>	Dual Port, Quad Port, NA Or higher

	<b>CNA Port Speed (Gbps)</b>	10, 25, 40, 50, 100, 200, 0 Or higher
	<b>Length of LC-LC Cable per SFP+ Port (meter)</b>	5, 10, 15, 0 Or higher
	<b>Length of LC-LC Cable per HBA Port (meter)</b>	5, 10, 15, 0 Or higher
	<b>Length of LC-LC Cable per CNA Port (meter)</b>	5, 10, 15, 0 Or higher
	Length of Twinax Breakout Cables per Port (meter)	5, 10, 15, 0 Or higher
	Video Controller (support VGA or above resolution)	Yes Or higher
	Keyboard Port	Yes, No Or higher
	Mouse Port	Yes, No Or higher
	DVD ROM (Internal/Exrternal)	Yes, No Or higher
	USB Ports (version 2point0/3point0)	5, 6, 7, 8, 9, 10 Or higher
	Total number of Spare Bays Available for Future Upgradation (Internal)	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Or higher
	Total number of Spare Bays Available for Future Upgradation (Hot Plugable)	0.0 - 50.0 Or higher
Certifications	<b>Certifications/Compliance (OS)</b>	Windows, Red Hat Linux, Suse Linux
	Certification/Compliance (Virtualization/Cloud Platform)	VM ware, HyperV, 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
	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, Platfrom inventory and helath 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 complatibilty test, Solution should be open and programmable providing Rest API, SDK for programming lanugaes 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 dshasboards and widgets (viz. health, utilization etc), Real-time out-of-band hardware performance monitoring & alerting
	<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)
	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, NA Or higher
	support for high availability clustering and virtualization	Yes, No Or higher
Generic	Redundant Power Supply	Yes Or higher
	Hot Swappable (Redundant Power Supply)	Yes Or higher
	<b>Power Supply Efficiency</b>	Platinum, Titanium Or higher
	Redundant Fan	Yes Or higher
	Hot Swappable (Redundant Fan)	Yes Or higher
	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>	More than 82.8 Or higher
	<b>SPEC fp_rate_2017 for the product (must be available on SPEC dot ORG before evaluation)</b>	More than 47.4 Or higher
	SPEC int_speed_base 2017 for the product (must be available on SPEC dot ORG before evaluation)	More than 7.71 Or higher
	SPEC fp_speed_2017 for the product (must be available on SPEC dot ORG before evaluation)	More than 66.9 Or higher
Miscellaneous	BIS Registration under CRS of MeitY	Yes
	Availability of the type test report from Central Government / NABL / ILAC accredited laboratory covering verification of all features & functional parameters & environmental tests sequence	Yes, No Or higher
Warranty	<b>On Site OEM Warranty (Year)</b>	3, 4, 5, 7 Or higher

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	John Albert K	411008,Indian Institute of Science Education and Research, Pune (IISER) Dr.Homi Bhabha Road , Pashan, Pune Email: purchase@iiserpune.ac.in For Delivery Status: 020 2590 8169 For Payment Status: 020 2590	6	45



**Server ( 2 pieces )**

(Minimum 20% Local content required for MII compliance)

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

Specification	Specification Name	Bid Requirement (Allowed Values)
Chassis	Form Factor	Rack, Tower Or higher
	Size (RU)	2
Processor	Processor Architecture	CISC(X86), RISC, EPIC Or higher
	<b>Processor Make</b>	Intel
	<b>Number of Cores per Processor</b>	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 64, 11, 48 Or higher
	<b>Processor Base Frequency (GHz)</b>	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)	3.2 - 5.0 Or higher
	<b>Total Cache (L1+L2+L3)(MB)</b>	11.0 - 256.0 Or higher
	Processor Description/ Number	Intel Xeon Silver 4112, Intel Xeon Gold 5122, Intel Xeon Gold 6126, Intel Xeon Gold 6126F, Intel Xeon Gold 6126T, Intel Xeon Gold 6128, Intel Xeon Gold 6132, Intel Xeon Gold 6134, Intel Xeon Gold 6138, Intel Xeon Gold 6138F, Intel Xeon Gold 6138P, Intel Xeon Gold 6138T, Intel Xeon Gold 6140, Intel Xeon Gold 6142, Intel Xeon Gold 6142F, Intel Xeon Gold 6144, Intel Xeon Gold 6146, Intel Xeon Gold 6148, Intel Xeon Gold 6148F, Intel Xeon Gold 6150, Intel Xeon Gold 6154, Intel Xeon Platinum 8156, Intel Xeon Platinum 8158, Intel Xeon Platinum 8168, Intel Xeon Silver 4208, Intel Xeon Silver 4209T, Intel Xeon Silver 4210, Intel Xeon Silver 4214, Intel Xeon Silver 4214Y, Intel Xeon Silver 4215, Intel Xeon Silver 4216, Intel Xeon Gold 5215, Intel Xeon Gold 5215L, Intel Xeon Gold 5215M, Intel Xeon Gold 5217, Intel Xeon Gold 5218, Intel Xeon Gold 5218B, Intel Xeon Gold 5218N, Intel Xeon Gold 5218T, Intel Xeon Gold 5220, Intel Xeon Gold 5220S, Intel Xeon Gold 5220T, Intel Xeon Gold 5222, Intel Xeon Gold 6230, Intel Xeon Gold 6230N, Intel Xeon Gold 6230T, Intel Xeon Gold 6234, Intel Xeon Gold 6238, Intel Xeon Gold 6238L, Intel Xeon Gold 6240, Intel Xeon Gold 6240L, Intel Xeon Gold 6240M, Intel Xeon Gold 6240Y, Intel Xeon Gold 6242, Intel Xeon Gold 6244, Intel Xeon Gold 6246, Intel Xeon Gold 6248, Intel Xeon Gold 6252, Intel Xeon Gold 6252N, Intel Xeon Gold 6254, Intel Xeon Platinum 8256, Intel Xeon Platinum 8260, Intel Xeon Platinum 8260L, Intel Xeon Platinum 8260Y, Intel Xeon Platinum 8268, Intel Xeon Platinum 8270, Intel Xeon Platinum 8268M, Intel Xeon Platinum 8280, Intel Xeon Platinum 8280L, Intel Xeon Platinum 8280M, Intel Xeon Platinum 9242, Intel Xeon Platinum 9282, Intel Xeon Gold 6143, Intel Pentium G5420, Intel Core i3-9100, Intel Xeon E-2224, Intel Xeon E-2234, Intel Xeon E-2226G, Intel Xeon E-2244G, Intel Xeon E-2236, Intel Xeon E-2274G, Intel Xeon E-2276G, Intel Xeon E-2278G, Intel Xeon E-2286G, Intel Xeon Silver 4210T, Intel Xeon Silver 4215R, Intel Xeon Silver 4210R, Intel Xeon Silver 4214R, Intel Xeon Gold 6250, Intel Xeon Gold 6256, Intel Xeon Gold 5218R, Intel Xeon Gold 6226R, Intel Xeon Gold 6246R, Intel Xeon Gold 5220R, Intel Xeon Gold

		6242R, Intel Xeon Gold 6230R, Intel Xeon Gold 6240R, Intel Xeon Gold 6238R, Intel Xeon Gold 6248R, Intel Xeon Gold 6258R, Intel Xeon Platinum 9221, Intel Xeon Platinum 9222 Or higher
Motherboard	Expansion Slots Gen 3 (PCIe x1)	0, 1, 2, 3, 4, 5, 6 Or higher
	Expansion Slots Gen 3 (PCIe x4)	0, 1, 2, 3, 4, 5 Or higher
	Expansion Slots Gen 3 (PCIe x8)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Or higher
	Expansion Slots Gen 3 (PCIe x16)	1
	<b>Maximum number of Sockets available on Server</b>	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>	1, 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>	Yes, No Or higher
	If Yes, Maximum Number of Slots available for Co-Processor/GPU	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 Or higher
	If Yes, Maximum Number of slots populated with Co processor/GPU	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 Or higher
	If Yes, Co Processor /GPU Description	NVIDIA Tesla P4 8GB, NVIDIA Tesla P40 24GB, NVIDIA Tesla V100 PCI-E 16GB, NVIDIA Tesla V100 SXM2 16GB, NVIDIA Tesla V100 PCI-E 32GB, NVIDIA Tesla V100 SXM2 32GB, NA, NVIDIA(R) Tesla(TM) T4 16GB, NVIDIA Tesla M10 Quad GPU Module, NVIDIA Quadro P6000 Graphics Accelerator, NVIDIA Quadro P4000 Graphics Accelerator, NVIDIA Tesla P40 24GB Computational Accelerator, NVIDIA Quadro RTX 6000 Graphics Accelerator, NVIDIA Tesla T4 16GB Computational Accelerator, NVIDIA Quadro RTX 4000 Graphics Accelerator, NVIDIA Quadro RTX 8000 Graphics Accelerator, NVIDIA Quadro P2200 Graphics Accelerator, NVIDIA Tesla V100S 32GB Computational Accelerator, NVIDIA Quadro RTX 5000 16GB Graphics Accelerator, NVIDIA Tesla A100 40GB PCIe based Accelerator, NVIDIA Tesla A100 40GB NVlink based Accelerator Or higher
Memory	<b>Type of RAM</b>	DDR4 SDRAM with ECC
	Total Number of DIMM Slots available	12
	Number of DIMM Slots populated with DDR SDRAM	8
	Number of DIMM Slots populated with DDR NVRAM	0
	<b>DDR SDRAM Size(GB)</b>	256.0 - 6144.0 Or higher
	<b>DDR NVRAM Size (GB)</b>	0.0 - 1600.0 Or higher
	DDR SDRAM upgradable upto using spare DIMM Slots (GB)	128.0 - 8192.0 Or higher
	DDR NVRAM upgradable upto using spare DIMM Slots (GB)	0.0 - 2400.0 Or higher
SSD Storage	<b>Type of Interface for SSD</b>	SATA
	Type of SATA SSD	Read Intensive
	SATA SSD Hot Swappable	Yes Or higher
	Endurance for SATA SSD (DWPD - Drive Writes Per Day) (X)	0.0 - 50.0 Or higher
	Total Number of Slots available for	2

	SATA SSD	
	Number of Slot Populated with SATA SSD	2
	Capacity offered per SATA SSD (GB)	480
	<b>Total Capacity Offered with SATA SSD (GB)</b>	More than 960.0 Or higher
	Type of SAS SSD	NA
	SAS SSD Hot Swappable	Yes, No, NA Or higher
	Endurance for SAS SSD (DWPD - Drive Writes Per Day) (X)	0.0 - 50.0 Or higher
	Total Number of Slots available for SAS SSD	0
	Number of Slots populated with SAS SSD	0
	Capacity Offered per SAS SSD (GB)	More than 0.0 Or higher
	<b>Total Capacity Offered with SAS SSD (GB)</b>	More than 0.0 Or higher
	Type of NVMe SSD	NA
	NVMe SSD Hot Swappable	Yes, No, NA Or higher
	Endurance for NVMe SSD (DWPD - Drive Writes Per Day) (X)	0.0 - 50.0 Or higher
	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>	More than 0.0 Or higher
HDD Storage	<b>Type of Interface for Hard Disk Drive</b>	SATA
	Total number of Slots available for SATA Drive	6
	Number of Slots populated with SATA Drive	6
	Capacity offered per SATA Drive (GB)	4000
	SATA drive speed (hot plug or better) (RPM)	7200
	<b>Total Storage Capacity offered with SATA Drive (GB)</b>	More than 24000.0 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>	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>	More than 0.0 Or higher
RAID	RAID level	1, 5, 6, 0
	<b>No of RAID Controller Ports</b>	8 Or higher
	<b>Speed of RAID Controller Ports (Gbps)</b>	12 Or higher
	RAID Controller Cache (GB)	2, 4, 6, 8 Or higher
Ports & Interfaces	Network Card Supported	1G
	<b>Number of Networking Interface Cards (LAN)</b>	2, 3, 4, 5, 6, 7, 8, 1 Or higher
	Whether Network Interface Card Embedded	Yes Or higher
	<b>Total Number of Ethernet Ports required in Server</b>	4x1G
	Networking Interface Card Features	Asset Feature Tracking, Security Management
	Server Network Ports should Support SR-IOV Feature	Yes, No Or higher
	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	Yes, No Or higher
	<b>Number of Single port FC HBA card</b>	0, 1, 2, 3, 4 Or higher
	<b>Number of Dual port FC HBA card</b>	0, 1, 2, 3, 4 Or higher
	<b>Number of Quad port FC HBA card</b>	0, 1, 2, 3, 4 Or higher
	<b>FC HBA Speed (Gbps)</b>	8, 16, 32, NA Or higher
	vHBA Card Features Supported	Yes, No Or higher
	<b>Number of Converged Network Adaptor (CNA)</b>	0, 1, 2, 3, 4 Or higher
	<b>Number of Ports per CNA card</b>	Dual Port, Quad Port, NA Or higher
	<b>CNA Port Speed (Gbps)</b>	10, 25, 40, 50, 100, 200, 0 Or higher
	<b>Length of LC-LC Cable per SFP+ Port (meter)</b>	5, 10, 15, 0 Or higher
	<b>Length of LC-LC Cable per HBA Port (meter)</b>	5, 10, 15, 0 Or higher
	<b>Length of LC-LC Cable per CNA</b>	5, 10, 15, 0 Or higher

	<b>Port (meter)</b>	
	Length of Twinax Breakout Cables per Port (meter)	5, 10, 15, 0 Or higher
	Video Controller (support VGA or above resolution)	Yes Or higher
	Keyboard Port	Yes, No Or higher
	Mouse Port	Yes, No Or higher
	DVD ROM (Internal/Exrternal)	Yes, No Or higher
	USB Ports (version 2point0/3point0)	5, 6, 7, 8, 9, 10 Or higher
	Total number of Spare Bays Available for Future Upgradation (Internal)	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 Or higher
	Total number of Spare Bays Available for Future Upgradation (Hot Pluggable)	0.0 - 50.0 Or higher
Certifications	<b>Certifications/Compliance (OS)</b>	Windows, Red Hat Linux
	Certification/Compliance (Virtualization/Cloud Platform)	VM ware, HyperV, 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
	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, Platfrom inventory and helath 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 complatibility test, Solution should be open and programmable providing Rest API, SDK for programming lanugaes 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 dshasboards and widgets (viz. health, utilization etc), Real-time out-of-band hardware performance monitoring & alerting
	<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)
	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, NA Or higher
	support for high availability clustering and virtualization	Yes, No Or higher
Generic	Redundant Power Supply	Yes Or higher
	Hot Swappable (Redundant Power Supply)	Yes Or higher
	<b>Power Supply Efficiency</b>	Platinum, Titanium Or higher
	Redundant Fan	Yes Or higher
	Hot Swappable (Redundant Fan)	Yes Or higher
	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>	More than 82.8 Or higher
	<b>SPEC fp_rate_2017 for the product (must be available on SPEC dot ORG before evaluation)</b>	More than 47.4 Or higher
	SPEC int_speed_base 2017 for the product (must be available on SPEC dot ORG before evaluation)	More than 7.71 Or higher
	SPEC fp_speed_2017 for the product (must be available on SPEC dot ORG before evaluation)	More than 66.9 Or higher
Miscellaneous	BIS Registration under CRS of MeitY	Yes
	Availability of the type test report from Central Government / NABL / ILAC accredited laboratory covering verification of all features & functional parameters & environmental tests sequence	Yes, No Or higher
Warranty	<b>On Site OEM Warranty (Year)</b>	3, 4, 5, 7 Or higher

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	John Albert K	411008, Indian Institute of Science Education and Research, Pune (IISER) Dr.Homi Bhabha Road , Pashan, Pune Email: purchase@iiserpune.ac.in For Delivery Status: 020 2590 8169 For Payment Status: 020 2590 8180/8452	2	45

#### 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. 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. **Bidder financial standing:** The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.
4. 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.
5. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
6. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
7. **End User Certificate:** Wherever Bidders are insisting for End User Certificate from the Buyer, same shall be provided in Buyer's standard format only.
8. 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 3 years 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 primary product having highest value should meet this criterion.
9. IT equipment shall be IPv6 ready from day one.
10. ISO 9001: The bidder or the OEM of the offered products must have ISO 9001 certification.

11. Malicious Code Certificate:

The seller should upload following certificate in the bid:-

(a) This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to :-

- (i) Inhibit the desires and designed function of the equipment.
- (ii) Cause physical damage to the user or equipment during the exploitation.
- (iii) Tap information resident or transient in the equipment/network.

(b) The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.

12. OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.
13. Products supplied shall be nontoxic and harmless to health. In the case of toxic materials, Material Safety Data Sheet may be furnished along with the material.
14. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
15. Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of Director Indian Institute of Science Education and Research Pune payable at Pune. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.
16. The buyer organization is an institution eligible for concessional rates of GST as notified by the Government of India. The goods for which bids have been invited fall under classification of GST concession and the conditions for eligibility of concession are met by the institution. A certificate to this effect will be issued by Buyer to the Seller after award of the Contract. Sellers are requested to submit their bids after accounting for the Concessional rate of GST.  
Applicable Concessional rate of GST : 5%  
Notification No. and date : The rate of GST applicable to IISER Pune is 5% for the items procured for Research purpose as per Notification No. 45/2017-Central Tax (Rate) New Delhi, 14th November, 2017 and Notification No. 47/2017-Integrated Tax (Rate) New Delhi, 14th November, 2017 dated 14/11/2017
17. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 10 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

18. The successful bidder has to supply all essential accessories required for the successful installation and commissioning of the goods supplied. Besides standard accessories as per normal industry practice, following accessories must be part of supply and cost should be included in bid price: 8 Port KVM Switch (Quantity-02 Nos) Specifications-8xRJ45 KVM Ports, up to 1920 x 1200 Resolution support, Multi platform support (for windows, Mac, Linux), 1 LAN Management port for remote user with 8 cables for connection between KVM and Server, Minimum 18.5" Monitor with USB Mouse and Keyboard.

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

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

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