



भारतीय प्रौद्योगिकी संस्थान इंदौर
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IIT Indore

NIT No.: IITI(MM)/PHY/1/1A/976/SP/2022-2023

March 11, 2023

PREBID REPORT

The meeting for Pre-bid discussion was held at IIT-Indore on 06/03/2023 from 11.00 AM onwards for GeM BOQ bidding for **Supply & Installation of Four Computing Nodes**.

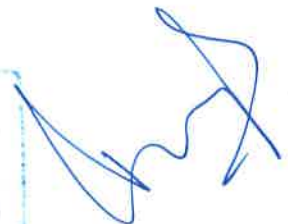
The report of the meeting is as mentioned below.

Sl. No.	Reference of the Clause/ Page No. of the Tender Document	Query raised	Pre-bid Attended by	Response from IITI
01.	Specification Document Technical Specification Bid (Page No. 8 of 16) Line Item - 1 :- Four Computing Nodes Processor : 2x Intel Xeon S-4214R (12C/24T, 2.4GHz, 16.5M, 100W) (Total 24 Cores Per Node)	The asked CPU is of Intel Xeon Cascade Lake series which is already 2 generations older CPU. As you have requested for 5 years warranty, hence we humbly request you to kindly change the description as follows. Processor : 2x Intel Xeon S-4310 (12C/24T, 2.1GHz, 18M, 120W) (Total 24 Cores Per Node)	Mr. Vishal Awale from Netweb Technologies India Ltd.	This is fine. Processor : 2x Intel Xeon S-4310 (12C/24T, 2.1GHz, 18M, 120W) (Total 24 Cores Per Node)

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(सागरी प्रबंधन विभाग)
Assistant Registrar
(Materials Management Section)

02.	<p>Specification Document Technical Specification Bid (Page No. 8 of 16) Line Item – 1 :- Four Computing Nodes Infiniband : 1x Infiniband IB-EDR (100Gbps) HBA + DAC Cable of 3m length Interconnect 1x Infiniband-EDR (200Gbps) HBA with Cable of suitable Length (3m)</p>	<p>The asked Infiniband Technology IB-EDR comes maximum with 100Gbps speed and not 200Gbps. Further, this technology of IB-EDR 100Gbps is already obsolete. Hence, we humbly request you to kindly change the description as follows as per your decision/preference. Interconnect : 1x Infiniband IBHDR 100Gbps OR IB-HDR 200Gbps HBA + DAC Cable of suitable length (2 metre)</p>	<p>We need the following IB switch, Infiniband 1x Infiniband IB-EDR (200 Gbps) HBA + DAC Cable of 3m length. IB Switch Mellanox MQM8790-HS2F (40-Ports HDR 200Gbps)</p>
03	<p>Specification Document Technical Specification Bid (Page No. 8 of 16) Line Item – 3 :- 48-U Internet lan port switch 1-48-10G RJ45 ports, Cable 3Mts., LC to LC patch cord</p>	<p>As per our understanding you have requirement of a switch with 48x 10G RJ45 Ports. Kindly confirm. In this case RJ45 Patch Cords will be applicable not LCLC Cable. As this switch will be used for internet connectivity so we request you to kindly change this to a switch with 48x 1G RJ 45 ports with the required patch cords.</p>	<p>This is fine. 1-48-1G RJ 45 ports, Cable 3Mts with the required patch cords</p>
04		<p>Processor: 2x Intel Xeon S-4214R (12C/24T, 2.4GHz, 16.5M, 100W) (Total 24 Cores Per Node)</p>	<p>Processor: 2x Intel Xeon S-4310R (12C/24T, 2.1 GHz, 16.5M, 100W) (Total 24 Cores Per Node)</p>
05		<p>Infiniband: 1x Infiniband IB-EDR (100 Gbps) HBA + DAC Cable of 3m length</p>	<p>Infiniband: 1x Infiniband IB-HDR (200 Gbps) HBA + DAC Cable of 3m length</p>
06		<p>Upgraded HDDs in Master Node: 3 x 10 TB SATA Ent.7200 RPM 3.5" (This needs to be added in the Master Node.)</p>	<p>Upgraded HDDs in Master Node: 2 x 18 TB SATA Ent.7200 RPM 3.5" (This needs to be added in the Master Node.)</p>
07		<p>1-48-10G RJ45 ports, Cable 3Mts., LC to LC patch chord</p>	<p>1-48-1G RJ 45 ports, Cable 3Mts with the required patch cords</p>

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These four computing nodes will be added in our computer cluster and Infiniband which needs to be installed in the running computer Cluster. The nodes installation is required and configured using free open-source software as a high-performance Linux cluster. The OS used is CentOS Enterprise Linux, with GNU Compilers and Maui Job Scheduler. Ganglia will be used for Cluster Management. The Company must need to install LAMMPS, Gaussian 16, TCP LINDA09, GAUSSIANXX, CRYSTAL23, CRYSTAL17, CRYSTAL14, VASP6.x, VASP7.x, RASPA, GAUSSVIEW, GROMACS, Quantum Espresso, GAMESS US, ADF, ChemCraft, and all the updated versions of all the software/codes whenever available with the indenter etc. in the HPC. We need full technical support to fix and install of our updated versions of all the codes in our HPC whenever available with free of cost. The academic license will be provided by the indenter to the engineer. The Slurm Workload Manager needs to be installed for all purposes.

These four computing nodes will be added in our computer cluster and Infiniband which needs to be installed in the running computer Cluster. The nodes installation is required and configured using free open-source software as a highperformance Linux cluster. The OS used is CentOS Enterprise Linux, with GNU Compilers and Maui Job Scheduler. Ganglia will be used for Cluster Management. The Company must need to install LAMMPS, Gaussian 16, TCP LINDA09, GAUSSIANXX, CRYSTAL23, CRYSTAL17, CRYSTAL14, CRYSTAL09, VASP6.x, VASP7.x, RASPA, GAUSSVIEW, GROMACS, Quantum Espresso, AMBER, GAMESS-US, ADF, ChemCraft, and all the updated versions of all the software/codes whenever available with the indenter etc. in the HPC. We need full technical support to fix and install of our updated versions of all the codes in our HPC whenever available with free of cost. The academic license will be provided by the indenter to the engineer. The Slurm Workload Manager needs to be installed for all purposes.

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.


Assistant Registrar (MMS)

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