

**TECHNICAL SPECIFICATIONS for Supply of Server to
NI-MSME, Hyderabad**

S.No.	Terms	Details
1	Organisation Chain	National Institute for Micro Small and Medium Enterprises
2	Work Item Details	Supply of server to ni-msme
3	Tender Reference Number	nimsme/servers/12
4	Tender ID	2020_NIMSM_552799_1
5	Tender Details can be accessed on	https://eprocure.gov.in/eprocure/app
6	Tender Start Date	17-Mar-2020 11:00 AM
7	Tender End Date	26-Mar-2020 05:00 PM



National Institute for Micro, Small and Medium Enterprises

(An organization of the Ministry of MSME, Govt. of India)

An ISO 9001:2015 Certified Organization)

Yousufguda, Hyderabad – 500 045.

TECHNICAL BID

FOR Server System at ni-msme, Hyderabad

SNO	Description	Specification	Complains Yes/No
1	Chassis		
	Form Factor	Rack	
	Size (RU)	2	
2	Processor		
	Processor Architecture	X86-2U 2socket	
	Processor Make	X86-2U 2socket AMD ROME Server.	
	Number of Cores per	24 Cores, 48Theard	
	Processor Base Frequency (GHz)	3.0	
	Processor Turbo Frequency (GHz)	3.9	
	Total Cache (L1+L2+L3) (MB)	128 MB (L3)	
	Processor Description/ Number	AMD EPYC™ 7352	
3	Motherboard		
	Chipset compatible with CPU	AMD EPYC™ 7352	
	Expansion Slots Gen 3 (PCIe x16)	3	
	Maximum number of Sockets available on Server	2	
	Maximum number of Sockets populated with Processors available on Server	2 Populated	
4	Memory		
	Type of RAM	DDR4-3200 ECC RDIMM	
	Total Number of DIMM Slots available	24	
	Number of DIMM Slots populated with DDR SDRAM	16	
	DDR SDRAM Size (GB)	1024 GB	
	DDR SDRAM upgradable up to using spare DIMM Slots (GB)	800	
5	SSD Storage		
	Type of Interface for SSD	SATA	
	Type of SATA SSD	Mixed Use	
	SATA SSD Hot Swappable	Yes	
	Endurance for SATA SSD (DWPD - Drive Writes Per Day) (X)	3	
	Total Number of Slots available for SATA SSD	8	
	Number of Slot Populated with SATA SSD	4	
	Capacity offered per SATA SSD (GB)	480	
	Total Capacity Offered with SATA SSD (GB)	1920	
6	RAID		
	RAID level	5	

	No of RAID Controller Ports	8	
	Speed of RAID Controller Ports (Gbps)	12 GBPS	
	RAID Controller Cache (GB)	2 GB	
7	Ports and Interfaces		
	Network Card Supported	10G,1G	
	Number of Networking Interface Cards (LAN)	2	
	Whether Network Interface Card Embedded	Yes	
	Number of Ports Per Network Interface Card	4x1G,4x10G with SFP+	
	Networking Interface Card Features	Asset Feature Tracking, Security Management, Remote Wake up, Each Adapter should support vNICs	
	Number of Dual port FC HBA card	1	
	FC HBA Speed (Gbps)	16	
	Video Controller (support VGA or above resolution)	Yes	
	DVD ROM (Internal/Exrternal)	Yes	
	USB Ports (version 2point0/3point0)	4	
	Total number of Spare Bays Available for Future Upgradation (Internal)	4	
	Total number of Spare Bays Available for Future Upgradation (Hot Plugable)	4	
8	Certifications		
	Certifications/Compliance (OS)	Windows, Red Hat Linux, Suse Linux, Ubuntu, Cent OS, Debian, AIX	
	Certification/Compliance(Virtualization/Cloud Platform)	VM ware, HyperV, Oracle Virtualization, Red Hat Virtualization, PowerVM, Open Stack, Kubernetes, Xen, KVM	
9	Features		
	Management Features-1	Remote Management of Server over LAN & WAN with SSL encryption through gigabit management port,	
	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 alter 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 Server simultaneously, Platform inventory and health status, Server utilization statistics collection (including armware 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 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 dashboards and widgets(viz. health, utilization etc),Single pane of glass for	

		auto Provisioning across Multivendor & multi hypervisor platform, Self-service portal deployment for automated provisioning, Real-time out-of-band hardware performance monitoring & alerting	
	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,	
	Security Features-2	Provision for Cryptographic armware updates, Capability to stop execution of Application/Hypervisor/ Operating System on predefined security breach, Secure/Automatic BIOS recovery, Network Card secure armware boot. In case of any security breach system should provide the lock down feature	
10	Generic		
	Server scalability to be achieved within the box & without adding nodes	Yes	
	support for high availability clustering and virtualization	Yes	
	Redundant Power Supply	Yes	
	Hot Swappable (Redundant Power Supply)	Yes	
	Power Supply Efficiency	1600W Redundant Power Supplies ,Titanium Level (96%+)	
	Redundant Fan	Yes	
	Hot Swappable (Redundant Fan)	Yes	
	Server Main Supply	230 +/- 10%Vac	
11	Benchmark		
	SPEC int_rate_base 2017 for the product (must be available on SPEC dot ORG before evaluation)	225	
	SPEC fp_rate_2017 for the product (must be available on SPEC dot ORG before evaluation)	215	
12	Miscellaneous		
	Maximum power consumption of the system (Watts)	750	
	BIS Registration under CRS of MeitY	Yes	
	BIS Registration Number Under CRS of MeitY and its validity	R-61000388	
	Other Certifications Available	UL,FCC	
	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	Yes	
	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	Yes	
	Test Report Number & date	Yes	
	Name & Address of Lab	Yes	
13	Scope of Supply		
	Installation and Commissioning shall be	Yes	

	included in the scope of supply		
14	Warranty		
	On Site OEM Warranty (Year)	5	

General Terms and Conditions:

1. Required documents GST/PAN/previous purchase orders
2. Company catalogue, NSIC, MSME Exemption certifications.
3. Supply of damaged material will not be accepted.
4. Authorized OEM / MAF certificate to be enclosed.
5. Quality of the material supplied to be maintained.

For any queries you may contact:

**J. Anjineyulu (Consultant faculty)
ni- msme yousufguda, Hyderabad
Mobile: +91 9014149026.**

Dr
Dibyendu
Choudhury

Digitally signed
by Dr Dibyendu
Choudhury
Date: 2020.03.16
18:00:52 +05'30'