



NO. AIIMS/RPR/T&E/2026/

Date 14/07/2026

**Sub: Inviting quotations for procurement of Workstation for AI work under research project for department of Trauma and Emergency, AIIMS Raipur.**

**QUOTATION NOTICE**

Sealed quotations are invited from intending registered Stockiest/Distributors/Traders having GST No./relevant documents for supply of **Workstation for AI work**, at Department of Trauma and Emergency, AIIMS Raipur. The quotation with copy of certificate of GST & other documents should be submitted to **Gate No. 1, Trauma office, Basement, Trauma Building, Department of Trauma and Emergency, AIIMS Raipur up to 21/07/2026 before 03:00 pm**. The quotations will be opened on the same day at 03:30 pm. Details of items are as under:

| S.n<br>क्र.सं. | Name of the Item<br>आइटम कानाम                                    | HSN<br>code<br>एच.एस.<br>एन. | Maximu<br>m Order<br>Qty.<br>मात्रा | UNIT<br>RATE IN<br>Rs.<br>इकाई दर रु<br>में | GST<br>जीएसटी | UNIT RATE<br>with GST<br>इकाई दर रु<br>सहित | Total<br>amount<br>in Rs.<br>कुल मूल्य |
|----------------|-------------------------------------------------------------------|------------------------------|-------------------------------------|---------------------------------------------|---------------|---------------------------------------------|----------------------------------------|
| 1.             | Workstation for AI work<br>(Specification As per<br>Annexure – A) |                              | 01<br>Nos.                          |                                             |               |                                             | ≤<br>5,00,000                          |

**Terms & Condition:**

1. Taxes, if any (Kindly mention in above table) should be clearly mentioned in the offer.
2. Document relating to registration of firm i.e. GST and relevant document should be submitted along with quotation.
3. Supply should be done within 10 days after Placement of PO.
4. Price should be FOR Destination basis (i.e. concerned department).
5. 100% Payment will be released after certification from concerned department.
6. **Quotation Name/No. and due date of opening must be mentioned on top of envelops.**

7. LD @ 0.5% of delayed supply per week or part of week for delay of supply of material subject to maximum up to 10% of delayed supply to be deducted.
8. AIIMS Raipur reserves the right to place order for full or part quantity to one or more firms. The AIIMS, Raipur reserves the right to increase/decrease the number of required quantity.
9. All other terms & condition as per GFR 2017.
10. Material to be delivered at Trauma and Emergency Department, AIIMS Raipur. AIIMS reserves the right to procure any specific item, model, or configuration conforming to the prescribed technical specifications at the quoted and accepted rates during the validity of the contract.
11. Validity of the quotation should be 90 days from the date of opening.
12. Firm to submit documentary evidence in support of their claim for GST at the time of submission of bills.



**Principal Investigator  
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## ANNEXURE – A

### **Specifications Workstation for AI Processor**

- Latest generation Intel Core Ultra 9 desktop processor or higher.
- Minimum 24 cores (e.g. 8 Performance Cores + 16 Efficient Cores), and 24 threads.
- Minimum turbo frequency  $\geq 5.5$  GHz.
- Supports DDR5 memory and PCIe Gen 5 x16 graphics support (minimum 6000 MT/s); multiple PCIe Gen4/Gen5 M.2 NVMe slots, TPM 2.0, UEFI BIOS, and future expandability.
- Desktop workstation processor based on the latest-generation x86-64 architecture.
- Minimum Smart Cache/L3 Cache: 36 MB.
- Integrated AI acceleration/NPU, if available.
- Virtualization support (Intel VT-x/VT-d or equivalent).
- 64-bit architecture with Windows 11 Professional (64 bit).
- Compatible with TensorFlow, PyTorch, CUDA-enabled GPU workflows, Docker, and virtualization environments.

### **Motherboard**

- Compatible motherboard based on equivalent to or higher than Intel Z890 chipset.
- Minimum 4  $\times$  DDR5 DIMM slots supporting up to 192 GB RAM.
- PCIe Gen 5 x16 graphics slot.
- Multiple- minimum 4  $\times$  M.2 NVMe PCIe Gen4/Gen5 slots or higher.
- Minimum 4  $\times$  SATA III ports.
- Integrated 2.5 Gigabit Ethernet.
- USB Type-C and USB 3.2 Gen2/Gen2x2 ports.
- TPM 2.0 support.
- UEFI BIOS with secure boot and future expandability.

### **Memory (RAM)**

- Expandable to at least 192 GB.
- Capacity: Minimum 64 GB DDR5 RAM (2  $\times$  32 GB).
- Memory Type: DDR5 SDRAM.
- Speed: Minimum 6000 MT/s (or higher).
- Configuration: Dual-channel memory architecture.
- Form Factor: 288-pin UDIMM compatible with the proposed workstation motherboard.
- Compatibility: Compatible with latest-generation workstation processors supporting DDR5 memory.
- Standards: JEDEC-compliant and/or equivalent performance profile supported by the motherboard.
- Error Checking: Non-ECC (or ECC if supported by the selected workstation platform).
- Warranty: Minimum 1 year/OEM standard warranty.
- Brand: Any reputed OEM/manufacture meeting the above specifications.

### **Graphics Processing Unit (GPU)**

- NVIDIA GeForce RTX 5080 or higher.
- Minimum 16 GB GDDR7 dedicated VRAM.
- CUDA, Tensor Core and Ray Tracing support.
- PCIe Gen5 compatible.
- Minimum 3 DisplayPort and 1 HDMI output.
- Suitable for AI, deep learning, CUDA acceleration, medical image processing and scientific computing.

### **Primary Storage**

- Sequential read speed  $\geq 7000$  MB/s.
- Sequential write speed  $\geq 5000$  MB/s.
- Capacity: Minimum 1 TB
- Interface: PCIe Gen4 x4 NVMe SSD (or higher)
- Form Factor: M.2 2280
- Sequential Read Speed: Minimum 7,000 MB/s

- Sequential Write Speed: Minimum 6,000 MB/s
- Endurance: Minimum 600 TBW or equivalent
- Features: S.M.A.R.T. support, TRIM support, NVMe 1.4 or later
- Warranty: Minimum 1 year
- Brand: Any reputed OEM/manufacture meeting the above specifications.

#### **Secondary Storage**

- 4 TB SATA III HDD.
- 7200 RPM.
- Enterprise/Desktop performance grade.

#### **Power Supply Unit**

- ATX 3.1/PCIe 5.0 compatible.
- Minimum 1000 W continuous output.
- 80 PLUS Gold efficiency certification or higher.
- Fully modular cabling preferred.
- Active Power Factor Correction (Active PFC).
- Protection against Over Voltage (OVP), Under Voltage (UVP), Over Current (OCP), Over Power (OPP), Short Circuit (SCP), and Over Temperature (OTP).
- Native support for latest-generation high-performance graphics cards (including PCIe 5.0/12V-2×6 or equivalent connector).
- Minimum 1-year OEM warranty.

#### **Cooling**

- Closed-loop All-in-One (AIO) liquid CPU cooler.
- Radiator size: Minimum 360 mm.
- PWM-controlled cooling fans.
- High-performance pump with low-noise operation.
- Compatible with the proposed processor socket.
- Suitable for processors with minimum 250 W thermal design power (TDP).
- Leak-resistant sealed design.
- Minimum 1-year OEM warranty.

#### **Cabinet**

- Mid-Tower or Full-Tower ATX cabinet.
- Compatible with ATX, Micro-ATX, and E-ATX motherboards.
- Support for 360 mm liquid radiator.
- Support for latest-generation high-end graphics cards (minimum 400 mm GPU clearance).
- High-airflow mesh front panel.
- Tempered glass or solid side panel.
- Minimum four pre-installed 120 mm or larger cooling fans.
- Adequate cable management.
- Multiple USB ports including USB Type-C (preferred).
- Dust filters on air intake locations.
- Tool-less drive installation preferred.

#### **Monitor**

- Screen size: Minimum 27 inches full HD LED Monitor (preferably 4K).
- Full UHD 4K ( $\geq 1920 \times 1080$ ) resolution or higher.
- IPS or VA panel.
- Refresh rate: Minimum 180 Hz.
- Response time: Maximum 5 ms.
- Anti-glare display.
- Brightness: Minimum 250 nits.

- Connectivity: HDMI and DisplayPort.
- Tilt-adjustable stand.
- VESA mount compatible.
- TÜV-certified low blue light and flicker-free technology.
- Minimum 3-year OEM warranty.
- Resolution: 1920 × 1080.
- Refresh rate  $\geq 180$  Hz.
- VA/IPS panel.
- HDMI and DisplayPort inputs.
- Anti-glare coating.
- Tilt adjustable stand.

#### **Keyboard & Mouse**

- Wireless USB Keyboard and optical Mouse Combo.
- Mechanical keyboard with tactile switches or equivalent high-durability key-switch technology suitable for professional and prolonged typing
- Key life: Minimum 50 million keystrokes or equivalent.
- Spill-resistant design, adjustable tilt legs, compatibility with Windows 11 professional, ergonomic design suitable for prolonged usage, multi-device connectivity (Bluetooth 5.0 or higher and/or 2.4 GHz wireless USB receiver), supporting connection with at least 3 devices.
- High-precision optical/laser sensor with adjustable DPI up to at least 8000 DPI

#### **Operating System**

- Genuine Windows 11 Pro 64-bit with recovery media or equivalent licensed operating system.

#### **Connectivity**

- Gigabit/2.5 Gigabit LAN.
- Wi-Fi 6E or better.
- Bluetooth 5.3 or higher.

#### **Warranty**

- Minimum 1 year comprehensive onsite warranty covering workstation and monitor.
- OEM authorized service support.

#### **Binaural audio output and monitoring device:**

- Over-ear, closed-back wireless audio output device.
- Minimum 42 mm high-fidelity dynamic transducers.
- Frequency response: at least 10 Hz–22 kHz.
- Total Harmonic Distortion (THD):  $\leq 0.03\%$ .
- Support for Hi-Resolution Audio certification.
- Bluetooth with support for: aptX Adaptive, aptX HD, AAC, SBC
- USB audio mode supporting up to 24-bit/96 kHz playback.
- ANC with transparency mode.
- Battery backup  $\geq 50$  hours with ANC enabled.
- User-configurable Parametric Equalizer with minimum 5 adjustable bands.
- Crossfeed audio processing feature for natural speaker-like listening.
- Dedicated low-latency USB Bluetooth audio transmitter/dongle included.
- Sound Pressure Level (SPL)  $\geq 110$  dB.
- Detachable audio cable and USB-C charging cable.
- Companion software/mobile application for advanced audio customization.
- Weight  $\leq 320$  g with carrying case included.
- Warranty  $\geq 2$  years.

**Portable Point-of-Care Clinical Data Acquisition and Electronic Data Capture (EDC) Device: (Qty: 1)**

- Latest-generation Android-based tablet from a reputed OEM/manufacturer.
- Display size: Minimum 10.9 inches with WUXGA (2304 × 1440) resolution or higher.
- High-quality LCD or AMOLED display with minimum 90 Hz refresh rate.
- Processor: Latest-generation processor with integrated AI acceleration/NPU support or equivalent.
- Memory (RAM): Minimum 08 GB.
- Internal Storage: Minimum 128 GB, expandable via microSD card (preferred).
- Operating System: Latest stable Android version with manufacturer-supported security updates.
- Connectivity:
  - Dual-band Wi-Fi (Wi-Fi 6/6E or higher)
  - Bluetooth 5.3 or higher
  - USB Type-C with data transfer and charging
- Front Camera: Minimum 12 MP ultra-wide or equivalent.
- Rear Camera: Minimum 13 MP autofocus or equivalent.
- Battery Capacity: Minimum 8000 mAh, supporting fast charging.
- Support for digital stylus/active pen input (preferred).
- Weight: Preferably ≤600 g for portability.
- Protective rugged military grade cover and tempered screen protection.
- OEM Warranty: Minimum 1 year.



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