

OFFICE OF THE DEAN & PRINCIPAL
VEER SURENDRA SAI INSTITUTE OF MEDICAL SCIENCES &
RESEARCH, BURLA, DIST: SAMBALPUR(ODISHA) PIN-768017
Email:vssmcburlaorissa@gmail.com/Website www.vimsar.ac.in

No 6298 /Indent/Dean/VIMSAR, Burla

Dated 10-7-2026

TENDER CALL NOTICE

Sealed Tenders are hereby invited in two-bid system (Technical & Financial) by the undersigned from reputed Manufacturers/Authorized Dealers/ and Registered firms under GST Act and Valid authorization certificate for FY 2026-27 must be enclosed with the Technical Bid for supply of 21 (Twenty One) mannequin items (technical specifications enclosed) required for the National Emergency Life support (NELS) Skill Centre, VIMSAR, Burla so as to reach the office of the Dean & Principal, Veer Surendra Sai Institute of Medical Sciences & Research (VIMSAR), Burla on or before dt. 10-08-2026 up to 5-30 P.M. through Regd. Post/ Speed Post only. The technical bid will be opened on 11.08.2026 at 11.30 A.M. in the Conference Hall, O/o Dean & Principal, VIMSAR, Burla. The Cost of tender paper will be Rs. 5,000/- which is non-refundable to be deposited in shape of DD in favour of Dean & Principal, VIMSAR, Burla and the Earnest Money deposit (EMD) of Rs. 80,000/- in shape of FDR/NSC/Bank Draft pledged to Dean & Principal, VIMSAR, Burla. The validity of rate contract shall be for one year from the date of approval. The outer envelope should be superscribed as "Tender for supply of mannequin items for NELS Skill Centre, VIMSAR, Burla". A bidder may quote the brand name and matching specifications for one item, any number of items, or all 21 mannequin items, as per their interest in participating in the bidding process. The tenderer or their authorized representative may attend the opening of the Technical Bid; however, their absence shall not prevent the committee from proceeding with evaluation. Any postal delay in receipt of tender paper shall be the sole responsibility of the tenderers.

The detail terms and conditions along with the list of items and their technical specifications can be downloaded from Dist. website <http://sambalpur.odisha.gov.in> & from the Institute website <http://vimsar.ac.in>

The undersigned/committee reserves the right to accept in full or part or reject any or all the tenders without assigning any reasons thereof.


10-7-2026

Dean & Principal,

VSS Institute of Medical Science & Research, Burla


TERMS AND CONDITIONS OF THE TENDER CALL NOTICE

1. Covers containing the tender documents should be duly sealed and superscribed as **"Tender for supply of Mannequin Items required for NELS Skill Centre, VIMSAR, Burla"**. The outer cover must contain both the Technical Bid and the Financial Bid, each placed in separate sealed covers inside.
2. **Item-wise Quotation Flexibility:** A bidder may quote the brand name with matching specifications for **one item, any number of items, or all 21 mannequin items** listed in the tender, as per their interest in participating. Evaluation will be made item-wise, and award of contract may be for one or more items depending on committee decision.
3. The cost of Tender paper is Rs.5000/-. The tender documents can be downloaded from Dist. website <http://sambalpur.odisha.gov.in> & from the Institute website www.vimsar.ac.in and the tender should be submitted with a demand draft of Rs.5000/- (Rupees Five thousand) only drawn in favour of Dean & Principal, VSS Institute of Medical Sciences & Research, Burla towards the cost of tender paper with their tender i.e. in the technical bid cover. The cost of tender paper is not refundable.
4. The rate of items should be quoted in Indian Rupees both in letter and words and be submitted in the Proforma of Financial bid only. The validity of the offer should be one year. The overwriting of the rates will lead to rejection of the bid document.
5. The installation of the items should be made in the earmarked places at own cost and risk of the firm. The demonstration along with training should be given on free of cost. The items having best specifications & performance will be chosen.
6. Any condition for supply & installation of the items through Bank or Payment through letter of credit or advance payment will not be entertained. Incomplete tenders as per the Financial bid/Technical bid or terms & conditions may lead to rejection of the bid document..
7. The approved firm is to furnish Security Deposit @ 10% of the face value of the purchase order duly pledged in favour of the Dean & Principal, VSS Institute of Medical Sciences & research, Burla before supply which will be returned after successful Warranty/ Guarantee period. One Bi-Party agreement is to be made before execution of the order. The warranty /Guarantee period of the items should not be less than 2(two) years.
8. The Tenderer should mention the Warranty/Guarantee period of the items and an under taking to maintain the said items for at least 10(ten) years including Warranty/Guarantee period and should enter into Annual Maintenance Contract (AMC or CMC) for which a separate agreement with some extra terms and conditions with judicial Stamp/Court Paper will be made. No advance payment will be made towards repair or supply of spare parts for maintenance of the items.
9. The tenderer must furnish the details of turn key required for installation of the items.
10. The tender submitted by the firms should be properly page marked without which the tender may not come into consideration.
11. The Manufacturing firms directly participating in this Tender Call Notice can not authorize any agent for their same products against this Tender Call Notice.
12. If the items will show frequent troubles during warranty/Guarantee period then the defective spares will be replaced with new one at their own cost and risk within one month from the date of receipt of intimation letter. Failing to fulfill, the Security deposit will be forfeited.
13. The manufacturer/tenders who have been blacklisted either by the Tender inviting authority or by any state Govt. or Central Govt. organization are not eligible to participate in the tender during the period of blacklisting. A declaration to this effect must be submitted by the bidder failing which, the bidder's bid document will be rejected.
14. The tender must be sealed and should be superscribed as **"Tender for Mannequin items required for NELS Skill Centre, VIMSAR, Burla"** & **Due Date is 11-08-2026** containing both the sealed covers of Technical bid & Financial bid. Failure to put the Technical bid & Financial bid separately in sealed cover will lead to rejection of the bid.


Dean & Principal
VIMSAR, Burla
Sambalpur, Odisha-758017

15. The last date of receipt of tender is **10-08-2026** up to **5.30 P.M.** Beyond this, the tenders will not be accepted. The tenders should reach through Speed Post/ Regd. Post only. The tenders will be opened on next working day at 11.30 A.M. by a Committee. The tenderer or their authorized representatives may attend this office while opening. But this is not a bar to the Committee to open the tenders or carry out subsequent tender process if the tenderer or authorized representatives cannot attend this office while opening.

16. **Cover & documents in the Technical Bid:** The following documents should be furnished in a sealed cover with an Index page (**Annexure-I**).

(i) Self Attested Copies of up-to-date GST Certificate, Income Tax Return for last three years and PAN card.

(ii) The Bank draft of Rs.5000/- drawn in favour of the Dean & Principal, VIMSAR should be enclosed with the tender as (**Annexure-IA**)

(iii) Earnest Money Deposit (EMD) of Rs.80,000/- in shape of Fixed Deposit Receipt(FDR)/ NSC/Bank Draft duly pledged in favour of the Dean & Principal, VSS Institute of Medical Sciences & Research, Burla should be enclosed with the tender which will be returned after selection of the rates & firms as (**Annexure-IB**)

(iv) The firm should enclose the valid authorization or dealership certificate along with the tender for the items quoted. The authorization letter should be for this tender call notice.

(v) The tenderer shall furnish the detail Literature/Brochures/Operating Manuals along with Technical details and Catalogues of the quoted items along with their tender.

(vi) The declaration form in **Annexure-IC** must be signed by the tenderer before Notary Public/Executive Magistrate & must be enclosed with the tender in original. Failure to submit the declaration will lead to rejection of the bid.

(vii) The copy of the relevant up to date ISI/BIS/ISO certificate and CE/USFDA certificate as applicable for the specific tender-items should be furnished along with the tender for selection of quality products.

(viii) The user list, photocopy of the orders received towards the quoted items only for last two years along with their performance certificate should be enclosed with the tender.

(ix) Physical demonstration of each item is mandatory before finalization.

17. **Documents be submitted in the cover of Financial Bid:** The tenderers should submit the Financial Bid duly filled in and signed and sealed as per **Annexure-II**. Rates should be quoted inclusive of all duties/taxes except GST, which shall be indicated separately. The cost of comprehensive/Annual maintenance charges (CMC/AMC) beyond the warranty/Guarantee period including the cost of the Turn Key job with details, where it is applicable, are to be indicated. The number of servicing to be done for the items required during warranty/guarantee period as well as during AMC/CMC period to be specified.

The tenderers are required to furnish the Technical Bid and Financial Bid as per the format and checklist provided at **Annexure-I** and **Annexure-II** respectively in two separate sealed covers, which should be superscribed as "**Cover containing Technical Bid**" and "**Cover containing Financial Bid**" respectively. The cover containing the Technical Bid will be opened first for evaluation. The cover containing the Financial Bid of the tenders who will be qualified after evaluation of the technical bids (which includes Physical demonstration) will be opened thereafter.

18. The undersigned/Committee reserves the full right to accept in full or part or reject any or all the tenders without assigning any reasons thereof. The undersigned/Committee is not bound to accept the lowest quoted rate of tenders considering the technical aspects and actual need of the Institute.


Dean & Principal,
VSS Inst. of Med. Sc.& Research, Burla

DECLARATION FORM

(To be signed before Notary/Executive Magistrate)

I/We _____
having my/our office at _____ do
hereby declare that I/We have carefully read all the conditions of the Tender
Call Notice published by the Dean & Principal, VIMSAR, Burla for supply &
Installation of items as per the tender call notice for the period of one year. I
will abide by all conditions set forth in the tender paper for the year, 2026-27

I/We further declare that I/We possess valid manufacturing
Licence/Distributor Licence Bearing No. _____ Valid Up to _____

I/We also declare that I/We shall supply and install the items strictly in
accordance with the terms and conditions of the Tender Call Notice. The rates
quoted by me/us are not higher than the prevailing market price. If at any stage
it is found otherwise, I/We agree that the differential amount shall be recovered
from my/our firm/company.

I/We undertake to provide a warranty/guarantee of not less than **two (02)**
years on the items supplied against any manufacturing defect, rusting, or
breakdown. In case of any defect, I/We shall replace the item(s) at no extra
cost. Failing to do so, I/We understand that legal action as deemed appropriate
may be initiated against me/us, in addition to forfeiture of the Earnest Money
Deposit (EMD)/Security Deposit. I/We further undertake that no advance
payment shall be charged towards replacement of any part/parts during the
Warranty/Guarantee period or during the AMC/CMC period for the proper
functioning of the quoted items.

Signature of the bidder:

Date :

Name & Address of the Firm:

Affidavit before Executive Magistrate/Notary Public.


10.7.2026
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Annexure-I: Technical Bid Format

Sl. No.	Category No. (as per Tender)	Category Name (as per Tender)	Item Sl. No. (as per Tender)	Item Name (as per Tender)	Item Name quoted by Bidder	Brand/Make quoted by Bidder	Supporting Documents Attached (Yes/No)
1							
2							
3							
4							

Checklist to be enclosed with Technical Bid (i.e. Annexure-I):

- GST Certificate, PAN, IT Returns (last 3 years)
- Cost of Tender details vide T&C Clause 16 (ii) (Annexure-IA)
- EMD details (Annexure-IB)
- Authorization certificate (FY 2026–27)
- Literature/Brochures/Manuals of quoted items
- Declaration Form (Annexure-IC)
- ISO/CE/USFDA certificates
- User list & performance certificates (last 2 years)

Annexure-II: Financial Bid Format

Sl. No.	Category No. (as per Tender)	Category Name (as per Tender)	Item Sl. No. (as per Tender)	Item Name (as per Tender)	Item Name quoted by Bidder	Brand/Make quoted by Bidder	Catalogue Price (INR)
1							
2							
3							
4							

Checklist to be enclosed with Financial Bid (i.e. Annexure-I):

- Price catalogues (soft copy preferred)
- Undertaking letter: "After discounts, the rates quoted are not more than prevailing market price and shall remain valid for one year."
- List of items quoted in Financial Bid format

ABSTRACT of TENDER DETAILS

- Tender Call Notice
- Terms & Conditions (T&C)
- Annexure-I (Technical Bid format)
- Annexure-IA (Cost of Tender details vide T&C Clause 16 (ii))
- Annexure-IB (EMD details vide T&C Clause 16 (iii))
- Annexure-IC (Declaration Form)
- Annexure-II (Financial Bid format)
- Annexure-III (Technical Specifications of Mannequin Items)

10.7.2026

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Sambalpur, Odisha-768017

Annexure-III: Technical Specifications of Mannequin Items for NELS Skill Center, VIMSAR, Burla

1

Item No.	Name of Equipment / Mannequin	Key Technical Specifications	Warranty / CMC Requirement	Compliance (Yes/No by Bidder)	Remarks
1	ACLS Trainer Mannequin	- Anatomical Landmarks - Ventilation - Airway Management - Lung Expansion - Airway Obstruction - Chest Compression - Pulse Generation - IV Access - Defibrillation/Pacing - ECG Monitoring - Feedback - Rhythm Generation - Computer Integration - Accessories - Certification - Electrical Safety - Warranty/CMC - Environmental - Safety Standards - Demonstration - After-sales Service	2 years warranty + 5 years CMC		
	(Indicative Unit Cost (in Rs.): 10,00,000/-)	Adult CPR landmarks; realistic airway anatomy (tongue, larynx, trachea, vocal cords) Mouth-to-mouth, mouth-to-mask, bag-mask ventilation Oral/nasal intubation, supraglottic devices, combitube, laryngeal tube, OPA/NPA insertion Visual inspection + auscultation of breath sounds Simulation with relief via HT-CL & jaw thrust Realistic resistance; proper compression feedback Bilateral carotid pulse Peripheral intravenous line insertion Compatible with multiple defibrillators & pacemakers 3+ leads for rhythm monitoring Real-time CPR performance feedback device Device/software for multiple ECG rhythms Latest technology integrated with mannequin Price & list to be quoted separately CE/USFDA or equivalent standards Compatible with Indian electricity supply 2 years warranty + 5 years service support under CMC Operates at 10–50°C, 15–90% RH IEC-60601-1-2:2001 / BIS compliance Mandatory before finalization Must be available locally			
	(No. of Units): 3-4				

10.7.2026

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Annexure-III: Technical Specifications of Mannequin Items for NELS Skill Center, VIMSAR, Burla

2

2	Airway Management Trainer Mannequin (Indicative Unit Cost (in Rs.): 1,50,000/- (No. of Units): 4	22 Skin Material High-quality silicone-rubber/medical grade elastomer	2 years warranty + 5 years CMC
		1 Design 2 Anatomical Landmarks 3 Airway Devices 4 Safety Feature 5 Maneuvers 6 Esophageal Intubation 7 Lung Inflation 8 Training Model 9 Accessories 10 Certification 11 Environmental 12 Warranty/CMC 13 Demonstration 14 After-sales Service 15 Skin Material	Adult full face, normal skin colour, sturdy board base Teeth, tongue, oropharynx, nasopharynx, larynx, epiglottis, vocal cords, trachea, lungs, esophagus, stomach Demonstrates supraglottic devices, NPA, OPA, oral & nasal endotracheal tubes Alarm on teeth pressure during laryngoscopy Triple maneuvers, jaw thrust, chin lift, bag mask ventilation Detects stomach inflation Visual inspection of bilateral lung expansion Airway demonstration model with each trainer Lubricant & hard carry case (quoted separately) CE/USFDA or equivalent standards Operates at 10–50°C, 15–90% RH 2 years warranty + 5 years service support under CMC Mandatory before finalization Must be available locally High-quality silicone-rubber/medical grade elastomer

10.7.2024
 Dr. S. P. Prasad
 VIMSAR, Burla
 0676-2511000, 0676-2511001
 0676-2511002

Annexure-III: Technical Specifications of Mannequin Items for NEL-S Skill Center, VIMSAR, Burla

3

3	Adult CPR Trainer (Half Torso) Mannequin with cardiac feedback (Indicative Unit Cost (in Rs.): 25,000/- to 35,000/- (No. of Units): 6	2 years warranty + 5 years CMC		
	1 All anatomical landmarks relevant to adult CPR 2 Capable of mouth-to-mouth (with nose pinching), mouth-to-mask, and bag-mask ventilation 3 Chest rise visible with correct ventilations 4 Airway obstruction simulation, relieved by HT-CL and jaw thrust 5 Realistic chest compression resistance 6 Generates bilateral carotid pulse 7 Feedback mechanism for adequate chest compressions 8 Demonstration of quoted model is mandatory 9 Warranty: 2 years; Service support: 5 years under CMC 10 Accessories: 5 Faces, 5 Lungs, 5 Airways, 10 bottles Cleaning Spray 11 Rate and list of accessories to be quoted separately 12 Compliance with CE/USFDA or equivalent quality standards 13 Continuous operation at ambient temperature 10–50°C and relative humidity 15–90% 14 Local after-sales service availability 15 Skin made of high-quality silicone-rubber/medical grade elastomer or equivalent			
4	Adult CPR Trainer (Full Torso)	2 years warranty +		
	1 Clear anatomical characteristics, realistic touch feeling, and lifelike skin color relevant to adult CPR			


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	Mannequin with cardiac feedback (Indicative Unit Cost (in Rs.): 40,000/- to 50,000/- (No. of Units): 2	2 Provides consciousness judgment, emergency call, pulse examination, breath examination, and foreign body clearance operation 3 Capable of artificial breathing and cardiac compression; airway remains open 4 Standard components: CPR Mannequin, display with printer, remote controller 5 Various operation modes available for assessment 6 Features include electronic monitoring, voice prompt, and indicators showing inflation volume 7 Feedback mechanism for adequate chest compressions 8 Demonstration of quoted model is mandatory 9 Warranty: 2 years; Service support: 5 years under CMC 10 Rate and list of accessories to be quoted separately 11 Compliance with CE/USFDA or equivalent quality standards 12 Continuous operation at ambient temperature 10–50°C and relative humidity 15–90% 13 Local after-sales service availability 14 Skin made of high-quality silicone/medical grade elastomer or equivalent	5 years CMC	
5	Infant Basic Life Support Trainer Mannequin	1 All anatomical landmarks relevant to Infant CPR 2 Capable of mouth-to-mouth, mouth-to-mask, and bag-mask ventilation 3 Chest rise visible with correct ventilations	2 years warranty + 5 years CMC	

Dr. J. K. Sahoo
 10.12.2022
 Dean & Principal
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Annexure-III: Technical Specifications of Mannequin Items for NELS Skill Center, VIMSAR, Burla

5

with cardiac feedback	4 Airway obstruction simulation, relieved by HT-CL and jaw thrust 5 Realistic chest compression resistance 6 Feedback mechanism for adequate chest compressions 7 Demonstration of quoted model is mandatory 8 Warranty: 2 years; Service support: 5 years under CMC 9 Accessories: 5 Faces, 5 Lungs, 5 Airways, 10 Cleaning Sprays 10 Rate and list of accessories to be quoted separately 11 Compliance with CE/USFDA or equivalent quality standards 12 Continuous operation at ambient temperature 10–50°C and relative humidity 15–90% 13 Meets IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility 14 Local after-sales service availability 15 Skin made of high-quality silicone-rubber/medical grade elastomer or equivalent			
(Indicative Unit Cost (in Rs.): 35,000/- to 40,000/-) (No. of Units): 4				
6 Anatomical Torso Trauma Mannequin for thoracocentesis	General Should allow needle and surgical cricothyroidotomy, needle decompression of chest, thoracic tube drainage, and pericardiocentesis A. Cricothyroidotomy 1 Puncture site should include airway, cricoid cartilage, and thyroid cartilage	2 years warranty + 5 years CMC		

10/8/2026
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Sambalpur, Odisha-768027

	(Indicative Unit Cost (in Rs.): 4,00,000/-) (No. of Units): 2	B. Needle Decompression & Thoracic Tube Drainage 1 Facility to create tension pneumothorax on right or left chest 2 Distension of jugular vein simulated in conjunction with tension pneumothorax 3 Landmarks (sternal angle, second intercostal space) identifiable for needle chest decompression 4 On needle puncture in simulated tension pneumothorax, air should flow out; syringe plunger should lift with pressure 5 Skin made of high-quality silicone rubber/medical grade elastomer or equivalent 6 Insertion of chest tube should be possible 7 5th and 6th intercostal spaces present as landmarks for chest tube insertion (both left and right sides) C. Pericardiocentesis 1 Landmarks (xiphisternum and costal arch) identifiable for pericardial puncture 2 Should allow drawing of simulated blood after puncture with correct angle and depth D. General Requirements 1 Demonstration of quoted model is mandatory 2 Price and list of accessories to be quoted separately 3 Product should comply with CE/USFDA or equivalent quality standards 4 Electrical safety norms: compatible with Indian electricity supply 5 Warranty: 2 years; Service support: 5 years under CMC		
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[Signature]
 10.7.2023
 Dean & Principal
 VIMSAR, Burla
 Sambalpur, Odisha-768017

Annexure-III: Technical Specifications of Mannequin Items for NELS Skill Center, VIMSAR, Burla

7

		6 Continuous operation at ambient temperature 10–50°C and relative humidity 15–90% 7 Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility 8 Demonstration of equipment is mandatory 9 Local after-sales service must be available		
7	Anatomical Neck Trauma Mannequin for cricothyroidotomy (Indicative Unit Cost (in Rs.): 1,00,000/- to 1,50,000/-) (No. of Units): 2	Sl. No. Specification Requirement 1 Shall represent adult human neck anatomy with correct proportions and landmarks 2 Must identify thyroid cartilage, cricoid cartilage, cricothyroid membrane, tracheal rings, and hyoid bone 3 Neck structure shall allow midline and off-midline access 4 Skin made of high-quality silicone-rubber/medical grade elastomer or equivalent 5 Must simulate realistic skin resistance during incision and puncture 6 Supports training in surgical cricothyroidotomy, needle cricothyroidotomy, emergency cricothyroidotomy, airway tube insertion and fixation 7 Airway lumen correctly aligned with tracheal anatomy 8 Allows incision practice using surgical instruments 9 Skin pads and cricothyroid membrane should be replaceable 10 Material should be non-toxic and safe for repeated invasive procedures 11 Demonstration of quoted equipment is mandatory 12 Local after-sales service must be available 13 Supply should include anatomical neck trauma mannequin and replaceable skins 14 Product should comply with CE/USFDA or equivalent quality standards 15 Warranty: 2 years; Service support: 5 years under CMC	2 years warranty + 5 years CMC	


 10.7.2026
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 Sambalpur, Odisha-768017

8	Adult Phlebotomy Trainer Arm (Indicative Unit Cost (in Rs.): 30,000/- (No. of Units): 4	Sl. No. Specification Requirement - Adult arm with replaceable skin and veins designed for peripheral intravenous therapy - Venipuncture possible in antecubital fossa, dorsum of hand, and forearm - Palpable veins to enable site selection and preparation - Infusible veins allow peripheral therapy with IV bolus or push injection method - Replaceable skin and veins ensure longevity of model - Accessories: Replacement skin & vein set, simulated blood, blood bag with tubing and connector, clamp and hook, carry case, directions for use - Skin material soft, pliable, lifelike to mimic adult skin resistance at puncture sites (preferably high-quality silicone-rubber or equivalent) - Demonstration of quoted model is mandatory - Product should comply with CE/USFDA or equivalent quality standards - Warranty: 2 years; Service support: 5 years under CMC - Rate and list of accessories to be quoted separately - Continuous operation at ambient temperature 10–50°C and relative humidity 15–90%	2 years warranty + 5 years CMC
9	Pediatric Phlebotomy Trainer Arm (Indicative Unit Cost (in Rs.): 30,000/- (No. of Units): 2	Sl. No. Specification Requirement - Anatomically accurate pediatric arm representing realistic size, proportions, and anatomic landmarks - Infusible veins enabling peripheral IV cannulation, IV bolus injections, and rapid push injections - Palpable veins to enable site selection and preparation by touch - Replaceable skin and veins to ensure longevity of model - Accessories: Replacement skin & vein set, simulated blood, blood bag with tubing and connector, clamp and hook, carry case, directions for use	2 years warranty + 5 years CMC



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		6 Skin material soft, pliable, lifelike to mimic pediatric skin resistance at puncture sites (preferably high-quality silicone-rubber or equivalent) 7 Demonstration of quoted model is mandatory 8 Product should comply with CE/USFDA or equivalent quality standards 9 Warranty: 2 years; Service support: 5 years under CMC 10 Rate and list of accessories to be quoted separately 11 Continuous operation at ambient temperature 10–50°C and relative humidity 15–90%			
10	Adult Intraosseous Access Limb	Sl. No. 1 Anatomically accurate adult limb representing realistic size with anatomic landmarks 2 Leg should be fluid-capable with blood source accessible through injection site 3 Includes palpable landmarks, replaceable bones and skin, and a pressurized system to allow aspiration of fluid 4 Accessories: Power driver (1), adult-size needles with accessories (5 pcs), adult limb with at least 5 bones (1), skin pads, simulated blood, lubricating jelly, syringe with tubing 5 Skin material soft, pliable, lifelike to mimic adult skin resistance at puncture sites (preferably high-quality silicone-rubber or equivalent) 6 Demonstration of quoted model is mandatory 7 Product should comply with CE/USFDA or equivalent quality standards 8 Warranty: 2 years; Service support: 5 years under CMC	2 years warranty + 5 years CMC		
11	Pediatric Intraosseous Access Limb	Sl. No. 1 Anatomically accurate pediatric limb representing realistic size with anatomic landmarks 2 Bones must have multiple sides, allowing repeated punctures 3 Includes palpable landmarks, replaceable bones and skin, and a pressurized system to allow aspiration of fluid	2 years warranty + 5 years CMC		

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 10.6.2020
 Dean & Principal
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	50,000/- (No. of Units): 1	4 Accessories: Power driver (1), pediatric-size needles with accessories (5 pcs), pediatric limb with at least 5 bones (1), skin pads, 20 ml syringe with tubing, carry bag 5 Skin material soft, pliable, lifelike to mimic pediatric skin resistance at puncture sites (preferably high-quality silicone-rubber or equivalent) 6 Demonstration of quoted model is mandatory 7 Product should comply with CE/USFDA or equivalent quality standards 8 Warranty: 2 years; Service support: 5 years under CMC		
12	Central IV Mannequin (Indicative Unit Cost (in Rs.): 1,00,000/- (No. of Units): 2	Sl. No. Specification Requirement 1 Enables practice of IV access to internal jugular vein, subclavian vein, and femoral vein 2 Palpable arterial pulsation must be present 3 Long catheters may be placed into the training model 4 Realistic tissue simulation to be provided 5 Neck pad and femoral pad replaceable without use of tools 6 Simulated veins inside pads to provide natural resistance during puncture and natural flashback of blood 7 Veins and skin to be self-sealing so puncture site is not visible to next student 8 Carry case for easy transportation and storage included 9 Four neck pads and four femoral pads to be provided with each manikin 10 List of all consumables required for full functioning of trainer along with costs to be provided 11 Warranty: 2 years; Service support: 5 years under CMC 12 Continuous operation at ambient temperature 10–50°C and relative humidity 15–90% 13 Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility 14 Electrical safety norms: compatible with Indian electricity supply 15 Demonstration of quoted equipment is mandatory	2 years warranty + 5 years CMC	

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10.7.2020
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Annexure-III: Technical Specifications of Mannequin Items for NELS Skill Center, VIMSAR, Burla

11

13	AED Trainer with Simulator	16 Local after-sales service must be available 17 Skin made of high-quality silicone-rubber/medical grade elastomer or equivalent	2 years warranty + 5 years CMC		
	(Indicative Unit Cost (in Rs.): 30,000/- (No. of Units): 4-6	Sl. No. Specification Requirement 1 Mannequin with realistic anatomical landmarks; lightweight adult CPR/AED trainer with essential features for adult CPR/AED learning 2 Realistic feel when performing chest compressions with vertical chest movement 3 Provides feedback on chest compressions 4 Allows ventilation with mouth-to-mouth (with nose pinching), mouth-to-mask, and pocket mask 5 Natural airway obstruction to teach airway opening techniques 6 Head tilt/chin lift and jaw thrust maneuvers supported for resuscitation practice 7 Realistic airway functions: airway remains obstructed without proper head tilt/chin lift or jaw thrust 8 Chest rise visible with correct ventilations 9 Provides feedback on correct placement of electrodes 10 Anatomically correct landmarks and sternal notch allow practice of identification relevant to adult CPR 11 Consumables: 6 sets of pads each for adult and pediatric to be provided with equipment 12 Demonstration of quoted equipment is mandatory 13 List and price of consumables to be quoted separately; price to remain fixed for 3 years 14 Product should comply with CE/USFDA or equivalent quality standards 15 Warranty: 2 years; Service support: 5 years under CMC 16 Electrical safety norms: compatible with Indian electricity supply 17 Rate of accessories to be quoted separately			

[Signature]
10.2.2024
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		18 Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility 19 Continuous operation at ambient temperature 10–50°C and relative humidity 15–90% 20 Local after-sales service must be available		
14	ECG Simulator and Rhythm generator (DART)	Sl. No. 1 Defibrillation shock should be deliverable through simulator 2 Built-in circuitry must allow defibrillation and pacing directly into ECG simulator; rhythms observable via PADS connector 3 Battery saving feature: auto power-off when not in use	2 years warranty + 5 years CMC	

[Signature]
 10.9.2016
 Dean & Principal
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(Indicative Unit Cost (in Rs.): 35,500/- (No. of Units): 4	4 Availability of various pacing waveforms: Sinus, Junctional Brady, Second degree type I AV block, Type II AV block, Third degree block, etc. 5 Adult & pediatric rhythms: V-fib, V-tach (fast/slow), A-flutter, A-fib, sinus tach, SVT, asystole, NSR, second/third degree blocks; realistic 3-lead/4-lead ECG rhythms 6 Demonstration of quoted model is mandatory 7 Product should comply with CE/USFDA or equivalent quality standards 8 Warranty: 2 years; Service support: 5 years under CMC 9 Electrical safety norms: compatible with Indian electricity supply 10 Local after-sales service must be available			
15 Defibrillator-cum-Monitor (Indicative Unit Cost (in Rs.): 5,00,000/- (No. of Units): 2	Specification Requirement 1 Defibrillator should use low-energy biphasic waveform for delivering shock energy; energy selection range 1-300 J 2 Should have AED mode as well as manual mode 3 Must support ECG monitoring, transcutaneous pacing, defibrillation, synchronized cardioversion; provide CPR feedback with real-time chest compression rate & depth, visual and audible feedback 4 Capable of monitoring ECG through ECG cables, multifunction electrodes/pads, and external paddles 5 Unit should have adult and in-built pediatric external paddles; must defibrillate both adult and pediatric patients 6 Compact and portable; built-in rechargeable battery supporting at least 1 hour of continuous ECG monitoring 7 Battery charge indicator must be present 8 Facility for self-test 9 Disarm facility must be available	2 years warranty + 5 years CMC		


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		Defibrillator should include pulse oximetry and NIBP as integral parts; facility for external non-invasive pacing User-selectable alarm settings Should work on mains and rechargeable battery; unit must be able to charge capacitor for shock even without battery Accessories to be supplied: (a) Battery – 1 no.; (b) 5-lead ECG cable – 1 no.; (c) External defibrillator paddles (adult & pediatric) – 1 no.; (d) Multifunction defibrillator & monitoring pads/gel sheets – 4 per unit; (e) SpO₂ finger probe (adult) – 1 per unit; (f) NIBP cuff (adult) – 1 per unit Demonstration of quoted model is mandatory Product should be USFDA/European CE approved Warranty: 2 years; Service support: 5 years under CMC Electrical safety norms: compatible with Indian electricity supply Rate of accessories to be quoted separately Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility Continuous operation at ambient temperature 10–50°C and relative humidity 15–90% Local after-sales service must be available	
16	Defibrillator (Monitor type) (Indicative Unit Cost (in Rs.): 1,50,000/-	Sl. No. Specification Requirement 1 Defibrillator should use low-energy biphasic waveform for delivering shock energy; energy selection range 1–300 J 2 Should have AED mode with voice guide for CPR as well as manual mode 3 Facility for defibrillation and synchronized cardioversion with visual message display on monitor	2 years warranty + 5 years CMC

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10.10.2023
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 Director, VIMSAR
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Annexure-III: Technical Specifications of Mannequin Items for NELS Skill Center, VIMSAR, Burla

15

(No. of Units): 2				
4 Unit must meet current AHA specifications for biphasic defibrillation 5 Unit should have adult and in-built pediatric external paddles; must defibrillate both adult and pediatric patients 6 Compact and portable; built-in rechargeable battery 7 User-selectable alarm settings 8 Unit should have color LED display 9 Should work on mains and rechargeable battery; unit must be able to charge capacitor for shock even without battery 10 Accessories to be supplied: (a) Battery – 1 no.; (b) External defibrillator paddles (adult & pediatric) – 1 no. 11 Demonstration of quoted model is mandatory 12 Product should be USFDA/European CE approved 13 Warranty: 2 years; Service support: 5 years under CMC 14 Electrical safety norms: compatible with Indian electricity supply 15 Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility 16 Continuous operation at ambient temperature 10–50°C and relative humidity 15–90% 17 Local after-sales service must be available				

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17	Airway Foreign Body Trainer Mannequin (Indicative Unit Cost (in Rs.): 50,000/- (No. of Units): 1	Sl. No. Specification Requirement 1 Mannequin must include rib cage, xiphoid process, suprasternal notch to provide anatomical reference; foreign body for airway obstruction 2 Should have realistic and lifelike skin with accurate anatomical landmarks 3 Demonstration of quoted equipment is mandatory 4 Product should comply with CE/USFDA or equivalent quality standards 5 Warranty: 2 years; Service support: 5 years under CMC 6 Electrical safety norms (if applicable): compatible with Indian electricity supply 7 Local after-sales service must be available 8 Skin made of high-quality silicone-rubber/medical grade elastomer or equivalent	2 years warranty + 5 years CMC	
18	Flexible Full Spine Model (Indicative Unit Cost (in Rs.): 3,000/-	Sl. No. Specification Requirement 1 Complete spine model, standing height approx. 74 cm 2 Fully flexible mounting throughout spine; flexibly mounted for effective demonstration on stand 3 Includes full pelvis and occipital plate 4 Spinal nerve exits must be present 5 Cervical vertebral artery must be included	Durable quality	

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Annexure-II: Technical Specifications of Mannequin Items for NELS Skill Center, VIMSAR, Burla

17

19	(No. of Units): 1 Broselow Pediatric emergency Tape (hardbind) (Indicative Unit Cost (in Rs.): 3,500/- (No. of Units): 2	6 Model should be durable and of good quality 7 Demonstration of quoted model is mandatory 1. Length based pediatric emergency resuscitation tape. 2. Should be High-quality, medical grade laminated synthetic. 3. Should be liquid resistant, non-tearing and easy to sanitize. 4. Demonstration is must.	2 years warranty + 5 years CMC		
20	Infusion Syringe Pump for 10,20 and 50 ml.) (Indicative Unit Cost (in Rs.): 15,000/- to 20,000/- (No. of Units): 2	Section Sl. No. Specification Requirement 1. Description of Function 1.1 Provides uniform flow of fluid by precisely driving syringe plunger; ensures accurate and continuous flow rate for precise IV medication delivery in critical care 2. Operational Requirements 2.1 Programmable, user-friendly, safe to use; must have battery backup and comprehensive alarm system 2.2 Demonstration of quoted equipment is mandatory 3. Technical Specifications 3.1 Flow rate programmable from 0.1 to ≥ 999 ml/hr in 0.1 ml/hr steps; user-selectable flow set rate option 3.2 Bolus rate programmable from 0.1 to ≥ 999 ml/hr with infused volume display; audio reminder after every 0.5 ml bolus delivered 3.3 Display of drug name with provision to memorize 10–15 names; drug calculations supported	2 years warranty + 5 years CMC		

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			3.4 Keep Vein Open (KVO) available at 1.0 ml/hr or set rate if lower; user option to disable KVO 3.5 Occlusion pressure triggers at three levels 3.6 Preferably European CE/USFDA approved/certified or equivalent 3.7 Compatible with standard disposable syringes of 10, 20, 50/60 ml sizes of different makes 3.8 Automatic detection of syringe size and proper fixing; alarms for wrong loading (flanges out of slot, disengaged plunger, unsecured barrel, etc.) 3.9 Anti-bolus system to reduce pressure on sudden release of occlusion Comprehensive alarm package: occlusion limit exceed, near end of infusion pre-alarm/alarm, volume limit pre-alarm/alarm, KVO rate flow, low battery pre-alarm/alarm, AC power failure, drive disengaged 3.10 Power input: 220–240 VAC, 50 Hz; rechargeable battery backup ≥ 4–6 hours at 5 ml/hr flow with 50 ml syringe; larger battery life and residual life indication preferred 3.11 Syringe infusion pump – 01 unit 4.1 Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility 5.1 Continuous operation at ambient temperature 10–40°C and relative humidity 15–90% 5.2 Demonstration of quoted equipment is mandatory 5.3 Essential to separately mention price of each consumable 5.4 Warranty: 2 years; Service support: 5 years under CMC 5.5 Electrical safety norms: compatible with Indian electricity supply	
		4. System 5. Environmental Factors		

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Sl. No.	Specification Requirement	2 years warranty + 5 years CMC		
21	Post-Partum Haemorrhage control training mannequin (Indicative Unit Cost (in Rs.): 25,000/-) (No. of Units): 1			
1	Mannequin must include placenta, umbilical cord, urine bladder for catheterization, newborn simulator, and blood tank			
2	Simulator should have realistic size, lifelike skin, accurate anatomical landmarks; natural weight, feel, and touch when filled with lukewarm water			
3	Simulator should allow a wide variety of complications and birthing scenarios: vacuum-assisted delivery, catheterization, breech delivery, incomplete/retained placenta			
4	Demonstration of quoted equipment is mandatory			
5	Product should comply with CE/USFDA or equivalent quality standards			
6	Warranty: 2 years; Service support: 5 years under CMC			
7	Electrical safety norms (if applicable): compatible with Indian electricity supply			
8	Local after-sales service must be available			
9	Skin of mannequin should be durable, made of high-quality silicone-rubber/medical grade elastomer or equivalent			

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