



अखिल भारतीय आयुर्विज्ञान संस्थान, रायपुर (छत्तीसगढ़)
All India Institute of Medical Sciences, Raipur (Chhattisgarh)
Tatibandh, GE Road, Raipur-492 099 (CG)
storesofficer.hp@aiimsraipur.edu.in

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

Date 14/07/2026

Sub: Inviting quotations for procurement of Workstation for AI work under research project for Pediatric Emergency Medicine and 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 क्र.स	Name of the Item आइटम कानाम	HSN code एच.एस. एन.	Maximum Order Qty. मात्रा	UNIT RATE IN Rs. इकाई दर रु में	GST जीएसटी	UNIT RATE with GST इकाई दर कर सहित	Total amount in Rs. कुल मूल्य
1.	Workstation for AI work (Specification As per Annexure – A)		01 Nos.				≤ 4,40,000

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 envelopes.**
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
AIIMS, Raipur (C.G.)

डॉ. वरुण आनंद
Dr. Varun Anand
अतिरिक्त प्राध्यापक (आघात और आपातकालीन चिकित्सा विभाग)
Additional Professor (Department of Trauma & Emergency)
अखिल भारतीय आयुर्विज्ञान संस्थान, रायपुर (छ.ग.)
All India Institute of Medical Sciences, Raipur (C.G.)

ANNEXURE – A

Specifications Workstation for AI

Processor

- Latest generation Latest-generation 64-bit x86 (e.g. Intel Core Ultra 7 desktop processor or higher).
- Minimum 12 cores (e.g. 8 Performance Cores + 16 Efficient Cores), and 20 threads.
- Minimum turbo frequency ≥ 4.8 GHz.
- Supports DDR5 memory and PCIe Gen 5 x16 graphics support; multiple PCIe Gen4/Gen5 M.2 NVMe slots, TPM 2.0, and future expandability.
- Desktop workstation processor based on the latest-generation x86-64 architecture.
- Minimum Smart Cache/L3 Cache: 25 MB.
- Integrated AI acceleration/NPU, if available.
- 64-bit architecture with Windows 11 Professional (64 bit).
- Compatible with widely used AI/ML frameworks such as TensorFlow, PyTorch, JAX or equivalent, GPU-accelerated computing environments, containerization platforms (e.g., Docker or equivalent), and hardware virtualization technologies.

Motherboard

- Minimum 4 × DDR5 DIMM slots.
- PCIe Gen 5 x16 graphics slot.
- Multiple- minimum 2 × M.2 NVMe PCIe Gen4/Gen5 slots or higher.
- Integrated Gigabit Ethernet or higher.
- USB Type-C and USB 3.2 Gen2 ports.
- TPM 2.0 support.
- With secure boot and UEFI BIOS with future hardware expandability.

Memory (RAM)

- Expandable to at least 128 GB.
- Capacity: Minimum 32 GB DDR5 RAM (2 × 16 GB).
- Memory Type: DDR5 SD RAM (JEDEC-compliant DDR5 memory)
- Speed: Minimum 5600 MT/s (or higher).
- Configuration: Dual-channel memory architecture.
- Compatibility: Compatible with latest-generation workstation processors supporting DDR5 memory.
- Standards: JEDEC-compliant and/or equivalent performance profile supported by the motherboard.
- Error Checking capability.
- Warranty: Minimum 1 year/OEM standard warranty.
- Brand: Any reputed OEM/manufacture meeting the above specifications.

Graphics Processing Unit (GPU)

- Dedicated high-performance GPU suitable for Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Medical Image Processing and Scientific Computing.
- NVIDIA GeForce RTX 5080 or higher.
- Minimum 16 GB GDDR7 dedicated VRAM.
- 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.
- Support for GPU-accelerated computing platforms and major AI frameworks.

Primary Storage

- Sequential read speed ≥ 7000 MB/s.

- Sequential write speed ≥ 6000 MB/s.
- Capacity: Minimum 1 TB PCIe Gen4 x4 NVMe SSD.
- 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 850 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.
- Minimum 1-year OEM warranty.

Cooling

- Closed-loop All-in-One (AIO) liquid CPU cooler.
- Radiator size: Minimum 240 mm radiator (360 mm preferred).
- 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 (1920 × 1080) resolution or higher.
- IPS or VA panel.
- Refresh rate: Minimum 180 Hz.
- Response time: ≤ 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 1-year OEM warranty.
- HDMI and DisplayPort inputs.
- Anti-glare coating.

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): ≤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 ≥ 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) ≥110 dB.

- Detachable audio cable and USB-C charging cable.
- Companion software/mobile application for advanced audio customization.
- Weight ≤ 320 g with carrying case included.
- Warranty ≥ 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/manufacture.
- 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 cover and tempered screen protection.
- OEM Warranty: Minimum 1 year.

Varun
14.07.2026

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Additional Professor (Department of Trauma & Emergency)
अखिल भारतीय आयुर्विज्ञान संस्थान, रायपुर (छ.ग.)
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