

# ***Baba Farid University of Health Sciences, Faridkot***

## ***E-TENDER NOTICE FOR supply & installation of Skill Lab Equipment for GGS Medical College and Hospital***

### **E-Tender Form**

#### **(E-Tender enquiry for Supply and Installation of Skill Lab Equipment in the GGS Medical College & Hospital, Faridkot)**

Tender Notification No :	<b>To be provided by the E-procurement portal of the Govt. of Punjab.</b>
Tender Notification Date:	____/____/____
Requirement	<b>E-Tender notice for supply and Installation of Skill Lab Equipment</b>
Cost of the tender document:-	Rs.2360/- (Non-refundable) to be deposited through Online Mode Only in favor of Registrar, Baba Farid University of Health Sciences, Faridkot.
Tender Processing Fee	To be charged by Govt. of Punjab as per its norms. (Non- refundable)
Earnest Money Deposit (EMD)	As per scope of supply. The Earnest Money Deposit must be submitted in the shape of Online Payment in favor of Registrar, Baba Farid University of Health Sciences, Faridkot on or before due date (Refundable to the Non-successful bidders, without any type of interest or other charges). In case of successful tenderer, it will be returned after receipt of the security amount as per tender terms and conditions.
Date of start of downloading of tender documents	<b>28.02.2022</b> from the website of the Punjab Government i.e. <a href="https://eproc.punjab.gov.in">https://eproc.punjab.gov.in</a>
Website for downloading of the tender document:-	<a href="https://eproc.punjab.gov.in">https://eproc.punjab.gov.in</a> However, the details may also be obtained from the University website i.e. <a href="http://www.bfuhs.ac.in">www.bfuhs.ac.in</a> and college website <a href="http://www.ggsmch.org">www.ggsmch.org</a>
Last date for downloading of the tender document:-	<b>15.03.2022 up to 12.30 pm</b>
Last date & time for uploading of the tender documents:-	<b>15.03.2022 up to 1.30 pm (through online mode only)</b>
Date, time and venue for opening of the Technical Bids	By the next day from the last date of submission of tenders (by 5:00 p.m.) on the e- procurement portal of the Govt. of Punjab. However the bidder or their authorized agents / representative may attend the tender opening process at the University Procurement & Facility Department, Baba Farid University of Health Sciences, Faridkot on the prescribed time and date.
Date, time and venue for opening of the Price Bids	The opening date of financial bids of the technically qualified bidders will be informed on the university web site, e- procurement portal of the Govt. of Punjab. However the bidder or their authorized agents / representative may attend the tender opening process at the University Procurement & Facility Department, Baba Farid University of Health Sciences, Faridkot on the prescribed time and date. The University authorities will have right to decide any other date and time for the opening of the Financial bids.
Who can be contacted for obtaining more information about the tender.	Principal, Guru Gobind Singh Medical College & Hospital, Sadiq Road, Faridkot. 01639-251111, 98773-65600, 94655-13138 E-mail: <a href="mailto:procurement@ggsmch.org">procurement@ggsmch.org</a> <a href="mailto:ggsmc@punjab.gov.in">ggsmc@punjab.gov.in</a> , (on all working days from 9.00 a.m. to 5.00 p.m.)

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## *E-TENDER NOTICE FOR supply & installation of Skill Lab Equipment for GGS Medical College and Hospital*

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### **NOTICE INVITING E-TENDER**

**E-Tenders** are invited on or before **15.03.2022** from manufacturers or their authorized agents/distributors **for supply and Installation of Skill Lab Equipment required at GGS Medical College & Hospital, Faridkot.** The tender document containing detailed terms & conditions may be downloaded from the E-procurement website of the Punjab Government i.e. <https://eproc.punjab.gov.in> and its detail may also be seen at the University website [www.bfuhs.ac.in](http://www.bfuhs.ac.in) and college website [www.ggsmch.org](http://www.ggsmch.org)

#### **TERMS AND CONDITIONS:-**

1. The tender must be uploaded on or before the last date/ time of the submission of tender.
2. The Tender processing fee should be submitted through Net Banking/Credit card/Online mode only and as per Punjab Govt.
3. The **tenders will be opened online** on the website i.e. <https://eproc.punjab.gov.in> at the, Baba Farid University of Health Sciences, Faridkot. The bidder(s) shall be at liberty to be present, in person or through their authorized representative(s) at the time of opening of the tender as specified in the Tender Notice. In case the authorized representatives are to be present, they must furnish the authority letter from the bidder (s), on whose behalf they are representing otherwise they will not be allowed to participate in the process of opening of tender.
4. **The Price bids of technically qualified bidders will be opened** on the website i.e. <https://eproc.punjab.gov.in> at, Baba Farid University of Health Sciences, Faridkot. In case of any change of date and time it will be notified to the technically qualified bidders through E-mail/telephone.
5. The Registrar/Principal reserves all rights to accept or reject any or all the tenders without assigning any reason.

Registrar

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### **INSTRUCTIONS/ GUIDELINES TO THE TENDERERS**

1. The bidder needs to register himself/ herself on <https://eproc.punjab.gov.in> the bidder is also required to obtain Class III digital signature certificates to complete this process.
2. Please download the Tender document from the website of e-procurement of the Govt. of Punjab <https://eproc.punjab.gov.in> Please fill all the relevant blanks on all the pages of the tender document sign along with a stamp/ seal all pages and then a scanned copy of the same may be uploaded on the website at the time of submission of the tender document.
3. **It should be clearly noted that this tender will be accepted though e-tender mode only.** The tenders submitted through offline mode will not be accepted under any circumstances.
4. **Tender Fee :** as per Govt. and should be deposited through online mode only
5. **Tender Processing Fee:** as per Punjab Govt. (non-refundable) may be deposited through online mode i.e. Net Banking/ Credit Card/ Debit Card only. The tender processing fee will not be accepted through any other mode.
6. **Refundable Earnest Money Deposit (EMD):** EMD to be deposited online mode only in favor of Registrar Baba Farid University of Health Sciences, Faridkot.
7. **Upload** signed copy of Technical Bid Compliance Statement (**Annexure-I**).
8. **Upload** an affidavit regarding Non-Black listing as per proforma given at **Annexure-II** duly attested by an Executive Magistrate or a Notary Public.
9. In case the Bidder is Authorized Supplier/Agency, the Authorization Certificate as per the Format given at **Annexure-‘III’** (duly filled in), **to be uploaded.**
10. In case the Bidder is Authorized Supplier/Agency, an undertaking/certificate issued by their Principal Manufacturer/Supplier that in case dealership/distributorship is withdrawn after supply of the Instruments then the Principal Manufacturer/Supplier will be responsible for Guarantee/Warranty/AMC/CMC of the Equipments/Instruments. (**Annexure – ‘IV’**), **to be uploaded.**
11. **Upload** details of Bank Account for refund of EMD (**Annexure – V**).
12. In addition to this, following **documents are to be uploaded** with Technical Bid:-
  - i) Details of registration as Company /Firm/ Establishment.
  - ii) **Standard Certification must be uploaded as per tender document.**
  - iii) Copy of Certificate of Registration for service Tax/TIN/TAN/PAN/VAT.
  - iv) A certificate from C.A. regarding Annual Turnover with Balance Sheet for the last 3 (three) financial years i.e. 2018-19, 2019-20 & 2020-21.
  - v) Copy of the IT Returns for three financial years i.e. 2018-19, 2019-20 & 2020-21.
15. Price should be quoted and **uploaded** only in Excel Sheet proforma at **Annexure-‘VI’**.

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**SCOPE OF SUPPLY**

<b>Sr.</b>	<b>Name of Equipment</b>	<b>Approx. Qty. Reqd.</b>	<b>Earnest Money to be Submitted (in Rs.)</b>
1	ACLS mannequin	4	75000
2	Airway management Trainer	4	20000
3	Adult CPR training mannequin	6	5000
4	Infant adult CPR training mannequin	6	15000
5	ALS baby (infant) Mannequin	2	10000
6	Anatomical Torso Trauma Mannequin	2	25000
7	Head and Neck Trauma Mannequin	1	5000
8	Phlebotomy Trainer Arm	4	5000
9	Pediatrics Intraosseous Trainer	1	2000
10	Central IV manikin with Internal Jugular, Subclavian & Femoral access	1	5000
11	ALS Simulator	4	100000
12	AED Trainer with Simulator	4	20000
13	Foreign body trainer	6	2000

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14	Cervical Spine Anatomic model	1	2000
15	Anatomic full spine model	1	1000
16	Portable Video Laryngoscope	2	5000
17	Paracentesis mannequin	1	5000
18	Femoral access site mannequin	1	3000
19	ECG Simulator and rhythm generator	4	4500
20	Monitor defibrillator pacer, capable of defibrillation /synchronized cardio version	4	60000

Note: - Qty may increase or decrease.

## **TECHNICAL SPECIFICATIONS**

### **1. Technical Specifications of ACLS mannequin:**

1. It should have all anatomical landmarks relevant to adult CPR
2. Should be able to perform mouth to mouth, mouth to mask and bag mask ventilation
3. It should have realistic anatomy of the tongue, oropharynx, epiglottis, larynx, vocal cords, and trachea.
4. It should be suitable for insertion of oral and nasal endotracheal tube, supraglottic devices, combitube, Laryngeal Tube, oropharyngeal and nasopharyngeal airway.
5. It should provide visual inspection of lung expansion along with auscultation of breath sounds.
6. Should be able to mimic airway obstruction which can be relieved by HT-CL and jaw thrust.
7. It should have realistic chest compression resistance which allows to perform proper chest compressions in a real-life situation.
8. It should be capable of generating bilateral carotid pulse.
9. Insertion of Peripheral intravenous line availability.
10. Can match defibrillators and pacemakers of different factories and types to achieve real defibrillation and pacing.
11. It should have 3 or more ECG leads feature to monitor ECG readings.
12. It should have feedback device to allow real-time CPR performance feedback
13. It should have device/software for different types of rhythm generation
14. Computer with latest technology integrated with the mannequin
15. Should be European CE approved/ USFDA approved
16. Electrical safety norms: should be compatible with Indian electricity supply
17. Warranty of 5 years followed by CMC for 5 years
18. The unit shall be capable of operating continuously in ambient temperature of 10 -50 deg C and relative humidity of 15-90%
19. Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility.
20. Demonstration of equipment is must
21. After sales service should be available regionally.

### **2. Technical Specifications of Airway management Trainer:**

1. Adult Full face, normal skin colour with head, good quality material.

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2. Airway Mannequin should have anatomical landmarks like teeth, tongue, oropharynx, nasopharynx, larynx, epiglottis, vocal cords and trachea, lungs, esophagus and stomach.
  3. Should be able to demonstrate use of Supraglottic devices, NPA, OPA, oral and nasal endotracheal tubes.
  4. It should give alarm with pressure on teeth during laryngoscopy
  5. Should be able to demonstrate Triple manoeuvre, jaw thrust, chin lift and Bag mask ventilation.
  6. Should have the facility for detection of Stomach inflation with esophageal intubation.
  7. Visual inspection of two proper Lungs inflation
  8. Airway demonstration model with each trainer
  9. Mannequin on sturdy board
  10. Provide Lubricant and Hard carry case
  11. Should be USFDA/ European CE approved
  12. The unit shall be capable of operating continuously in ambient temperature of 10 -50 deg C and relative humidity of 15-90%.
  13. Warranty for 5 years followed by CMC for 5 years
  14. Demonstration is must
  15. After sale service should be available regionally

### **3. ADULT CPR TRAINING MANNEQUIN :**

1. It should have all anatomical landmarks relevant to adult CPR.
2. Should be able to perform mouth to mouth, mouth to mask and bag mask ventilation
3. Adult CPR mannequin should have realistic features to demonstrate opening of airway, head tilt / chin lift and jaw thrust techniques.
4. Should be able to mimic airway obstruction which can be relieved by HT-CL and jaw thrust.
5. Adult CPR mannequin should have removable, reusable faces.
6. Adult CPR mannequin should have a feedback device which tells correct compression depth, rate, incomplete release and adequate ventilation.
7. It should be capable of generating carotid pulse.
8. Chest rise should be seen with correct ventilations
9. It should provide visual inspection of lung expansion with chest rise.
10. Should be compatible with most of the AED trainers use.
11. It should have realistic chest compression resistance which allows to perform proper chest compressions in a real-life situation.
12. Additional Accessories: reusable mannequin faces -02 , Carry case and clothing
13. Should be European CE approved/ USFDA approved
14. Electrical safety norms: should be compatible with Indian electricity supply
15. Warranty of 5 years followed by CMC for 5 years
16. The unit shall be capable of operating continuously in ambient temperature of 10 -50 deg C and relative humidity of 15-90% 20.
17. Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility
18. Demonstration of equipment is must

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19. After sales service should be available regionally.

#### **4. INFANT BASIC LIFE SUPPORT TRAINER :**

1. It should have all anatomical landmarks relevant to Infant CPR.
2. Should be able to perform mouth to mouth, mouth to mask and bag mask ventilation.
3. Chest rise should be with correct ventilations.
4. Should be able to mimic airway obstruction which can be relieved by HT-CL and jaw thrust.
5. It should have realistic chest compression resistance.
6. There should be feedback about adequate chest compressions and ventilation.
7. Should be compatible with most of the AED trainers use.
8. Demonstration of quoted model is a must.
9. Warranty for 5 years followed by 5 years CMC.
10. Additional Accessories: reusable mannequin faces -02 , Carry case and clothing
11. Should be USFDA/ European CE approved.
12. The unit shall be capable of operating continuously in ambient temperature of 10 -50 deg C and relative humidity of 15-90%.
13. Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility.
14. After sales service should be available regionally.

#### **5. Technical Specifications of ALS Mannequin Infant:**

1. It should have all anatomical landmarks relevant to infant CPR.
2. Should be able to perform mouth to mouth, mouth to mask and bag mask ventilation.
3. It should have realistic anatomy of the tongue, oropharynx, epiglottis, larynx, vocal cords, and trachea.
4. It should be suitable for insertion of supraglottic device, oropharyngeal and nasopharyngeal airway, oral or nasal intubation.
5. It should provide visual inspection of lung expansion along with auscultation of breath sounds.
6. Should be able to mimic airway obstruction which can be relieved by HT-CL and jaw thrust.
7. Should have the facility of intraosseous needle insertion with aspiration of bone marrow.



8. It should have realistic chest compression resistance which allows to perform proper chest compressions in a real-life situation.
9. It should be capable of generating bilateral carotid pulse.
10. Can match defibrillators and pacemakers of different factories and types to achieve real defibrillation and pacing.
11. It should have 3 ECG leads feature to monitor ECG readings.
12. It should have feedback device to allow real-time CPR performance feedback.
13. Computer with latest technology integrated with the mannequin.
14. It should have device/software for different types of rhythm generation.
15. It should have the provision of intraosseus needle placement.
16. Should be USFDA/ European CE approved
17. Warranty of 5 years followed by CMC of 5 years.
18. Electrical safety norms: should be compatible with Indian electricity supply.
19. Shall meet IEC – 60601 – 1 -2: 2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility.
20. The unit shall be capable of operating continuously in ambient temperature of 10 degree Celsius to 50 degree Celsius and relative humidity of 15% to 90%.

## **6. Technical Specifications of Anatomical Torso Trauma Manikin:**

It 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. The cricothyroid membrane should allow surgical cricothyroidotomy

### **B. Needle decompress of chest and thoracic tube drainage**

1. There should be facility to create tension pneumothorax of the right or left of the chest.
2. Distension of jugular vein should be simulated in conjunction with tension pneumothorax.
3. Landmarks like Sternal angle and second intercostal space should be identifiable for needle chest decompression.
4. On needle puncture in simulated tension pneumothorax, air should flow out when syringe is attached with puncture needle, air pressure should lift the plunger.
5. Skin should be made of good quality silicone material
6. Insertion of chest tube should be possible
7. 5<sup>th</sup> and sixth intercostals spaces should be present for use as landmark for insertion of chest tube on both left and right side.

### **C. Pericardiocentesis**

1. Landmarks like Xiphisternum and costal arch should be identifiable to enable pericardial puncture.

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2. Should be able to draw simulated blood after puncture with correct angle and depth.
  
1. Should be European CE approved/ USFDA approved.
2. Electrical safety norms: should be compatible with Indian electricity supply.
3. Warranty of 5 years followed by CMC for 5 years.
4. The unit shall be capable of operating continuously in ambient temperature of 10 -50 deg C and relative humidity of 15-90%.
  
5. Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility.
6. Demonstration of equipment is must.
7. After sales service should be available regionally

#### **7. Technical Specification of Head Trauma Mannequin:**

1. Mounted to a base but can be easily transferred to adult manikins for use in full-body trauma scenarios.
2. Recognition and assessment of the following:
  1. Palpable fractures
  2. Open depressed skull fracture
  3. Le Fort I & III
  4. Nasal fracture
  5. Mandibular fracture (left)
  6. Fracture of C-6 vertebra
  7. Unequal pupils
  8. Haemotympanum
3. Demonstration is must.
4. Should be USFDA/ European CE approved
5. Warranty of 5 years followed by CMC of 5 years.
6. The unit shall be capable of operating continuously in ambient temperature of 10 degree Celsius to 50 degree Celsius and relative humidity of 15% to 90%.
7. After sales service should be available regionally.

#### **8. Technical specifications of Phlebotomy Trainer Arm/ Peripheral IV line trainer :**

1. Adult arm with replaceable skin and veins designed for peripheral intravenous therapy.
2. Venipuncture should be possible in the antecubital fossa , dorsum of the hand and forearm

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3. Palpable veins should enable site selection and preparation
  4. Infusible veins allow peripheral therapy with IV bolus or push injection method
  5. Replaceable skin and veins should ensure longevity of model
  6. *Accessories:* Replacement Skin & Vein Set -02 , Simulated Blood -01, Blood Bag with Tubing and Connector -01 , Clamp and Hook- 01, Carry Case -01
  7. Demonstration is a must.
  8. Should be USFDA/ European CE approved
  9. Warranty of 5 years followed by CMC of 5 years.
  10. The unit shall be capable of operating continuously in ambient temperature of 10 degree Celsius to 50 degree Celsius and relative humidity of 15% to 90%.

#### **9. Infant Intraosseous Trainer :**

1. Designed for training in infant intraosseous infusion techniques.
2. Provision for Intraosseous needle insertion.
3. Provision for Simulated tibia and anatomical landmarks at the tibial tuberosity and medial malleolus.
4. Provision for Fluid may be infused for realistic flashback.
5. Provision for Drain in heel connecting to reservoir bag.
6. Demonstration is a must.
7. Should be USFDA/ European CE approved
8. Warranty of 5 years followed by CMC of 5 years.
9. The unit shall be capable of operating continuously in ambient temperature of 10 degree Celsius to 50 degree Celsius and relative humidity of 15% to 90%.
10. After sales service should be available regionally.

#### **10. Technical Specification of Central IV Manikin with Internal Jugular, Subclavian and Femoral access :**

1. It should enable the practice of IV access to the:Internal jugular vein, Subclavian vein and Femoral vein.
2. There should be palpable arterial pulsation.
3. Long catheters may be placed into the training model.
4. Realistic tissue simulation should be provided.
5. Both Neck Pad and Femoral Pad are to be replaceable without use of any tools.
6. The simulated veins inside the pads are to provide a natural resistance during puncture and a natural flashback of blood.
7. Both veins and skin are to self seal so that the site of puncture is not visible to the next student.
8. A carry case for easy transportation and storage is to be included.
9. Four neck pads and four femoral pads to be provided with each manikin.

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10. **Cost of consumables required for full functioning of the trainer** (Detailed list of consumables should be provided in technical bid)
  11. Warranty of 5 years followed by CMC for 5 years.
  12. The unit shall be capable of operating continuously in ambient temperature of 10 -50 deg C and relative humidity of 15-90%.
  13. Shall meet IE C-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility.
  14. Electrical safety norms: should be compatible with Indian electricity supply.
  15. Demonstration of equipment is must.
  16. After sales service should be available regionally.

### **11. Adult ALS Advanced Full Body Mannequin (Wi-Fi enabled) :**

#### **Essential Features**

1. Full Body adult manikin
2. Head tilt, chin lift & open the airway maneuvers should be possible.
3. It should have carotid pulse check & Chest rigidity should be adjustable to three levels so that different chest resistances can be simulated without dismantling whole mannequin.
4. The manikin should have integrated mechanical monitoring instrument that gives instant feedback on ventilation volume, stomach inflation, chest compression depth measurement and wrong hand positions should be visible from both foot and head end.
5. Defibrillation electrodes should be present so that user can be trained with all leading brands of defibrillators ( defibrillation as well as pacing)
6. Manikin should be used as Intubation Trainer also, for teaching intubation techniques with Laryngoscopes, Endo-Tracheal Tube, and Laryngeal Mask Airway & Combitube.
7. It should have IV arm helps to trained students insertion of cannulas, injection of medication and mechanical pulse measurement & IO leg for intra osseous training
8. Detailed test report in which all BLS & ACLS performances on manikin can be registered and facility of debriefing should be available.
9. Breathing sound & other basics sounds can be simulated with ease also should have option of loading users own individual sound files onto the manikin and to create user desired training algorithms.
10. Both CPR & ECG Curves should be displayed on screen, giving optimal Information at all times. With option to add user desirables ECG rhythms too.
11. It should have device/software for different types of rhythm generation
12. Representation of a realistic patient monitor with the following display options: 12 lead ECG, heart rate, blood pressure, oxygen saturation, capnography, values of which can be possible to amend per scenario.
13. Easy set-up of training module with all type of **mobile, PAD laptop (iOS or Android) without software**, independent of any specific platform and license. Should create its own wi - fi network and LAN connectivity.
14. Should come with Hard carry case with wheels for easy transportation and training
15. Should be European CE approved/ USFDA approved

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16. Electrical safety norms: should be compatible with Indian electricity supply
  17. Warranty of 5 years followed by CMC for 5 years
  18. The unit shall be capable of operating continuously in ambient temperature of 10 - 50 deg C and relative humidity of 15-90%
  19. Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility.
  20. Demonstration of equipment is must
  21. Should be ISO certified

#### **12. Technical Specifications of AED Trainer with Simulator :**

1. Manikin should be with realistic anatomical landmarks and lightweight adult CPR/AED trainer with all the essential features for adult CPR/AED learning.
2. Realistic feel when performing chest compressions with Vertical movement in the manikin's chest.
3. It should give feedback on chest compressions
4. Should allow for ventilation with mouth to mouth with facility of nose pinching, mouth to mask and pocket mask.
5. Natural obstruction of the airway should allows students to learn the important technique of opening the airway.
6. Head tilt/chin lift and jaw thrust allow students to correctly practice all maneuvers necessary when resuscitating a real victim.
7. Realistic airway functions- that the airway remains obstructed without proper head tilt/chin lift or jaw thrust.
8. Chest rise should be seen with correct ventilations
9. It should give feedback on correct placement of electrodes
10. Anatomically correct landmarks and sternal notch should allow the student to practice identification of all anatomical landmarks relevant to adult CPR.
11. Consumables: 6 sets of pads each for adult and pediatric to be provided with the equipment.
12. Demonstration is a must
13. Should be USFDA/ European CE approved
14. Warranty of 5 years followed by CMC of 5 years.
15. Electrical safety norms: should be compatible with Indian electricity supply.
16. Shall meet IEC – 60601 – 1 -2: 2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility.
17. The unit shall be capable of operating continuously in ambient temperature of 10 degree Celsius to 50 degree Celsius and relative humidity of 15% to 90%.
18. After sales service should be available regionally.

#### **13. Foreign body Trainer :**

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1. Mannequin should be life like adult torso with realistic anatomy and response using simulated boluses to provide instructors with a tool for instructing and practicing this lifesaving technique.
2. The mannequin should be Cast from a human specimen and Heimlich Abdominal Thrust Maneuver training with simulated food boluses should be possible.
3. The mannequin should be supplied with the following items –
  - a. 1 Adult Male Manikin Torso
  - b. 4 Simulated Boluses
  - c. 1 Bottle of Talcum Powder
  - d. 1 Tank Top
  - e. 1 Carry Case
  - f. Directions for Use

Warranty of 5 years followed by CMC of 5 years.

#### **14. Technical Specifications of Cervical Spine Anatomic Model :**

1. This Model features a detailed occipital cervical vertebral column, which is mounted on a sturdy white base.
2. Model weighs .55 lbs. Model measures 6” H X 3” W X 4” L (without stand).
3. Model measures 8” H X 4” W X 5” L (including stand).
4. Warranty of 5 years followed by CMC of 5 years.

#### **15. Technical Specifications of Flexible full Spine Model :**

1. Size: complete Spine model, standing Height 74.00cm approx
2. Fully flexible mounting throughout spine. Flexibly mounted for effective demonstration on a stand
3. Full pelvis and occipital plate
4. Spinal nerve exits
5. Cervical vertebral artery
6. Durable and of good quality
7. Demonstration is must
8. Warranty of 5 years followed by CMC of 5 years.

**16. Portable video laryngoscope :**

1. It should be a portable and light weight reusable monitor
2. It should be a common AAA battery-operated device with minimum one hour operational time and can be able to run on reusable batteries if required.
3. It should have automatic White Balancing (gain and exposure control) feature
4. It should have full colour TFT LCD Display with minimum 160° viewing angle
5. Display Screen should be minimum 2.4 inches
6. Monitor should have a LED Battery Status Indicator
7. It should have compatible Video-Out port for external monitor.
8. The reusable display should come packaged in a protective case.
9. The system should be provided channel and standard ( non-channelled )blades for adult patients
10. Equipment should have anti fog facility
11. Each Blades should be disposable.
12. The blade should be designed to provide minimal lifting of soft tissue and impact on teeth during laryngoscopy and intubation
13. Blades should be available in Channelled and Standard version.
14. Equipment should be supplied with 03 sets of all sizes of blades (both channelled and Standard)
15. Demonstration is a must.
16. Should be USFDA/ European CE approved
17. Warranty of 5 years followed by CMC of 5 years.
18. Shall meet IEC – 60601 – 1 -2: 2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility.
19. After sales service should be available regionally.

**17. Paracentesis Trainer :**

1. Landmark or ultrasound techniques can be practiced (side by side)
2. Internal echogenic anatomy should allow recognition of landmarks under ultrasound
3. Two 3.5 l3.5-literbers can be filled with water for drainage practice
4. Should have realistic tissue and needle response
5. Should have self-sealing pads to withstand up to 200 needle or up to 100 rocket catheter insertions
6. Should have ability to insert and remove drain
7. Should allow both supine and lying on side position
8. Skin surface should be washable using soap and water
9. Should be Latex free
10. Should be torso featuring bony landmarks and umbilicus

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### ***E-TENDER NOTICE FOR supply & installation of Skill Lab Equipment for GGS Medical College and Hospital***

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11. Internal anatomy should include:

- a. Liver
- b. Spleen
- c. Bowel
- d. Floating Bowel

12. Following Skills Should be Gained

- a) Familiarity with the abdominal regions and underlying anatomy
- b) Palpation of anatomical landmarks
- c) Identification of excess fluid
- d) Using ultrasound guidance, trainees can visualize the insertion site and check for vital organs beneath
- e) Insertion of needle into the peritoneal cavity for therapeutic or diagnostic purposes
- f) Professional-to-patient communication

**18. Technical Specification of Femoral access site mannequin:**

1. It should enable the practice of IV access to the Femoral vein by landmark/ultrasound guided.
2. There should be palpable arterial pulsation.
3. Long catheters may be placed in to the training model.
4. Realistic tissue simulation should be provided.
5. Femoral Pad are to be replaceable without use of any tools.
6. The simulated veins inside the pads are to provide a natural resistance during puncture and a natural flashback of blood.
7. Both veins and skin are to self seal so that the site of puncture is not visible to the next student.
8. A carry case for easy transportation and storage is to be included.
9. Four femoral pads to be provided with each manikin.
10. Warranty of 5 years followed by CMC for 5years.
11. The unit shall be capable of operating continuously in ambient temperature of 10 -50 deg C and relative humidity of 15-90%.
12. Shall meet IEC-60601-1-2:2001(or equivalent BIS) general requirements of safety for electromagnetic compatibility.



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13. Electrical safety norms: should be compatible with Indian electricity supply.
  14. Demonstration of equipment is must.
  15. After sales service should be available regionally.

#### **19. Technical Specification of Rhythm simulator :**

1. A battery powered ECG rhythm simulator which provides simulation of basic, modified and paediatric rhythms with the applicable pulse rate and strength.
2. Should have a total of 30 cardiac rhythms, 17 modified rhythms including Torsade de Pointes and 7 paediatric rhythms.
3. A hand held unit with the function key incorporated on the top panel. Every key (with the exception of the Paroxysmal and Change rhythm keys) should have an associated LED to indicate the status of its function.
4. Should be able to be used preferably with ALS adult and ALS Baby Trainer using link cable.
5. Simulator must also be able to be used as a stand-alone unit to provide ECG signals for display on any standard 3-lead ECG Monitor.
6. The ECG rhythms should be selected from dedicated controls on the keyboard.
7. Should work on mains power supply as well as rechargeable battery.
8. Must have Battery Low Indication.
9. Environmental Data-Temperature 10°C to 40°C , Humidity 15 to 90% RH.
10. Power Supplies- Power supply 9V from internal batteries -Batteries AA size (R6) 1.5V -Number of batteries 6-Capacity 2500mAh-Battery life time Approx. 12.5 hours
11. Physical Dimensions-Size 233x132x63mm approximately
12. Weight incl. batteries 0.5kg approximately
13. Accessory-carry case
14. Warranty of 5 years followed by CMC of 5 years.
15. Regional services should be available.
16. Demonstration is a must

**20 Technical Specifications of Defibrillator-cum-Monitor with External Pacing :**

1. Defibrillator should use low energy biphasic waveform for delivering shock energy & must have energy selection from 1-200J.
2. Can be applicable for use on mannequins also.
3. It should have AED as well as manual mode.
4. Should have facility to do ECG monitoring, transcutaneous pacing, defibrillation and synchronized cardioversion.
5. Must be capable of monitoring ECG through ECG cables, multiple function electrodes/pads & external paddles.
6. Unit should have adult & in-built paediatric external paddles & should be able to defibrillate both adult & paediatric patients.
7. Should work on mains as well as rechargeable battery.
8. Machine should be compact & portable within built rechargeable battery for at least 2 hour of continuous ECG monitoring.
9. It should have battery charge indicator.
10. Should have facility for self test.
11. It should have disarm facility.
12. Defibrillator should have pulse-oximetry and NIBP as integral part of unit( optional).
13. Should have user selectable alarm settings.
14. Should be supplied with following accessories.:
  - 1) Battery:1no.
  - 2) 5Lead ECG cable– 2 no.
  - 3) External defibrillator paddles (ped&adult)-1no.
  - 4) Multi-function defibrillator & monitoring pads/gelsheets –5perunit(adult and paed)
  - 5) SPO2 probe-finger probe one for adult and paediatrics per unit
  - 6) NIBP cuff for Adult and paediatrics - one per unit
15. Demonstration is a must.
16. Should be USFDA/European CE approved
17. Warranty of 5 years followed by CMC of 5 years.

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18. Electrical safety norms: should be compatible with Indian electricity supply.
19. Shall meet IEC–60601–1-2:2001(or equivalent BIS) general requirement so safety for electromagnetic compatibility.
20. The unit shall be capable of operating continuously in ambient temperature of 10degree Celsius to 50 degree Celsius and relative humidity of 15% to 90%.
21. After sales service should be available regionally.

**NOTE: -**

- All accessories like UPS / Stabilizer or any other which are required for machine should be supplied by the L1 bidder.
- Compliance report to be submitted in a tabulated and point-wise manner (as per technical specifications), clearly mentioning the page/ para number with authenticated catalogue / manual. Points not covered in the brochure must be specifically addressed in a separate certificate.
  - User list from Govt sector and good repute private hospitals should be provided.
  - Certificate (s) regarding standard in quality must be uploaded.
  - Expected delivery & Installation time: Within 45 days after issue of supply order.

# ***Baba Farid University of Health Sciences, Faridkot***

## ***E-TENDER NOTICE FOR supply & installation of Skill Lab Equipment for GGS Medical College and Hospital***

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### **TERMS AND CONDITIONS**

#### **FOR SUPPLY AND INSTALLATION of *SKILL LAB EQUIPMENT* REQUIRED AT GGS MEDICAL COLLEGE & HOSPITAL, FARIDKOT.**

#### **ELIGIBILITY**

- The sole manufacturers of equipments or their authorized agents/distributors may quote their rates.
  - In case of Authorized Supplier/Agency/Distributor, the Authorization Certificate as per the Format given at **Annexure-‘III’** should be uploaded.
  - In case the Tenderer is authorized dealer/supplier an undertaking/certificate issued by their Principle Manufacturer/Supplier that in case dealership/distributorship is withdrawn after supply then the Principle Manufacturer/Supplier will be responsible for Guarantee/Warranty/AMC/CMC. (**Annexure – ‘IV’**).
1. This institution reserves the right to reject tenders without assigning any reason and increase or decrease the quantity of the articles tendered.
  2. ***If the supply and installation*** is not made within the stipulated period then late delivery charges @**2%** will be imposed on the total amount of Supply Order up to delay of **30 days** and thereafter @ **4%** for another **30 days** after which Supply Order will be deemed cancelled & security/earnest money will be forfeited and company will be black-listed for future.
  3. Payment Terms: 80% Payment will be released after satisfactory Installation of the Equipment and balance 20% will be made after 60 days of the Installation and satisfactory working of the equipment.
  4. In-complete or conditional offers incorporating price variation will not be entertained.
  5. The firm should have been in existence for at- least **three years** and it should have turnover of **Rs.2,00,00,000/- per year**.
  6. The successful bidder shall deposit performance security @ 10% of the basic cost of the equipment/s in the shape of **Demand Draft only** and will be returned after receipt of CAMC security.

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# ***Baba Farid University of Health Sciences, Faridkot***

## ***E-TENDER NOTICE FOR supply & installation of Skill Lab Equipment for GGS Medical College and Hospital***

### **Annexure-I**

#### **TECHNICAL BID COMPLIANCE STATEMENT**

Name and Address of the applicant / firm \_\_\_\_\_

Specify whether Manufacturer/Dealer/Distributor: \_\_\_\_\_

<b>Sr. No.</b>	<b>Particulars</b>	<b>Remarks</b>
1.	Tender Fee of <b>Rs.2360/-</b> through Online Mode only on or before due date.	Yes/No
2.	Tender Processing fee charged by Punjab Govt. as per their norms. (Non-refundable).	Yes/No
3.	Earnest Money as mentioned, in favor of Registrar Baba Farid University of Health Sciences, Faridkot through online mode only.	Yes/No
4.	Technical Bid Compliance Proforma uploaded ( <b>Annexure-I</b> ).	Yes/No
5.	Whether an affidavit regarding Non-Black listing as per proforma given at <b>Annexure-II</b> duly attested by an Executive Magistrate or a Notary Public uploaded.	Yes/No
6.	In case the bidder is Authorized Supplier/Agency, the Authorization Certificate as per the Format given at <b>Annexure-‘III’</b> uploaded.	Yes/No
7.	In case the Tenderer is Authorized Supplier/Agency, an undertaking/certificate issued by their Principle Manufacturer/Supplier that in case dealership/distributorship is withdrawn after supply then the Principle Manufacturer/Supplier will be responsible for Guarantee/Warranty/AMC/CMC ( <b>Annexure – ‘IV’</b> ) uploaded.	Yes/No
8.	Details of Bank Account for refund of EMD ( <b>Annexure – V</b> ) uploaded.	Yes/No
9.	Price Bid in the prescribed format in Excel Sheet ( <b>Annex – VI</b> ) uploaded.	Yes/No
10.	Copy of Certificate of Registration for service Tax/TIN/TAN/PAN uploaded.	Yes/No
11.	A certificate from C.A. regarding Annual Turnover with Balance Sheet for the last 3 (three) financial years i.e. 2018-19, 2019-20 and 2020-21 uploaded.	Yes/No
12.	Copy of the IT Returns for three financial i.e. 2018-19, 2019-20 and 2020-21 uploaded	Yes/No
13.	Certificate regarding standard in quality <b>as per required in specifications</b>	Yes/No
14.	Compliance sheet, point wise, as per specifications uploaded	Yes/No
15.	E-mail ID	

**Signature & seal of bidder**

**Place:**

**Date :**

**Note:** Please upload Catalogue/Brochure/Pamphlets with complete specifications of quoted model only.

***Baba Farid University of Health Sciences, Faridkot***

***E-TENDER NOTICE FOR supply & installation of Skill Lab Equipment for GGS Medical College and Hospital***

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**Annexure-II**

**(To be furnished on non-judicial stamp paper worth Rs.100/- duly attested by Executive Magistrate or Notary Public).**

**AFFIDAVIT**

I/We \_\_\_\_\_  
partner/sole proprietor (Strike out which is not applicable) of (Name & Address of Firm)  
\_\_\_\_\_ do hereby declare and solemnly affirm:-

- a) That the individual/firm/ companies are **not debarred or black- listed** by any department of Union/ State Government or any autonomous institute.
- b) That no partner or shareholder, directly or indirectly connected with the applicant who has been debarred or blacklisted by any department of Union Govt./State Govt./Autonomous Institute.
- c) And that the terms and conditions for supply and Installation of Equipments at GGSMCH, Faridkot, are acceptable to me/us. I/We shall abide by them in letter and spirit.

Date:

Place:

DEPONENT

**VERIFICATION**

I/We do hereby solemnly declare and affirm that the above declarations are true and correct to the best of my/our knowledge and beliefs. No part of it is false and nothing has been concealed therein.

Date:

Place:

DEPONENT

***Baba Farid University of Health Sciences, Faridkot***

***E-TENDER NOTICE FOR supply & installation of Skill Lab Equipment for GGS Medical College and Hospital***

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**Annexure- III**

**MANUFACTURER’S/PRINCIPAL AUTHORIZATION FORM**

TO

The Registrar  
Baba Farid University of Health Sciences,  
Faridkot -151203

**Ref. No.**.....

**Dated:**

**Sub: Authorization Certificate in favour of M/s..... for supply of ..... (Name of equipment)**

We, M/s....., who are established and reputable manufacturers of .....(name of equipment) having factory(ies) at ..... and ....., hereby authorize M/s.....(name and address) to bid, negotiate and conclude the Tender formalities with you against Tender No..... for the above equipment(s) manufactured by us.

No company or firm or individual other than M/s..... are authorized to bid, negotiate and conclude the tender formalities in regard to this business against this specific tender.

We, hereby extend our full guarantee and warranty as per the conditions of tender for the goods offered for supply against this tender by the above firm.

Yours faithfully,

(Name)

For and on behalf of M/s.....  
(name of manufacturer/Principal)

**Note: This letter should be signed by a person competent and having authority to sign on behalf of manufacturer, and should be on manufacturer Letter Head and same will be uploaded with Technical Bid.**

***Baba Farid University of Health Sciences, Faridkot***

***E-TENDER NOTICE FOR supply & installation of Skill Lab Equipment for GGS Medical College and Hospital***

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**Annexure - IV**

**UNDERTAKING BY MANUFACTURER/PRINCIPAL SUPPLIER**

TO

The Registrar  
Baba Farid University of Health Sciences,  
Faridkot -151203

**Ref. No.....**

**Dated:**

**Sub: Undertaking for after sales service**

We, M/s....., who are established and reputable manufacturers of .....(name of equipment) have authorized M/s.....(name and address) to bid, negotiate and conclude the Tender formalities with you against Tender No..... for the above equipment(s).

Further, we undertake that in case dealership/distributorship is withdrawn after supply of equipment then we shall be responsible for after sales service till the date of guarantee/warranty of the equipment and afterwards for a period of 10 years.

Yours faithfully,

(Name)

For and on behalf of M/s \_\_\_\_\_  
(name of manufacturer/Principal)



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***E-TENDER NOTICE FOR supply & installation of Skill Lab Equipment for GGS Medical College and Hospital***

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**Annexure- V**

**Details of Bank Account of the firm who has deposited EMD**

Name of the firm: \_\_\_\_\_

<b>Sr. No.</b>	<b>Particulars</b>	<b>Detail</b>
1.	Account No.	
2.	Name of Bank	
3.	Branch Name	
4.	IFSC Code of Bank	
5.	Name of Operator	

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**ANNEXURE - VI**

**PRICE BID**

**TO BE UPLOADED in Printed/Computerized format in Excel Sheet Attached for all Equipments.**