

### Bid Document

Bid Details	
<b>Bid End Date/Time</b>	17-09-2021 15:00:00
<b>Bid Opening Date/Time</b>	17-09-2021 15:30:00
<b>Bid Life Cycle (From Publish Date)</b>	90 (Days)
<b>Bid Offer Validity (From End Date)</b>	30 (Days)
<b>Ministry/State Name</b>	Ministry Of Science And Technology
<b>Department Name</b>	Department Of Science And Technology (dst)
<b>Organisation Name</b>	Indian Institute Of Astrophysics (iia)
<b>Office Name</b>	Bengaluru
<b>Total Quantity</b>	1
<b>Item Category</b>	Server
<b>MSE Exemption for Years of Experience and Turnover</b>	No
<b>Startup Exemption for Years of Experience and Turnover</b>	No
<b>Document required from seller</b>	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
<b>Bid to RA enabled</b>	No
<b>Time allowed for Technical Clarifications during technical evaluation</b>	3 Days
<b>Evaluation Method</b>	Total value wise evaluation

#### EMD Detail

Required	No
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#### ePBG Detail

Advisory Bank	Bank Of Baroda
ePBG Percentage(%)	5.00
Duration of ePBG required (Months).	38

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

**Beneficiary:**

Stores &amp; Purchase Officer

Bengaluru, Department of Science and Technology (DST), Indian Institute of Astrophysics (IIA), Ministry of Science and Technology

(Vishnu Vardhan Kp)

**Splitting**

Bid splitting not applied.

**MII Purchase Preference**

MII Purchase Preference	Yes
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**MSE Purchase Preference**

MSE Purchase Preference	Yes
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1. 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.

2. 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.

**Server ( 1 pieces )****(Minimum 50% Local content required for MII compliance)**

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

Specification	Specification Name	Bid Requirement (Allowed Values)
Chassis	Form Factor	Rack, Tower Or higher
	Size (RU)	1
Processor	Processor Architecture	CISC(X86), RISC, EPIC Or higher
	<b>Processor Make</b>	AMD
	<b>Number of Cores per Processor</b>	16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 64, 48 Or higher
	<b>Processor Base Frequency (GHz)</b>	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>	64.0 - 256.0 Or higher
	Processor Description/ Number	AMD EPYC 7301, AMD EPYC 7351P, AMD EPYC 7351, AMD EPYC 7371, AMD EPYC 7401P, AMD EPYC 7401, AMD EPYC 7451, AMD EPYC 7501, AMD EPYC 7551P, AMD EPYC 7551, AMD EPYC 7601, AMD EPYC 7282, AMD EPYC 7302, AMD EPYC 7352, AMD EPYC 7402, AMD EPYC 7452, AMD EPYC 7502, AMD EPYC 7542, AMD EPYC 7552, AMD EPYC 7642, AMD EPYC 7702, AMD EPYC 7742, AMD EPYC 7H12, AMD EPYC 7662, AMD EPYC 7532, AMD EPYC 7F72, AMD EPYC 7F52, AMD EPYC 7763, AMD EPYC 7713, AMD EPYC 7713P, AMD EPYC 7702P, AMD EPYC 7663, AMD EPYC 7643, AMD EPYC 75F3, AMD EPYC 7543, AMD EPYC 7543P, AMD EPYC 7513, AMD EPYC 7502P, AMD EPYC 7453, AMD EPYC 74F3, AMD EPYC 7443, AMD EPYC 7443P, AMD EPYC 7413, AMD EPYC 7402P, AMD EPYC 73F3, AMD EPYC 7343, AMD EPYC 7313, AMD EPYC 7313P, AMD EPYC 7302P, Intel Xeon Platinum 8362, Intel Xeon Platinum 8352M, Intel Xeon Gold 5318S, Intel Xeon Gold 5318Y, Intel Xeon Gold 6338T, Intel Xeon Gold 5318N, Intel Xeon Silver 4314, Intel Xeon Silver 4310T, 1S Intel Xeon Gold 6210U (27.5M Cache, 20C, 2.5GHz/3.2GHz) 150W, 1S Intel Xeon Gold 6209U (27.5M Cache, 20C, 2.1GHz/2.8GHz) 125W, Intel Xeon Gold 5315Y, Intel Xeon Gold 5317, Intel Xeon Gold 6326, Intel Xeon Silver 4309Y, 1S Intel Xeon Gold 6212U (35.75M Cache, 24C, 2.4GHz/3.1GHz) 165W, Intel Xeon Silver 4316, Intel Xeon Gold 6336Y, Intel Xeon Gold 6312U, Intel Xeon Gold 5320T 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)	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Or higher
	Expansion Slots Gen 3 (PCIe x16)	3
	<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

Specification	Specification Name	Bid Requirement (Allowed Values)
	<b>Maximum number of Sockets populated with Processors available on Server</b>	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	32
	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)	896.0 - 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>	NA
	Type of SATA SSD	NA
	SATA SSD Hot Swappable	Yes, No, NA Or higher
	Endurance for SATA SSD (DWPD - Drive Writes Per Day) (X)	0.0 - 50.0 Or higher

Specification	Specification Name	Bid Requirement (Allowed Values)	
	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>	More than 0.0 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>	SAS
		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	

Specification	Specification Name	Bid Requirement (Allowed Values)
	<b>Total Storage Capacity offered with SATA Drive (GB)</b>	More than 0.0 Or higher
	Total number of slots available for SAS drive	10
	Number of Slots populated with SAS Drive	2
	Capacity offered per SAS Drive (GB)	2400
	SAS drive Speed (Hot plug or better) (RPM)	10K
	<b>Total Storage Capacity offered with SAS Drive (GB)</b>	More than 4800.0 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
<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, 10G
	<b>Number of Networking Interface Cards (LAN)</b>	2, 3, 4, 5, 6, 7, 8 Or higher
	Whether Network Interface Card Embedded	Yes, No Or higher
	<b>Total Number of Ethernet Ports required in Server</b>	2x10G RJ 45, 2x1G
	Networking Interface Card Features	Asset Feature Tracking, Security Management, Remote Wake up
	Server Network Ports should Support SR-IOV Feature	Yes, No Or higher

Specification	Specification Name	Bid Requirement (Allowed Values)
	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)	3, 4, 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)	8.0 - 50.0 Or higher
Certifications	<b>Certifications/Compliance (OS)</b>	Windows, Red Hat Linux, Suse Linux, Ubuntu

Specification	Specification Name	Bid Requirement (Allowed Values)
	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., 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, 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), 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
	<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,
	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 achived within the box & without adding nodes	Yes Or higher
	support for high availability clustering and virtualization	Yes Or higher
	Generic	Redundant Power Supply
Hot Swappable (Redundant Power Supply)		Yes Or higher
<b>Power Supply Efficiency</b>		Platinum, Titanium, Bronze Or higher
Redundant Fan		Yes Or higher



Specification	Specification Name	Bid Requirement (Allowed Values)
	Hot Swappable (Redundant Fan)	Yes Or higher
Benchmark	<b>SPEC int_rate_base 2017 for the product (must be available on SPEC dot ORG before evaluation)</b>	More than 0.0 Or higher
	<b>SPEC fp_rate_2017 for the product (must be available on SPEC dot ORG before evaluation)</b>	More than 0.0 Or higher
	SPEC int_speed_base 2017 for the product (must be available on SPEC dot ORG before evaluation)	More than 0.0 Or higher
	SPEC fp_speed_2017 for the product (must be available on SPEC dot ORG before evaluation)	More than 0.0 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	Vishnu Vardhan KP	560034, Indian Institute of Astrophysics 2nd block, Koramangala, Bangalore contact For order / contract details :080 22541234 For Receipt and acceptance : 080 22541340 For Bill processing : 080 22541283 For details of disbursement of payment : 080 22541239	1	90

## Buyer Added Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
2. 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 : 47/2017 dated 14/11/2017

## Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specification and / or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents / clauses shall also be null and void. If any seller has any objection / grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[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---