DEPARTMENT OF GEOLOGY
PATNA UNIVERSITY, PATNA - 800005

Dr. Urmi Dutta
Assistant Professor

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Ref. No GEOL|MAJOR|UD|05   **Date** 12·07·2025

Department of Geology, Patna University is planning to purchase the following Equipment under the major research project entitled "A theoretical and computational study of minerals forming in extremely reducing conditions on Earth and exploration of their possible stability in high-pressure terrestrial and extraterrestrial environments" sanctioned to Dr. Urmi Dutta, Department of Geology, PU with sanction letter no. 25WS(0009)/2023-24/EMR-II/ASPIRE dated 16/04/2024.

S NO.	EQUIPMENTS	SPECIFICATIONS	NO. OF UNIT REQUIRED
1.	Workstation	Single x86 architecture-based Processor with 20 Cores, 40 Threads, base clock of 2.6GHz, 37,5MB or higher natively. 64 GB Memory or more, must be installed from day one. Single Nvidia A1000 - 8 GB installed from day one. System must support up to Two Double width GPUs. Wireless Multimedia Keyboard and Optical Mouse. Windows 11 Pro, 64-bit and open-source Linux (dual boot). Accessary 1.5KVA UPS. 3 years onsite warranty by OEM / Bidder. Physical on-site warranty services including visits by technical experts of Bidder or OEM for maintenance and technical support whenever needed. (For detailed specification please see Annexure-1)	1

For the above equipment, we invite quotations from reputed firms by 22/07/2025 to supply this item within 30 days after issuing the purchase order.

Terms and conditions:

1. The price should be inclusive of GST.
2. Quotation validity should be 30 days.
3. Warranty of at least 3 years.
4. Payment 100% bill basis through Account Payee Cheque/ RTGS.
5. Installation will be done at the customer site.

The quotation should be sent to the address, "Dr. Urmi Dutta, Assistant Professor, Department of Geology, Patna University, Patna, Ashok Rajpath, Bihar-800005.

Best regards,

Urmi Dutta 12/07/2025

Dr. Urmi Dutta,
Assistant Professor, Department of Geology, Patna University
Principal Investigator (Mob no. 7980309843)

PRINCIPAL INVESTIGATOR
Department of Geology
Patna University

FORWARDED.

12/7/25

Head of the Department of Geology
Patna University, Patna-800005

Specification	Description
Processor(s)	Single x86 architecture-based Processor with 20 Cores, 40 Threads, base clock of 2.6GHz, 37,5MB or higher natively.
Chipset	Compatible Chipset
System Security	Root-of-Trust, which initiates during system boot process to establish trust level Gathering measurements about the running environment, OS, for trusted reporting. Security of the whole system is based on the protection and secrecy of the cryptographic system, especially against reading out or manipulation of the key material. Manual / Datasheet must be submitted for the utility with the technical bid.
Memory	64 GB Memory or more, must be installed from day one
Solid State Drives/HDD	1 x 2TB NVMe M.2 SSD
RAID Controller	Onboard SATA RAID controller that supports RAID 0, 1, 10 levels
Graphic Card	Single Nvidia A1000 - 8 GB installed from day one. System must support up to Two Double width GPUs.
Drive Bays	At least 4 x 3.5" internal HDD bays and 3 x 5.25" external peripheral bays
System utility with AI Frameworks Preloaded	System should be preloaded with Precompiled frameworks (CPU & GPU optimized MxNet, CuDNN, Caffe and Pytorch) to be supplied with the system, Data sheet of utility must be submitted with bid.
Exp. Slots	4 x PCIe 5.0 x 16 Expansion slots
Ethernet ports	2x 1G RJ45 Ethernet LAN ports using on board controller
Ports	Minimum 64USB 2.0/3.0 Ports
Peripherals	26.8 Inch or higher Full HD, IPS Panel (1920x1080) resolution Monitor. Must be from the same make as workstation OEM
	Wireless Multimedia Keyboard and Optical Mouse
Power supply	At least 1200W or higher 80 Plus Certified Single power supply, chassis should have provision to upgrade the power supply for make redundant in future.
Chassis	Tower Form Factor with Air Cooling Technology, provision should be mounting rail
Operating System	Windows 11 Pro, 64-bit and open-source Linux (dual boot).
OS	Windows or RHEL Certified system, certificate copy must be attached with bid.
Accessory	1.5KVA UPS
Regulatory Compliance	OEM must be ISO 14001 & 27001, Govt. of India E-Waste Regulation Registered, Certificate copy must be attached with Bid.
	Bidder must not be put on a holiday period or banned or debarred by any govt organization for >3 months during last 5 years.
BIS Registration	OEM must have Bureau of Indian Standards certification for Workstation product category. Certification copy must be attached with bid documents

MII Compliance	Make in India System offered must comply with DIPPs notification no. P-45021/2/2017-PP(BE-II) with revisions till date and compliance with P-45021/102/2019-BE-II-Part (1) (E-50310) Office Memorandum issued by GOI.
Warranty	3 years onsite warranty by OEM / Bidder. Physical on-site warranty services including visits by technical experts of Bidder or OEM for maintenance and technical support whenever needed.