राष्ट्रीय औषधीय शिक्षा तथा अनुसंधान संस्थान गुवाहाटी
NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCHGUWAHATI

(Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Govt. of India)
SilaKatamur (Halugurisuk), P.O.: Changsari, Dist: Kamrup, Assam, Pin: 781101.

NIPER GUWAHATI

No. NIPER-G/74/S&P/GAP-135/GPU+CPU/2021-22/ 662   Date: 24/12/2021

Ref. Tender No: NIPER-G/S&P/74/S&P/(RT)GPU+CPU/2021-22 dated 17.12.2021

Minutes of Pre-Bid Meeting held on 22.12.2021

Item Description: Supply and Installation of GPU+CPU Cluster

With reference to the tender enquiry No: NIPER-G/S&P/74/S&P/(RT)GPU+CPU/2021-22 dated 17.12.2021, NIPER-G has invited open tender enquiry for the procurement of Supply and Installation of GPU+CPU CLUSTER.

Amendment/corrigendum to the specifications for the GPU+CPU cluster are as follows:

Sl. No.	Item Description as per original tender document	Amendment/Corrigendum (if any)	Quantity (Nos) (revised if any)
1.	Master Node with the following configuration or higher	No change	1
2.	CPU: Intel Xeon Gold 5218R 20C 125W 2.1GHz Processor, 8 cores or higher	No change	2
3.	Chassis 2.5" with 8 Bays	No change	1
4.	RAM: 96GB or more ECC DDR 4, 2933MHz scalable up to 4TB, multi-bit error protection with fault tolerance	RAM: 96GB or more ECC DDR 4, 2667 MHz scalable up to 1TB, multi-bit error protection with fault tolerance, memory slot supported 24	1
5.	Chipset: Compatible with Intel processors	No change	1
6.	Operating system: opensource Linux (CentOS or Ubuntu).	No change	1
7.	Management port: 10Gb 2-port Base-T LOM	No change	1
8.	Hard disk storage: minimum 10 TB SAS disk or equivalent, with fault tolerance.	Hard disk storage: minimum 10 TB SAS NLSAS disk or equivalent, with fault tolerance RAID1.	2
9.	Toolless Slide Rail, basal rail	No change	1
10.	PCI slot: total 3 PCI with minimum of two 16 x full height full length.	No change	1

11.	Power supply: Redundant, hotswap energy efficient (minimum 90 %).	Power supply: Redundant, hotswap energy efficient (minimum 90 %) 750W.	1
12.	Necessary power cables, network (ethernet, LAN) cables and other accessories.	No change	1
13.	Fans: redundant and hotswap	No change	
14.	System Management: Advanced failure analysis support for CPU, HDD, power supply, fans, LED diagnostics, automatic restart and management port.	No change	1
15.	Accessories like monitor, keyboard, mouse.	No change	1
16.	Certification BIS certification	No change	1
17.	**Compute CPU Node with the following configuration or higher**	No change	1
18.	CPU: Intel Xeon Gold 5218R 20C 125W 2.1GHz Processor, 16 cores or higher with 32 threads or higher.	No change	2
19.	Chassis 2.5" with 8 Bays	No change	1
20.	Chipset: Compatible with Intel processors	No change	
21.	RAM: 256 GB or more ECC DDR 4, 2933MHz scalable up to 4TB, multi- bit error protection with fault tolerance	RAM: 256 GB or more ECC DDR 4, 2677MHz scalable up to 1TB, multi- bit error protection with fault tolerance	1
22.	RAID 730-8i PCIe 12Gb Adapter, 1GB cache memory.	RAID card with 2Gb cache memory.	1
23.	Hard disk storage: minimum 10 TB SAS disk or equivalent, with fault tolerance.	Hard disk storage: minimum 1 TB SAS disk or more, with fault tolerance.	2
24.	Management port: 10Gb 2-port Base-T LOM	Management port: 1 Gb 2-port Base-T LOM	1
25.	Operating system: opensource Linux (CentOS or Ubuntu).	No change	1
26.	Power supply: Redundant, hotswap energy efficient (minimum 90 %).	Power supply: Redundant, hotswap energy efficient (minimum 90 %) 750W	1
27.	Toolless Slide Rail kit v2	No change	1
28.	System Management: Advanced failure analysis support for CPU, HDD, power supply, fans, LED diagnostics, automatic restart and management port.	No change	1
29.	**GPU Node with the following configuration or higher**	No change	1

30.	CPU: Intel Xeon Gold 5218R 20C 125W 2.1GHz Processor, 16 cores or higher with 32 threads or higher	No change	1
31.	Chassis 2 U Rack Mountable with 8, 16 or 24 Bays.	No change	1
32.	NVIDIA A100 80GB card	NVIDIA A100 40GB card or higher	1
33.	Ethernet Adapter 10GBASE-T 2-port + 5720 1GbE 2-port OCP	Ethernet Adapter 1 GBASE-T 2-port + 5720 1GbE 2-port	1
34.	Management port: 10Gb 2-port Base-T LOM	Management port: 1 Gb 2-port Base-T LOM	1
35.	Power supply: Redundant, hotswap energy efficient (minimum 90 %).	Power supply: Redundant, hotswap energy efficient (minimum 90 %) 1100 W or higher	1
36.	Operating system: opensource Linux (CentOS or Ubuntu).	No change	1
37.	Hard disk storage: minimum 10 TB SAS disk or equivalent, with fault tolerance.	Hard disk storage: minimum 1 TB SAS disk or equivalent, with fault tolerance.	1
38.	Power supply: Redundant, hotswap energy efficient (minimum 90 %).	Repeated thus consider deleted.	1
39.	Necessary power cables, network cables and other accessories.	No change	1
40.	Fans: redundant and hotswap	No change	1
41.	System Management: Advanced failure analysis support for CPU, HDD, power supply, fans, LED diagnostics, automatic restart and management port.	No change	1
42.	Network switch: 16 port 10G Switch proposed to be L2 Manageable and appropriate length cable to be provided.	No change	Sufficient quantity
43.	42 U Rack, 19" adopter kit/loops, glass door/metal door	No change	1
44.	Warranty should be 3 years parts, 3 years labour, 3 years onsite Support.	No change	1
45.	Cluster Management Software: (Opensource)	No change	1
46.	RAM: 128GB or more ECC DDR 4, 2933MHz scalable up to 3TB, multi-bit error protection with fault tolerance memory slot supported 24	RAM: 128GB or more ECC DDR 4, 2667MHz scalable up to 1TB, multi-bit error protection with fault tolerance	1
47.	The OEM / partner should be in the HPC business for the last 5 years in India and should have	No change	Not applicable

	fully operational office from min 5-years. Please submit documentary evidence for the same. The Source of all items shall be either from our country or from the countries who have a good heritage on cybersecurity and amicable to our country. Bidder should be financially sound to execute the order i.e., Bidder should have annual turnover of average of Rs.10 Crore in last three Financial Year. OEM should have a registered office in India from last five years. Bidder should be an overall profitable organization from last three financial year. The institute reserves the right of accepting or rejecting any quotation without assigning any reason thereof. Quotation should contain Authorization Letter from OEM. Compute OEM should have minimum 5 entries in latest Top 500 susper computer list Top500.org. OEM should have physical presence in India with registered service & sales office in India since last 3 years Severs supplied should be with factory integrated. OEM should have net positive worth for last 2 years.		
48.	The final GPU + CPU cluster should be accompanied with all the necessary accessories and should be compatible and useful for running the latest version of Amber, Gromacs, Gaussian 16/09, GAMESS, OpenMM, Openeye software package, Schrodinger's package, KNIME, Machine learning and deep learning simulations.	No change	1

The other terms and conditions will remain unchanged as mentioned in the tender document.

Stores and Purchase Officer