Tender Document for the Purchase of Computer Workstation:

Enquiry No: IITK/CHE/2021-2022/UGLAB-COMPUTER-WORKSTATION

Bid Start Date: 13th Sept, 2021

Bid End Date: 22nd Sept, 2021

Sealed quotations are invited for computer worstations with the specifications mentioned below. Technical as well as commercial quotations must be sent separately in properly sealed envelopes to the address mentioned below before 5:00pm of the due date. Quotations received after that time or in nonsealed envelopes will not be considered. Terms and conditions as well as detailed specifications are given below. The financial quotation for computer workstation should be made on a per workstation basis. The actual number of computer workstations to be bought may vary depending on our requirement at that time. Please contact us in case of doubts/clarifications.

Contact Details:

Dr. Vishal Agarwal/Dr. Harshwardhan Katkar
Department of Chemical Engineering, IIT Kanpur
Email: vagarwal@iitk.ac.in, hkatkar@iitk.ac.in
Telephone No: +91-512-679-6895

Workstation Required: 8 Nos.

Technical Specifications

Sr. No	Item	Description of Requirement (Minimum Requirements)
1	Processor	**Dual** Intel Xeon 4210 2.2 GHz 10 Core 13.75 MB L3
2	Chipset	Intel C246 or higher
3	Memory	64GB DDR4 ECC Memory & speed should be 2933 MHz or better 4 DIMM slots, supporting up to 128GB ECC/non-ECC, DDR4 2666 MT/s
4	Drive Controllers	Integrated SATA controller with minimum 4 x 6Gbps ports & SATA Controller should support RAID 0,1. RAID 5 is supported by Software XOR.
5	HDD	M.2 512 GB TLC SSD, Provision for installing 3 SATA or SSD drives
6	Optical Drive	No ODD
7	Keyboard & Mouse	Not Required
8	Bays/Slots	2 x 3.5-inch Internal Bays & 2 x External Half-Height 5.25-inch bays 1x PCIe Gen3 x16 slot 1 x PCIe Gen3 x4 slot /x16 connector 1 x PCIe Gen3 x1 slot/x4 connector 1 x PCIe Gen3 x1 slot/x4 connector 2 x M.2 storage (PCIe Gen3 x4) 1 M.2 Wlan (PCIe Gen3 x1+ intel CNVI)

9	Operating System	Linux-ready. RedHat-based CentOS (cluster version) should be installed. All drivers required for proper integration of components should be supplied by the vendor. All latest drivers should be available to download from vendor's website. System should also support Windows.
10	Ports	Front: 2 X USB 3.0 with one option for charging data Port, 1 x Headphone/Microphone. 1 x USB3.1 Gen2 Type-C Charging & Data Port (Optional), Choice to provide 1 x SD Card Reader (Optional). Rear: 4 x USB 3.0 ports, 2 x USB 2.0 ports, 1 serial port (optional), RJ-45 (LoM), 1 x Option of Flex IO port (3rd DisplayPortTM/HDMI/VGA/2nd 1GbE LAN/ USB-C 3.1 Gen2 Charging Data Port/Thunderbolt™ 3.0-Thunderbolt™ 3.0 PCIe card) 1 x Audio Line-in, and 1 Audio Line-out.
11	Form Factor	Convertible Mini Tower with tool-less entry and maintenance. System should feature Active Acoustic Reduction, with low noise level.
12	Power Supply	1000W wide-ranging, active Power Factor Correction, 90% Efficiency
13	Warranty	3 years onsite parts and labour warranty for system
14	Vendor Status	The hardware vendor should be a reputed concern, having global presence in multiple countries. Vendor should have ISO certifications. **The OEM should be among the listed companies in "IDC Asia/Pacific Quarterly Personal Computing Device Tracker" in the "Top 3 Company Highlights" section for each of the consecutive three previous quarters.**
15	Delivery Period	Not more than 8 weeks from PO issue date
16	Tender Bid Cover Submission Details	2 separate sealed covers for Technical & Financial Bids
17	Dust Filter	OEM should provide serviceable dust filter for aviod workstation failures due to dust and it should be connected into the workstation
18	Certifications	Linux Certification, EPEAT India-Silver or Higher Registered
19	Additional Software	1. The hardware vendor should supply an automatic system performance tuning and monitoring software on Windows. 2. The tuning software should have modules for resource monitoring over a long period of time, and should be capable of showing GPU utilisation (GPU, Graphics memory and Codec activity) for both Graphics and GPU Compute cards. 3. A complete Offline Diagnostics and Asset Discovery software suite should be supplied along with the system. 4. Installation and integration of Intel compilers and standard open source compliers such as gcc, g++, gfortran, openMPI. 5. Slurm workload manager and DHCP, NAS server-clients

Terms and Conditions:

1. Please send complete technical detail of the product. Installation of hardware & software done by supplier. The suppliers, who have local stationed engineers, may be given preference.
2. Payments terms: As per IIT Kanpur Norms.
3. Warranty: 3 years on site service warranty (24x7).
4. The bidder should be either OEM or his authorized dealer/distributor having its registered office in Kanpur to provide sales, 24x7 support.
5. The Bidder should submit case specific Manufacturer's Authorization Format along with the bid for each of the products quoted. Bids not accompanied by valid OEM MAF shall be rejected.
6. The OEM should be among the listed companies in "IDC Asia/Pacific Quarterly Personal Computing Device Tracker" in the "Top 3 Company Highlights" section for each of the consecutive three previous quarters.
7. Equivalent (or better) hardware/software can be allowed at the discretion of IIT Kanpur. However, in such cases, the bidder must provide sufficient justification for the deviation from the specifications given here.
8. Terms and conditions should be clearly mentioned in the technical bid. The deviations should be clearly stated with proper justifications with the signature of the responsible person.
9. IIT Kanpur has the right to accept the whole or any part of the tender or portion of the quantity offered or reject it in full without assigning any reason.
10. Upon request, the bidder must provide contact details of incharges at atleast five laboratories in centrally funded technological institutes such as IITs, NITs where they have supplied an identical system. Bid may be disqualified if a positive feedback is not received from some/all of the provided contacts.
11. *Maximum educational discount should be offered and mentioned.*
12. Quotations should be valid for a minimum period of 3 months.