



File No. AIIMS/NAG/RPC/T&E/2026-27/NIQ/87

Dt. 22 July 2026

NOTICE INVITING QUOTATIONS

The Executive Director, All India Institute of Medical Sciences, Nagpur invites quotations from the reputed supplier for various types of manikins for the dept. of Trauma & Emergency at AIIMS, Nagpur details are given below:

Sr. No.	Item Description	QTY.	Unit Cost (Excluding GST)	Total Cost (Excluding GST)	GST %	Total Cost with GST
1	Thoracostomy Manikin	02				
2	Cricothyroidotomy Manikin	02				
3	Intraosseous Cannulation Manikin	02				
Total -----						

Note:

- The technical specification of the item is attached as Annexure-I.
- A compiled statement of technical specification against the item needs to be submitted along with quotation.

TERMS OF CONDITIONS:

- 1) All quotations to be submitted in the name of **Executive Director, AIIMS Nagpur** only. Quotations not addressed to Executive Director, AIIMS, Nagpur will not be opened and rejected summarily.
- 2) HSN Code of the product needs to be mentioned.
- 3) Rates of articles should be quoted per unit item without including GST.
- 4) Taxes leviable should be quoted separately.
- 5) Delivery Period: - Within 30 days from the date of supply order.
- 6) Delivery should be FOR O/o Trauma & Emergency, AIIMS Nagpur.
- 7) The quoted price will be inclusive of the **LIST OF CONSUMABLES WITH PRICES**.
- 8) **Liquidated Damages charges:** - In the event of the Seller's failure supply, Liquidated Damages charges will be deducted to the sum of 0.5% of the contract price of the delayed/undelivered, stores/services mentioned above for every week of delay or part their of a week, subject to the maximum value of the Liquidated Damages being not higher than 10% of the value of delayed stores.
- 9) Payment will be released on inspection of the supplied material found satisfactory by the concerned department with regard to quality, quantity, etc. Broken articles will have to be replaced before payment.
- 10) Bank details such as Account Number, IFSC Code, etc. should be furnished so as to facilitate payment online, if any.
- 11) Interested parties should submit their quotations in a **sealed envelope in the admin block, super scribing "QUOTATION FOR SUPPLY OF 'Various types of manikins for the department of Trauma and Emergency 'at AIIMS, NAGPUR, WITH NUMBER OF NIQ"** on or before **31/07/2026** before **17.00hrs**, which will be opened on **01/08/2026** at **11.00 hrs**.
- 12) The right to accept/reject any quotation rests with the AIIMS Nagpur.


22.07.2026
Administrative Officer - I
AIIMS, Nagpur
विपिन कुमार/Vipin Kumar
प्रशासनिक अधिकारी/Administrative Officer
अ.पा.आ.स. नागपुर/AIIMS, Nagpur

ANNEXURE - I

Recommended specifications for various types of manikins

1. Technical Specifications for Thoracostomy Manikin

Must-have Skills Training:

- Should have chest tube insertion, including surgical incision, blunt dissection, pleural perforation and finger sweep
- Should have needle decompression of tension pneumothorax

Must have features:

Chest Tube Insertion:

- Representation of an adult male thorax
- Anatomically accurate chest tube insertion in the 5th intercostal space
- Realistic feel of all thoracic palpable landmarks. Bony and soft tissue landmarks: manubriosternal joint, clavicles, ribs, pectoralis major and latissimus dorsi etc.
- Three-layered tissue representing skin, fat tissue and muscle for "real feel" surgical incision
- Cavity for the introduction of optional liquids for the simulation of haemothorax or pleural effusion
- Bilateral chest drains and needle decompression pads
- Suitable for supine
- Suitable for sitting or leaning forward positions (optional)
- Skin is typically made of high-quality medical-grade silicone or elastomer to mimic human tissue.

Needle Decompression:

- Option to introduce air to create either right or left tension pneumothorax
- Needle decompression replacement tissue sets located in the 2nd intercostal space at the mid-clavicular line and 5th intercostal space
- Successful needle insertion will release air with the familiar "hiss" sound
- Tracheal deviation and jugular vein distension:
- Jugular vein distension can be observed on either the left or right side of the neck during tension pneumothorax
- Tracheal deviation can be palpated and clearly visible, moving away from the side that has tension pneumothorax
- Both features revert back to neutral upon successful needle decompression

Soumya Ghoshal
डॉ. सौम्य घोषाल / Dr. Soumya Ghoshal
MBBS, MS (General Surgery)
M.Ch. (Trauma Surgery), Critical Care
सहायक प्रोफेसर / Assistant Professor
ट्रॉमा एवं आपातकालीन विभाग / Dept. of Trauma and Emergency
एम्स नागपुर / AIMS Nagpur
Reg. No.: MMC 2022/09/8226

2. Technical Specifications for Cricothyroidotomy Manikin

- Must represent adult human neck anatomy with accurate proportions and palpable landmarks.
- The model is developed to support learning and practising the techniques required to perform needle or surgical cricothyrotomy procedures.
- The model should be suitable for performing or assisting with the implementation of surgical airways.
- Should have anatomically accurate landmarks to aid in site training and allow for fast action.
- Features include identifiable thyroid cartilage, cricoid cartilage, cricothyroid membrane, tracheal rings, and hyoid bone.
- Designed for use in the supine position with neck extension (hyperextended) to facilitate proper site identification
- The hyperextended neck should allow the user to determine the proper incision site.
- Allows for multiple surgical approaches, including vertical, horizontal, cruciate, "U" shape, and reverse "U" shape incisions
- The trachea in the simulator should be replaceable, as the airway passes completely through from top to bottom.
- Should allow checking the stylet and obturator placement once the incision has been made.
- The model should be complete with a chin and full-size neck, ties that can be used to hold the obturator in a secure position, and inflation of the simulated lung to verify correct placement.
- Skin is typically made of high-quality medical-grade silicone or elastomer to mimic human tissue.
- Replaceable Neck Skin: Usually allows for multiple incisions by rotating or sliding the material.
- Replaceable Tracheas: Includes both rigid and soft interchangeable tracheostomies to simulate different clinical scenarios.

Includes:

- The simulator with a base
- At least six replaceable neck skins
- At least six adult trachea inserts (four rigid, two soft)
- At least six child trachea inserts (four rigid, two soft)
- Two simulated lungs
- Instruction manual
- Hard carry case.

3. Technical Specifications for Intraosseous Cannulation Manikin

- An adult leg model designed for training in intraosseous access and bone marrow aspiration procedures used in emergency and clinical care.
- Must feature a distinct patella, tibial tuberosity, and medial malleolus to allow students to identify the correct insertion site through palpation
- Should allow training for intraosseous access and bone marrow aspiration procedures on the tibia
- The internal bone structure mimics the resistance of human cortical bone, providing a tactile "drop-off" or "give" once the needle enters the medullary cavity.
- Should allow observation of fluid flow after successful intraosseous access
- Should allow simulated blood to be filled into pre-intervention bone modules for realistic training
- Should include the tibia bone structure that can be punctured for intraosseous access practice
- Replaceable high-density polymer bone inserts (often 4-sided, allowing the bone to be rotated for multiple uses per insert).
- Should have a mounted base allowing easy positioning and stability during training procedures
- Should represent the realistic anatomical structure of the adult lower leg
- Should be made of a high-quality and durable material suitable for repeated training use
- Should have a realistic appearance to support effective clinical skills training
- Should include a replaceable tibia bone module and leg skin supplied with spare parts
- At least 5 x Replaceable bone inserts, 2x spare skin sleeves, and 1 x bottle of simulated blood concentrate.
- A blood reservoir bag, tubing with Luer lock connectors, and a syringe for priming

ANNEXURE - II

Recommended specifications and Table of Compliance for the manikins

The distributor is required to indicate compliance with each of the below- mentioned terms and conditions by marking yes or no in the respective column and are requested to provide Annexure - II on the company's letterhead.

Sr. No.	Parameters to be followed within	Compliance (Yes/No)	Proof Provided (Yes/No)
1.	Technical specifications as per Annexure-I		
2.	Suitability for research and procedural training.		
3.	Please mention that the bidder is Manufacturer /Distributor /Dealer / Trader/ Supplier. Authorization from manufacturer to be uploaded, if the bidder is Distributor /Dealer / Trader/Supplier in proper format.		
4.	<u>Essential Bidder Registration Documents:</u> The tender document must be accompanied by copy of PAN, Certificate of firm/company registration, GST Registration Certificate (*Provide proof)		
5.	<u>Manufacturer Authorization Form (MAF) & Country of Origin Declaration:</u> The bidder must submit a valid Manufacturer Authorization Form issued by the manufacturer authorizing the bidder to quote the product. A declaration regarding Country of Origin and compliance with Land Border guidelines as per Government of India procurement rules must also be enclosed.		
6.	<u>Product Catalogue / Technical Literature:</u> Detailed product catalogue, brochure, or technical literature of the quoted product clearly indicating specifications and features must be submitted.		
7.	<u>Manufacturer's Turnover Certificate (Last 3 Years):</u> Certificate showing the annual turnover of Rs. 25 Lacs of the manufacturer for the last three financial years, duly certified by a Chartered Accountant with separate UDIN number (if 2025-26 balance sheet isn't available then earlier 3 years may be furnished) (*Provide proof)		
8.	<u>Bidder's Turnover Details (Last 3 Years):</u> The bidder must submit details of their annual turnover of Rs. 12 Lacs for the last three financial years, duly certified by a Chartered Accountant with separate UDIN number (if 2025-26 balance sheet isn't available then earlier 3 years may be furnished) (*Provide proof)		
9.	<u>Past Purchase Orders / Supply Orders:</u> Copies of previous purchase orders or supply orders issued by Government institutions/organizations for similar items of at least 12 lacs in past years must be submitted as proof of performance and benchmarking. (*Provide proof)		
10.	<u>Manufacturing & Quality Certifications (ISO/CE/BIS):</u> Valid copies of applicable ISO / CE / BIS certifications of the manufacturer/product must be submitted. (*Provide proof)		
11.	<u>Manufacturing & Quality Management Certifications</u> - ISO 9001:2015 – Quality Management System (Mandatory for manufacturer). - CE Certification/ Declaration of conformity (if imported product or internationally supplied).		
12.	<u>Regulatory Compliance (India)</u> - Compliance with Drugs & Cosmetics Act, 1940 and Rules there under (including Medical Device Rules, 2017), if applicable. - Registration with CDSCO (Central Drugs Standard Control Organization), if applicable. - Valid Medical Device License, wherever applicable. (Note: If the manikin is classified as a training device and not notified as a medical device, vendor shall provide self-declaration stating the same.)		

Sr. No.	Parameters to be followed within	Compliance (Yes/No)	Proof Provided (Yes/No)
13.	<u>Product Safety & Material Standards</u> - Material shall be medical-grade / high-grade silicone (for trauma/bandaging manikin). - Material shall be hypoallergenic and non-toxic. - Compliance with: - RoHS Certification (Restriction of Hazardous Substances) - REACH Compliance (for material safety, if imported)		
14.	<u>Undertaking shall be submitted by the firm for non- blacklisting</u> A declaration by vendor is required to be submitted along with quotation stating that vendor is not debarred by Department of Commerce or Ministry/ Department concerned. The date of declaration should not be before the date of NIQ and after the last date of submitted of quotation.		
15.	<u>Copy of NIQ duly signed and stamped by the vendor to be submitted along with quotation by accepting all the terms and conditions of NIQ.</u>		
16.	The product required CE Certification/ Declaration of conformity (if imported product or internationally supplied) (*Provide proof)		

Terms & Conditions	
1.	Delivery: The successful bidder shall supply the ordered items within the delivery period specified in the Supply/Purchase Order. In case of failure to supply within the stipulated time, the Institute reserves the right to cancel the order and procure the items from another eligible source at the risk and cost of the defaulting bidder, as per Institute norms.
2.	Dispute Resolution: Any dispute or difference arising out of this NIQ, supply, or Purchase Order shall be referred to the Director, AIIMS Nagpur, who may decide the matter or appoint an arbitrator under the Arbitration and Conciliation Act, 1996. The decision of the arbitrator shall be final and binding on both parties.
3.	Arbitration: The place and language of arbitration proceedings shall be decided by the arbitrator.
4.	Jurisdiction: All disputes shall be subject to the jurisdiction of courts at Nagpur only.
5.	Award of Contract: The Purchaser shall award the contract to the bidder whose quotation is found substantially responsive and offers the lowest evaluated price. However, the Purchaser reserves the right to place orders on more than one bidder for the same category of items, if considered reasonable.
6.	Right to Accept or Reject: The Purchaser reserves the right to accept or reject any quotation, wholly or partly, and to cancel the bidding process at any stage before award of contract without assigning any reason.
7.	Notification of Award: The successful bidder shall be notified of the award of contract before expiry of the bid validity period. The accepted terms shall form part of the Supply/Purchase Order.
8.	Quoted Rates: Rates shall be quoted per unit, exclusive of GST, and shall be inclusive of packing, forwarding, postage, transportation, loading/unloading, and all other incidental charges.
9.	Inspection and Rejection: The Institute reserves the right to inspect the supplied goods and reject any item not conforming to the required description, specifications, or quality standards.
10.	Applicable Rules: Procurement shall be governed by the General Financial Rules (GFR), Manual for Procurement of Goods, and other applicable Government of India procurement guidelines.
11.	Product Literature: The bidder shall submit a product brochure/catalogue clearly indicating the specifications and features of the quoted item, wherever applicable.
12.	Non-Compliance: Failure or delay in supply, or supply of items not conforming to the prescribed specifications/brand, shall be treated as breach of contract. In such cases, the Institute may procure the items from alternate sources and recover any additional expenditure from the defaulting bidder.
13.	Corrigendum: Bidders shall take into account all corrigenda/addenda issued on the NIQ before submission of their quotations.
14.	Quantity Variation: The quantity indicated in the NIQ is approximate and may increase or decrease as per the requirement of the Institute at the time of placing the order.
15.	Delivery Period: The items shall be supplied within 30 days from the date of issue of the Supply/Purchase Order.
16.	Payment: 100% payment shall be released after satisfactory delivery, inspection, and acceptance of the supplied items.
17.	No Extra Charges: No additional delivery charges or taxes beyond the quoted rates and applicable GST shall be payable.
18.	Delivery: The successful bidder shall supply the ordered items within the delivery period specified in the Supply/Purchase Order. In case of failure to supply within the stipulated time, the Institute reserves the right to cancel the order and procure the items from another eligible source at the risk and cost of the defaulting bidder, as per Institute norms.