भारतीय प्रौद्योगिकी संस्थान इंदौर

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NIT No.: IITI(MM)/CITC/1/1A/518/YS/2023-2024   **December 26, 2023**

PREBID REPORT

The meeting for Pre-bid discussion was held at **IIT-Indore on 13/12/2023 from 11.00 AM onwards** for GeM Custom bidding for **Supply & Installation of High Performance CPU Based Cluster**.

The report of the meeting is as mentioned below.

Sl. No.	Reference of the Clause/ Page No. of the Tender Document	Query raised	Pre-bid Attended by	Response from IITI
01.	**Specification for Head/Master Node**	Kindly requesting you to change for latest generation processor series as this will result in all bidders quoting for the latest generation of CPUs	Ms. RAMYA.K from **SS INFORMATION SYSTEM PVT. LTD.,** Chennai	Specification will remain same, Higher & better specification is acceptable.
02.		Kindly requesting you to change for DDR5 RAM which is the latest offering available . This will result in equivalent participation as all the bidder will be quoting for latest generation processors/RAM.		Specification will remain same, Higher & better specification is acceptable.
03.	**Specification for CPU Only Computing Node**	Kindly requesting you to change for latest generation processor series as this will result in all bidders quoting for the latest generation of CPUs		Specification will remain same, Higher & better specification is acceptable.
04.		Kindly requesting you to change for DDR5 RAM which is the latest offering available . This will result in equivalent participation as all the bidder will be quoting for latest generation processors/RAM.		Specification will remain same, Higher & better specification is acceptable.
05.	**PFS Based Storage 200TiB Usable Storage**	Kindly elaborate on the PFS architecture. Does this PFS implementation need a dedicated storage system with IO nodes for creation of PFS? Also kindly allow participation with 80 HDD on the storage as the required usable space can be achieved using much lesser drives		Bidder to provide details as per attached Annexure A

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06.	Software	Kindly elaborate if any preference would be given for OEM quoting cluster manager software from the same server OEM? This is in favour of a single OEM and request you to kindly remove this clause. Also as most of the components including the OS is open source , kindly allow to quote with open source cluster manager		Cluster Management Software with Monitoring Tools (From same or other OEM as the servers for seamless Operation), OEM MAF is required with 3 years support. Bidder to provide details as per attached Annexure B.
07.		What is the performance of PFS storage	Ms. Bhagyashree B. from Netweb Technologies India Limited, Faridabad	> 5GB/s
08.		Kindly provide the rack requirement		Bidder/ OEM need to provide 42U rack (1000mmx1200mm) with perforated doors, adjustable legs with PDUs as per the Quoted solution.
09.		As per technical specification Item no-6-Kindly remove this term it belongs or restrict to specific OEM's only for qualify. Make it as open to all OEM's with compatible clustering management software.	On GeM	This may read as: Cluster Management Software with Monitoring Tools (From same or other OEM as the servers for seamless Operation), OEM MAF is required with 3 years support mentioning on it.
10.	Page no. 4 point no 6 (Work experience)	Work Experience: The Vendor / Bidder should have work experience as per following parameters,		This may read as: The OEM / Bidder should have work experience as per following parameters
11.	Page no. 5 point no 10 (non-Blacklisted)	The Bidder should not have been blacklisted by any government/Semi Government / Board / Corporation / Autonomous Body / PSU. An undertaking/declaration in this regard should been enclosed.		This may read as: The Bidder/OEM should not have been blacklisted by any government/Semi Government / Board / Corporation / Autonomous Body / PSU. An undertaking/declaration in this regard should been enclosed.
12.	Page no. 11 point no 6 (Cluster management software)	Cluster Management Software with Monitoring Tools (Preferably from the same OEM as the servers for seamless Operation)		This may read as: Cluster Management Software with Monitoring Tools (From same or other OEM as the servers for seamless Operation), OEM MAF is required with 3 years support mentioning on it.
13.	Page no. 6 point no 2 (Eligibility Criteria)	Bidder/OEM should submit PO copies along with installation certificate of at least such similar installation (minimum 700CPU cores each) along with customer credential stating that the bidder is qualified to install scientific application. failure to submit installation certificate or customer credentials will lead to rejection of the bid summarily.		This may read as: Bidder/OEM should submit PO copies along with installation certificate of at least such similar installation (minimum 700CPU cores each)

| 14. | Page No. 7 Point No. 3 (Other mandatory condition) | Bidder should submit MAF from the all the OEMS of the HPC components (Server/Storage/Primary network switch/Server Rack) | | This may read as: Bidder should submit MAF from the all the OEMS of the HPC components (Server/Storage/Primary network switch) |

Annexure A		
Quantity		**1 Nos**
Sr. No.	**Specification**	**Description**
1	**File System**	Luster/ Gluster/ BeeGFS based File System
2	Usable Space	> 200 TiB
3	Throughput	> 5GB/s
IO Server		**02 Qty**
1	Processor	Dual CPU with each with minimum 16 Cores 2.9Ghz or better
2	Management	Dedicated Remote management port
3	Connectivity	Dual ports 200 Gbps
4	Operating System	64-bit- RHEL/CentOS/Ubuntu/Open-source Linux-based OS
5	Power Supply	Redundant and Hot Pluggable, 80 Plus Titanium certified or better power supply.
Storage Enclosures		
1	Enclosure/HDD Bays	Minimum populated HDDs specifications should be enterprise grade SAS 12Gbps 7200 RPM.
		Minimum HDDs populated should be 90 Nos keeping minimum 2 hot-spare on each enclosure.
		Enclosure should be Dual-Path for High Availability
2	Management	Dedicated Remote management port
3	Power Supply	Redundant and Hot Pluggable, 80 Plus Titanium certified or better power supply.

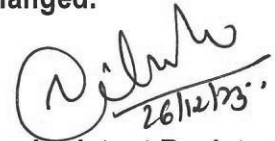| Annexure B		
SL. No.	**Description**	**Software to be supplied / Installed**
1	**Operating systems**	Each node shall be installed with OS. Complete software suit of Schedulers, Compilers: FORTRAN, C/C++, subnet manager and MPI software to be provided (OEM) and supported by the bidder. All software updates during the contract period to be provided free-of-cost
2	**Cluster Management**	**Cluster Management Software for all proposed master & compute nodes.**
		1. Should be compatible to work on the latest versions of RHEL/CentOS.

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	software suit	
		2. HPC Cluster Configuration software must have graphical/web-based UI access.
		3. Should support add/delete compute nodes from GUI window.
		4. The proposed Cluster Management Software should be fully supported by the bidder and OEM.
		5. HPC Cluster Management suite must have extensive cluster monitoring capability to drill down to a node-level performance parameters using intuitive GUI.
		6. HPC Cluster Management suite must permit only secure shell (ssh) based access and a robust parallel- execution shell (pdsh or equivalent) implementation.

The Revised Schedule of tender is below:-

Sr. No.	FOR	READ AS
1.	Last date & time of Submission of Online Bids (Technical & Price Bid): December 26, 2023 upto 03:00 PM (IST)	Last date & time of Submission of Online Bids (Technical & Price Bid): January 12, 2024 upto 03:00 PM (IST)
2.	Date and Time of Opening of Technical Bids Online: December 26, 2023 upto 03:30 PM (IST)	Date and Time of Opening of Technical Bids Online: January 12, 2024 upto 03:30 PM (IST)

All prospective/willing bidders are requested to take note of this report as part of the Tender document. All other terms and conditions of the tender remain unchanged.

26/12/23

Assistant Registrar (MMS)

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