



OFFICE OF THE PLANNING, PROCUREMENT & LOGISTICS OFFICER

SHAHEED MOHTARMA BENAZIR BHUTTO

MEDICAL UNIVERSITY LARKANA - SINDH- PAKISTAN.

Phone: +92-74-9410912, E-mail: suhail.abbasi@smbbmu.edu.pk

No. SMBBMU/PPLO/2017/151

Dated: October 17, 2017

To,

✓
The Managing Director,
Sindh Public Procurement Regulatory Authority,
Government of Sindh, Karachi.

SUBJECT: **REQUEST FOR THE PUBLICATION OF BID EVALUATION REPORT (BER) FOR TENDER TITLED "ESTABLISHMENT OF CENTRE OF INNOVATION IN MEDICAL EDUCATION (CIME) AT SHAHEED MOHTARMA BENAZIR BHUTTO MEDICAL UNIVERSITY, LARKANA. TENDER # ME/08/2017-18.**

Reference: SPPRA website ID # 33891.

The Competent Authority has approved the Bid Evaluation Report of the subject tender. Please find enclosed the complete Bid Evaluation Report along with all necessary documents in **original** for uploading it on your website.

2. In this regard, I would request you to kindly direct the concerned person to upload Bid Evaluation Report along with all related document on your website.

Suhail
17/10/2017
Planning, Procurement & Logistics Officer

Copy for information:

- i. The Registrar, SMBB Medical University, Larkana.
- ii. Webmaster, SMBBMU, Larkana (*with request to upload it on university website*).
- iii. PS to Vice Chancellor, SMBB Medical University, Larkana.
- iv. M/S. Shah Co.
- v. M/S. Iqbal & Company.
- vi. M/S. Khalid Corporation.
- vii. M/S Prodigy Healthcare Technologies.
- viii. M/S Mediland Pakistan.
- ix. M/S Biotech Pakistan.
- x. Office Copy.

SPPRA INWARD DIARY
NO: 1952
DATED: 19-10-17



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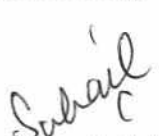
MINUTES OF THE MEETING


Meeting of the Procurement Committee was held on 01-08-2017 for the opening of the Technical Bids of the tender titled "Establishment of Centre of Innovation in Medical Education (CIME) at Shaheed Mohtarma Benazir Bhutto Medical University, Larkana" Tender # ME/08/2016-17 at Syndicate Hall, CMC, Shaheed Mohtarma Benazir Bhutto Medical University, Larkana. Following Procurement Committee members attended the meeting (Attendance Sheet enclosed):


S. #	Name of the Participant	
01	Prof. Dr. K. Das, Professor of Surgery, SMBB Medical University, Larkana.	Chairman
02	Dr. Asadullah Makhdoom, Associate Professor Director SKILL LAB LUMHS, Jamshoro.	External Member
03	Dr. Mansoor Hyder (PhD) Associate Professor ITC Director (C&NS) SAU, Tandojam.	External Member
04	Mr. Sarfraz Ahmed Tunio, Accounts Officer, SMBB Medical University, Larkana.	Member
05	Suhail Ahmed Abbasi Planning, Procurement & Logistics Officer, SMBB Medical University, Larkana.	Member & Secretary


Meeting was started with recitation from the Holy Quran. The Chairman of the Procurement Committee welcomed all the members and participated bidders. The Tender Box was opened at 11:00am in front of the committee & participants of the bid. The Committee opened the sealed envelopes of only Technical Bids.


The meeting ended with the vote of thanks to and from the Chair.

Member & Secretary

Suhail Ahmed Abbasi

Member of PC

Mr. Sarfraz Ahmed Tunio

External Member of PC

Dr. Mansoor Hyder

External Member of PC

Dr. Asadullah Makhdoom

Chairman PC

Prof. Dr. K. Das



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PROCUREMENT COMMITTEE

ATTENDANCE SHEET

The Committee meeting held on 01-08-2017 at 10:45am for the opening of Technical Bids of the tender titled “Establishment of Centre of Innovation in Medical Education at Shaheed Mohtarma Benazir Bhutto Medical University, Larkana” Tender No. ME/05/2017-18.

Location: Syndicate Hall, CMC at SMBBMU, Larkana.

S. #	Name & Designation	Signature
01	Prof. Dr. K. Das Professor of Surgery SMBBMU, Larkana. Chairman	
02	Dr. Asadullah Makhdoom, External Member Associate Professor/ Director Skill Lab LUMHS, Jamshoro.	
03	Dr. Mansoor Hyder, External Member Associate Professor ITC, Director (C&NC), SAU, Tandojam.	
04	Mr. Sarfraz Ahmed Tunio, Member Accounts Officer, SMBBMU, Larkana.	
05	Suhail Ahmed Abbasi Member Planning, Procurement & Logistics Officer, SMBBMU, Larkana.	 Suhail 1/8/2017



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ATTENDANCE SHEET OF THE PARTICIPANT OF BIDDERS/REPRESENTATIVES.
Tender Opening (Technical Proposal) August 1, 2017 Time: 11:00 am.

Name of Tender: Establishment of Centre of Innovation in Medical Education SMBB Medical University, Larkana. Tender No.
ME/05/2017-18. SPPRA Website Serial ID # 33891

S. #	Company/Firm Name	Tender Fees Pay Order No.	Signature	Remarks if any & cell number
01	M/S Sybil and Co	-		0313-3097157
02	M/S Prodigy Healthcare Technologies			0342-2361132
03	M/S Biotech Pakistan			0313-2427794
04	M/S ShahCO			0301-2617351

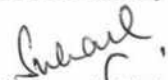
Subail
11/8/17

Technical Qualification Report

- a) Total Point for Technical Proposal 100
 b) Minimum Qualifying Percentage is 75%

S#	Description	Marks	M/S Iqbal & Co.	M/S Prodigy Health Care Technologies	M/S SHAH Co.	M/S Biotech Pakistan	M/S Mediland Pakistan	M/S Khalid Corporation
			Points Obtained	Points Obtained	Points Obtained	Points Obtained	Points Obtained	Points Obtained
3.1	Major Installation & Maintenance Experience	20	00	00	00	12	04	00
3.2	Submission of design/3D drawings along with Project Execution Plan.	20	00	00	00	20	04	00
3.3	Financial Status of the Firm	12	12	02	12	12	10	07
3.4	Technical Engineering Capacity	20	20	00	00	20	04	00
3.5	Workshop Services	12	12	00	00	12	05	00
3.6	Spare part and Backup for installed base inventory	08	08	00	00	07	08	00
3.7	Management Systems (Service records/Installed based management/ other) in place.	08	08	00	00	04	08	00
Total Points Obtained		100	60	02	12	87	43	07


Member & Secretary


 Suhail Ahmed Abbasi
 Planning, Procurement & Logistics Officer
 SMBB Medical University, Larkana

Member of PC


 Sarfraz Ahmed Tunio
 Accounts Officer
 SMBB Medical University, Larkana

External Member of PC


 Dr. Mansoor Hyder (PhD-Germany),
 Associate Professor ITC
 Director (C&NS)
 SAU, Tandojam.

External Member of PC


 Dr. Asadullah Makhdoom,
 Associate Professor/Director, Skill Lab
 LUMHS, Jamshoro.

Chairman PC


 Prof. Dr. K. Das,
 Professor of Surgery
 SMBB Medical University, Larkana.

Method and procedure of procurement: National Competitive Bidding (Single Stage – Two Envelope)

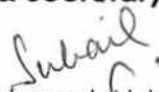
Description of Tender: Establishment of Centre of Innovation in Medical Education (CIME) at Shaheed Mohtarma Benazir Bhutto Medical University, Larkana.

BIDDERS' ELIGIBILITY/ QUALIFICATION REPORT


Eligibility/ Qualification Criteria:

s. #	Eligibility / Qualification Criteria	M/S Iqbal & Co.	M/S Prodigy Health Care Technologies	M/S Shah Co.	M/S Biotech Pakistan	M/S Mediland Pakistan	M/S Khalid Corporation
1	NTN	Yes	Yes	Yes	Yes	Yes	Yes
2	Sales Tax Registration Certificate	Yes	Yes	Yes	Yes	Yes	Yes
3	Registration with Sindh Revenue Board (SRB)	Yes	No	Yes	Yes	Yes	No
	Qualification Criteria:						
4	Minimum three years' experience of relevant field. (i.e. Human Patent Simulators)	No	No	Yes	Yes	Yes	No
5	Turnover of at least last three years	Yes	No	Yes	Yes	Yes	No
6	Bid is signed, named and stamped by the authorized person of the firm along with Authorization letter.	Yes	Yes	No	Yes	Yes	Yes
7	Technical Points Obtained	60	02	12	84	43	05
8	Supplier Questioner Points	2	0	0	50	0	0
	Qualified/ disqualified	Disqualified	Disqualified	Disqualified	Qualified	Disqualified	Disqualified

Member & Secretary


Suhail Ahmed Abbasi
Planning, Procurement & Logistics Officer
SMBB Medical University, Larkana


Member of PC


Sarfraz Ahmed Tunio
Accounts Officer
SMBB Medical University, Larkana


External Member of PC


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Associate Professor ITC
Director (C&NS)
SAU, Tandojam.

External Member of PC


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Associate Professor/Director, Skill Lab
LUMHS, Jamshoro.

Chairman PC


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SMBB Medical University, Larkana.



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SPPRA Website ID # 33891

Tender # ME/05/2017-18

Method and procedure of procurement:

National Competitive Bidding (Single Stage – Two Envelope)

Tender Titled:

Establishment of Centre of Innovation in Medical Education at Shaheed Mohtarma Benazir Bhutto Medical University, Larkana.

MINUTES OF THE FINANCIAL BID OPENING MEETING

The meeting of the Procurement Committee for the tender titled “Establishment of Centre of Innovation in Medical Education at Shaheed Mohtarma Benazir Bhutto Medical University, Larkana” was held on **September 5, 2017 time 10:00am** at the Office of Planning, Procurement & Logistics Officer for the opening of the Financial Bid of the Technically Qualified Bidder. The meeting was attended by the following members of the Procurement Committee (*Attendance sheet of the PC enclosed*)

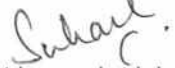
S. #	Name of the Participant	
01	Prof. Dr. K. Das, Professor of Surgery, SMBB Medical University, Larkana.	Chairman
02	Dr. Asadullah Makhdoom, Associate Professor Director SKILL LAB LUMHS, Jamshoro.	External Member
03	Dr. Mansoor Hyder (PhD-Germany) Associate Professor ITC Director (C&NS) SAU, Tandojam.	External Member
04	Mr. Sarfraz Ahmed Tunio, Accounts Officer, SMBB Medical University, Larkana.	Member
05	Suhail Ahmed Abbasi Planning, Procurement & Logistics Officer, SMBB Medical University, Larkana.	Member & Secretary

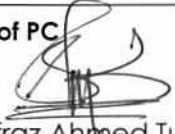
The Financial Bids were opened at **10:00am** in the presence of representative of the technically qualified bidder and the rates quoted by bidders were read aloud and encircled by Chairman of the Procurement Committee. All the members of the Procurement Committee signed each and every page of Financial Proposal/ Bid. The bid does not contain any over-writing or cutting. Following is the details of bids announced:

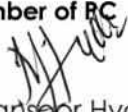
S. #	Name of Bidder	Offered Price	Amount of Bid Security	Pay Order No./ Date
1	M/S BIOTECH Pakistan	Rs. 147,528,814/-	Rs. 4,426,000/-	PO # 01608504 July 31, 2017

The committee have examined all the bids as per the Qualification/ Eligibility criteria provided in the bidding documents, arithmetical checked and verified the documents. The 3% of the total amount has been submitted by the technically qualified bidder as a Bid Security.

The meeting ended with the vote of thanks to and from the chair.

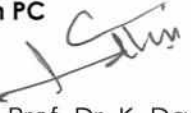
Member & Secretary

Suhail Ahmed Abbasi

Member of PC

Mr. Sarfraz Ahmed Tunio

External Member of PC

Dr. Mansoor Hyder

External Member of PC

Dr. Asadullah Makhdoom

Chairman PC

Prof. Dr. K. Das



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ATTENDANCE SHEET OF THE PARTICIPANT OF BIDDERS/REPRESENTATIVES.
Tender Opening (Financial Proposal) September 5, 2017 Time: 10:00 am.

Name of Tender: Establishment of Centre of Innovation in Medical Education SMBB Medical University, Larkana. Tender No.
ME/05/2017-18. SPPRA Website Serial ID # 33891

S. #	Company/Firm Name	Tender Amount	Bid Security	Signature	Remarks
01	M/S BIOTECH Pakistan	Rs. 147.6 M	Rs. 4.426 M		

Member & Secretary

Suhail Ahmed Abbasi
Planning, Procurement & Logistics Officer
SMBB Medical University, Larkana

Member of PC

Sarfraz Ahmed Tunio
Accounts Officer
SMBB Medical University, Larkana

External Member of PC

Dr. Mansoor Hyder (PhD-Germany),
Associate Professor ITC
Director (C&NS)
SAU, Tandojam.

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PROCUREMENT COMMITTEE

ATTENDANCE SHEET

The Committee meeting held on 09-05-2017 at 10:00am for the opening of Financial Bids of the Technical Qualified Bidder of the tender titled “Establishment of Centre of Innovation in Medical Education at Shaheed Mohtarma Benazir Bhutto Medical University, Larkana” Tender No. ME/05/2017-18.

Location: *Office of the Planning, Procurement & Logistics Officer.*

S. #	Name & Designation	Signature
01	Prof. Dr. K. Das Professor of Surgery SMBBMU, Larkana. Chairman	
02	Dr. Asadullah Makhdoom, Associate Professor/ Director Skill Lab LUMHS, Jamshoro. External Member	
03	Dr. Mansoor Hyder, Associate Professor ITC, Director (C&NC), SAU, Tandojam. External Member	
04	Mr. Sarfraz Ahmed Tunio, Accounts Officer, SMBBMU, Larkana. Member	
05	Suhail Ahmed Abbasi Planning, Procurement & Logistics Officer, SMBBMU, Larkana. Member	 Suhail 5/9/2017

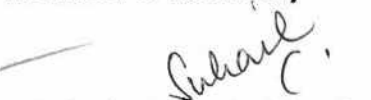


BID EVALUATION REPORT

1. Name of Procuring Agency : **Shaheed Mohtarma Benazir Bhutto Medical University, Larkana.**
2. Tender Reference No. : **ME/05/2017-18, INF/KRY/3319/2017**
3. Name of Tender : **Establishment of Centre of Innovation in Medical Education Shaheed Mohtarma Benazir Bhutto Medical University, Larkana.**
4. Method of Procurement : **Single Stage- Two envelop procedure.**
5. Tender Published : **Daily Dawn, Daily Kawish on 6th July 2017, Daily Jung 7th July 2017, SPPRA Website ID # 33891.**
6. Corrigendum : N/A
7. Total Bid Document Sold : **Five (07)**
8. Total Bids Received : **Four (06)**
9. Technical Bid Opening Date : 01-08-2017 @ 11:00 am
10. No. of Bid Technical Qualified : **One (01)**
11. Bid (s) Technically Disqualified : **Five (05).**
12. Financial Bid Opening Date : **September 05, 2017 @ 11:00 am**
13. Bid Evaluation Report.

S.#	Name of Firm or Bidder	Cost offered by the Bidder	Ranking in terms of cost	Comparison with Estimated cost	Reasons for acceptance/ rejection	Remarks
0	1	2	3	4	5	6
1.	M/S BIOTECH Pakistan	Rs. 147,528,814.00	Not Applicable	1.744% Higher	Fulfilling all requirements of eligibility criteria as per tender documents.	Recommended for the award of contract.

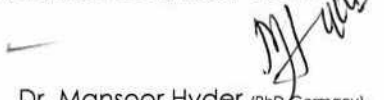
Member & Secretary


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Planning, Procurement & Logistics Officer
SMBB Medical University, Larkana

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External Member of PC


Dr. Mansoor Hyder (PhD, Germany),
Associate Professor ITC
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Dr. Asadullah Makhdoom,
Associate Professor
Director (SKILL LAB)
LUMHS, Jamshoro.

Chairman PC


Prof. Dr. K. Das,
Professor of Surgery
SMBB Medical University, Larkana



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COMMERCIAL OFFER


Establishment of Centre of Innovation in Medical Education (CIME) SMBB Medical University, Larkana.


Financial Bid Opening Date: 05-09-2017 at 10:00am.

M/S BIOTECH Pakistan					
S#	ITEM CODE	DESCRIPTION	QTY	UNIT PRICE DDP IN PAK RS	TOTAL PRICE DDP IN PAK RS
EMRGENCY/LIFE SUPPORT ALS/BLS					
01	HALS1000	<u>TETHERLESS PATIENT SIMULATOR</u> GENERAL <ul style="list-style-type: none">▪ Available in ethnic skin tones▪ Powered from an internal rechargeable battery or wall outlet▪ Simulator receives commands from a wireless tablet PC and operates at distances up to 300 meters▪ Use pre-programmed scenarios, modify them or create your own quickly and easily▪ Installation and training worldwide AIRWAY <ul style="list-style-type: none">▪ Programmable airway: tongue edema, laryngospasm, and pharyngeal swelling▪ Multiple upper airway sounds synchronized with breathing▪ Right mainstream intubation▪ Sensors detect depth of intubation▪ Placement of conventional airway adjuncts▪ Endotracheal intubation▪ Retrograde intubation	01	4,655,604.80	4,655,604.80

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		<ul style="list-style-type: none"> ▪ View vocal cords with Sellick maneuver ▪ Realistic surgical trachea allows tracheostomy or needle cricothyrotomy <p>BREATHING</p> <ul style="list-style-type: none"> ▪ Control rate and depth of respiration and observe chest rise ▪ Select independent lung sounds: upper right front and back; upper left front and back; lower right front and back; lower left front and back ▪ Chest rise and lung sounds are synchronized with selectable breathing patterns ▪ CO2 on exhalation (4 levels) using replaceable cartridge mounted inside the simulator ▪ Attach to real mechanical ventilators ▪ Bilateral chest rises and fall ▪ Unilateral chest rise simulates pneumothoraxes ▪ Anterior and posterior auscultation sites ▪ Bilateral needle decompression at second intercostal ▪ Dynamic Airway and Lung compliance/ resistance • Ten levels of static compliance, 15-50 ml/ cm H2O • Ten levels of airway resistance • Holds PEEP from 5 to 20 cmH2O • Exhales real and measurable CO2 • Vary lung mechanics throughout scenario • Receive real time feedback from real mechanical ventilator • Capable of assisting the ventilator at variable respiratory rate. • Compliance and resistance can be varied while connected to the ventilator. <p>CARDIAC</p> <ul style="list-style-type: none"> • ECGs are generated in real time with physiologic variations never repeating textbook patterns • Heart sounds may be auscultated and are synchronized with ECG • View dynamic rather than static 12 lead rhythms • 12 Lead ECG with integrated MI model <p>CIRCULATION</p> <ul style="list-style-type: none"> • Central cyanosis • Measurable blood pressure by auscultation or automatic NIBP monitor • Korotkoff sounds audible between systolic and diastolic pressures • Monitor oxygen saturation using your real native oximeter • Pulse sites synchronized with BP and heart rate • Bilateral IV arms with fill/drain sites 			
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		<ul style="list-style-type: none"> • SubQ and IM injection sites • Intraosseous access at tibia • ECG monitoring using real devices • Defibrillate, cardiovert and pace using real devices • Multiple heart sounds, rates and intensities • ECG rhythms are generated in real time • Bilateral carotid, radial, brachial, femoral, popliteal and pedal pulses synchronized with ECG • Pulses vary with blood pressure, are continuous and synchronized with the ECG even during a paced rhythm <p>INSTRUCTOR OR AUTOMATIC MODE</p> <ul style="list-style-type: none"> • Vital signs are generated in real time • Drug library with medications • Use of medications change conditions in real time mimicking real clinical situations <p>DRUG RECOGNITION SYSTEM</p> <ul style="list-style-type: none"> • Identifies drug type and volume injected into veins of the right hand and forearm • Supplied with 100 syringes having wireless tags • Use drugs from library or choose to model other drugs using software template <p>NEURAL RESPONSES</p> <ul style="list-style-type: none"> • Eyes are controlled automatically by physiologic model or directly by the instructor • Select pupillary response to light <p>SPEECH</p> <ul style="list-style-type: none"> • Create and store vocal responses in any language • Wireless streaming audio <p>VITAL SIGNS MONITOR</p> <ul style="list-style-type: none"> • Controlled via wireless tablet PC • Use selected configuration or create your own configuration to mimic the real monitors used in your facility • Share images such as ultrasounds, CT scans, lab results • Touchscreen control • Monitor can be configured by the instructor to suit the scenario 			
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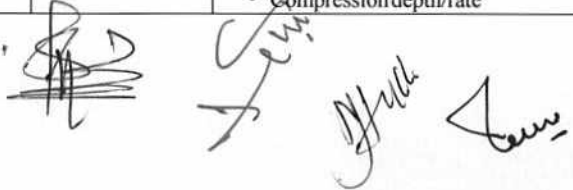
		<p>ARTICULATION AND MOVEMENT</p> <ul style="list-style-type: none"> • Realistic joint articulation • Supports supine, prone, recumbent, and sitting positions • Seizure/convulsions <p>OTHER</p> <ul style="list-style-type: none"> • Interchangeable male/female genitalia for Foley catheterization • Insert feeding tubes • Auscultate bowel sounds <p>USER INTERFACE</p> <ul style="list-style-type: none"> • Manual and Automatic Operating Modes • Scenario designer • Preprogrammed scenario library • ECPR™ – Real-time monitor and trainer • 12-Lead ECG designer and MI model • Medication library with editor • Time stamped event logging • Control View Replay (Monitoring manikin) <p style="text-align: center;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>			
02	S3040.100.M	<p><u>TRAUMA SIMULATOR</u></p> <p>The Trauma Simulator must be rugged and resilient human for teaching care on the battlefield, or intense traumatic situations. Must be proven by independent testing in hot and cold conditions; wet and dry environments. Control tablet must work in a distance up to 300 meters.</p> <p>ANATOMY AND CONNECTIVITY</p> <ul style="list-style-type: none"> • Full body adult 70 inches (178 cm) / 88 lbs. (40 kg) • Rugged shoulder and hip joints allow dragging and carrying • Splash proof for CBRNe water spray decontamination • Self-contained design; all operating components and blood reservoirs stored inside the body • Wireless and tether less control; at distances of up to 900ft. • Fully operational on battery power for up to 10hrs (AC power supported) • Interchangeable trauma/healthy lower arms and legs 	01	10,211,245.00	10,211,245.00

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		<ul style="list-style-type: none"> • Designed for fast scenario resets with automatic self-refilling reservoir system • Ruggedized for outdoor climate <p>NEUROLOGIC</p> <ul style="list-style-type: none"> • Blinking eyes with reactive pupils. • Software controlled fluid secretion at ears, eyes, and mouth • Mild and severe convulsions • Wireless streaming audio; be the voice of Trauma HAL and hear responses at distances up to 150 ft. • Library of prerecorded responses • Programmable custom verbal responses in any language <p>AIRWAY</p> <ul style="list-style-type: none"> • Head tilt/chin lift • NASO/orotracheal intubation: ETT, LMA, King LT • Retrograde intubation • Fiber optic intubation • Programmable difficult airway: tongue edema and pharyngeal swelling • Laryngospasm with tight seal preventing intubation • Surgical airway for cricothyrotomy, tracheotomy, and tracheal hook exercises • Supports suctioning liquids from the airway and lungs • Visible gastric distention with esophageal intubation <p>BREATHING</p> <ul style="list-style-type: none"> • Visible chest rises with BVM • Ventilation detection • Shallow and deep needle decompression with audible hiss and needle placement detection up to 3.25in. • Unilateral chest rises and right mainstream intubation • Spontaneous chest rises and fall with normal and abnormal respiratory patterns • Selectable anterior lung sounds • Bilateral chest tube insertion <p>CPR</p> <ul style="list-style-type: none"> • Real-time CPR performance monitoring • Time to CPR • Compression depth/rate 			
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Subcard


		<ul style="list-style-type: none"> • Chest recoil • Compression interruptions • Ventilation rate • Excessive ventilation • Time to defibrillation • Smart CPR voice coach • Real end-tidal CO2 • Durable chest recoil design <p>CIRCULATION</p> <ul style="list-style-type: none"> • Programmable cyanosis • Measure blood pressure using a real blood pressure cuff • Detectable oxygen saturation using real OSAT monitors • Antecubital IV access • Bilateral carotid, radial, brachial (antecubital fossa), femoral, popliteal, and pedal pulses • Blood pressure dependent pulses • Sternal I/O infusion supports F.A.S.T.1 • Tibia I/O access • Bilateral deltoid and quadriceps IM injection sites <p>DIGESTIVE</p> <ul style="list-style-type: none"> • Internal fluid bladder with male genitalia for catheterization • Bowel sounds in four quadrants <p>CARDIAC</p> <ul style="list-style-type: none"> • Selectable normal and abnormal heart sounds • Preprogrammed ECG rhythm library with customizable variations • 12-lead ECG monitoring using real equipment • Defibrillation and pacing using real energy <p>TRAUMA</p> <ul style="list-style-type: none"> • Quadruple trauma limbs: Interchangeable trauma lower arms and legs included • Bleeding axilla and groin wounds detect applied pressure • Trauma site arterial bleeding synched with heart rate and blood pressure • Blood pressure control bleeding rate • Arm and legs tourniquet sensors 			
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Subair

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		<ul style="list-style-type: none"> • Pressure on femoral artery reduces or stops distal bleeding in leg • On-board 1.5 Lt. blood reservoir • Automatic self-refilling reservoir system • On-screen blood loss monitor and reservoir level <p>PACKAGE MUST INCLUDE</p> <ul style="list-style-type: none"> • Wireless tablet PC, protective “bump” case, and software license • RF Communications Module • Battery charger/Power supply • L/R Healthy lower arms and legs • L/R Trauma lower arms and legs • Axilla and groin wound inserts • Replacement surgical tracheas • Soft carrying case • Hands-free blood refill bag • User Manual <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>			
03	S300.100	<p><u>ADULT ADVANCED LIFE SUPPORT TRAINING SIMULATOR</u></p> <p>Unit should teach ALS skills using realistic code scenarios. Software provided should provide important feedback by monitoring and recording each step of treatment: choice of treatment, amount of time you perform each vital function, and quality of intervention.</p> <p>ANATOMY</p> <ul style="list-style-type: none"> • Full-body, adult male patient simulator • Articulated neck, jaw, arms, and legs • Demonstrates head-tilt, and jaw thrust. • Eye lids can be opened or closed • Palpable landmarks including ribs and xiphoidal process <p>AIRWAY</p> <ul style="list-style-type: none"> • Realistic Airway with tongue, visible vocal cords, trachea, and esophagus • Programmable airway sounds synchronized with respiratory rate • Perform Sellick’s maneuver • Perform Bag Valve Mask ventilations 	01	2,154,301.60	2154301.60

Subpart C.   

		<ul style="list-style-type: none"> • Supports oral and nasal intubation • Sensors detect and log endotracheal tube placement in the airway • Log individual or team participants' actions • Create, save, and print performance reports for debriefing <p>CARDIAC</p> <ul style="list-style-type: none"> • Chest Compressions are measured and logged • Compressions generate palpable pulses • Defibrillate and pace using real devices • Programmable heart sounds synchronized with ECG • Program and monitor dynamic ECG rhythms using real monitor <p>CIRCULATORY</p> <ul style="list-style-type: none"> • Automatic pulses generated by internal compressor • Pulses synchronized with ECG • Carotid (Bilateral) • Brachial • Radial • Femoral (Bilateral) • Take Blood Pressure with included cuff • Auscultate Korotkoff sounds • Palpate pulse • Intraosseous access at right tibia • Intravenous Training Arm • Detect placement of pulse oximeter • Intramuscular injection sites • Bilateral Deltoids • Bilateral Quadriceps <p>BREATHING</p> <ul style="list-style-type: none"> • Spontaneous breathing generated by internal compressor • Programmable chest rises and fall • Bilateral lung expansion with bag ventilation • Unilateral chest rises with right main stem intubation • Programmable lung sounds synchronized with respiratory rate 			
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		<ul style="list-style-type: none"> • Programmable Cyanosis <p>REAL-TIME CPR FEEDBACK</p> <ul style="list-style-type: none"> • Monitor CPR quality metrics in real-time • Time to CPR • Compression Depth/Rate • Chest Recoil • Compression Interruptions • Ventilation Rate • Excessive Ventilation • Time to Defibrillation <p>GASTRO-INTESTINAL</p> <ul style="list-style-type: none"> • Practice placement of esophagus/gastric suctioning devices • Gastric distension with excessive BVM ventilation <p>SIMULATOR CONTROL SOFTWARE</p> <ul style="list-style-type: none"> • Powerful and intuitive software with active 3D patient animation • Edit or create your own scenarios • Remains fully functional even in transit <p>COMMUNICATION AND POWER</p> <ul style="list-style-type: none"> • Control the simulator from the laptop via included 15' cable • Powered from internal battery or wall outlet • Run simulations for up to 6 hours on the battery power • Code Blue III Adult • Laptop with Controller Software* (includes 15" Communications Cable) * • Modified Blood Pressure Cuff • Replacement Intraosseous Bones (7) • IV Filling Kit • Charger • Instruction Manual • 20 Inch All-in-One Touch Screen Patient Monitor • 12 Lead ECG • CO2 Exhalation 			
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Included
Setup
Apple
Case

		MANUFACTURER: GAUMARD SCIENTIFIC, USA			
04	S152	<p><u>PEDIATRIC BLS SIMULATOR TORSO WITH CONTROLLABLE TABLET</u></p> <p>FEATURES</p> <ul style="list-style-type: none"> • Fully articulating head and jaw with teeth and tongue • Individual disposable airways to practice hygienic mouth-to-mouth ventilation • Airway blocked when head is forward • Easily accessible chest cavity with molded ribcage, lungs, and heart • Realistic chest rises during ventilation • Femoral venous site • Carotid and femoral arterial pulse points • Individual disposable airways to practice hygienic mouth-to-mouth ventilation • Soft, lifelike face skin with molded hair • Eyes open and close in realistic eye sockets for ophthalmic purposes • One normal eye and one eye dilated • Bends at waist • Jointed elbows, wrists, knees and ankles • Realistic hands, feet, fingers and toes • Detachable at waist for easy storage • Practice regular or Vest CPR • Monitor/log compressions and ventilations, Wireless Controller Pad. Included. • Exercise suit • Custom nylon carrying bag • Instruction Manual <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>	02	134,561.70	269,123.40
05	S102.250.M	<p><u>CPR NEWBORN WITH CONTROLLABLE TABLET</u></p> <p>FEATURES</p> <ul style="list-style-type: none"> • Fully articulating head and jaw with tongue • Safe CPR individual disposable airways to practice hygienic mouth-to-mouth ventilation • Controllable Tablet monitors and logs the cadence and depth of cardiac compression and airway ventilation 	02	416,664.80	833,329.60

Subtotal
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833,329.60

		<ul style="list-style-type: none"> • Arterial pulse points • Soft, lifelike face skin with molded hair • T-shirt and shorts • Instruction manual • Custom nylon carrying bag • Arterial pulse points • Soft, lifelike face skin with molded hair • T-shirt and shorts • Instruction manual • Custom nylon carrying bag 			
		MANUFACTURER: GAUMARD SCIENTIFIC, USA			
06	S315.400	<p><u>ADULT MULTIPURPOSE AIRWAY AND CPR TRAINER</u></p> <p>The advanced airway trainer allows learners to practice recognizing and managing a difficult airway via endotracheal intubation or surgical intervention, perform CPR, and treat tension pneumothorax. Should have lifelike features and operate without external power or batteries. Simply pressurize the internal reservoir using a standard BVM and it's ready for use.</p> <p>FEATURES</p> <ul style="list-style-type: none"> • Realistic airway which is manually programmable to include tongue edema, laryngospasm and pharyngeal swelling • Use NP/OP tubes, ventilate, and intubate • Realistic chest compression/recoil • BVM produces realistic chest rise • Intubate using conventional adjuncts • Inflating lungs produces realistic chest rise • Gastric distention • Easy neck flexion and extension • Unilateral chest rises with right main stem intubation • Lungs can be disabled independently • Surgical airway procedures such as tracheostomy and needle or surgical cricothyrotomy • Supplied with normal and surgical cricoid cartilage inserts, allowing for longitudinal and transverse incisions • Bilateral needle decompression at 2nd intercostal space • Bilateral drainage at 5th intercostal space using conventional large diameter chest tubes • Pneumatic controls powered by internal reservoir charged using supplied manual pump or a 	01	479,591.70	479,591.70

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		<p>conventional BVM</p> <ul style="list-style-type: none"> • Multifunctional, compact, portable • Eyes may be open or closed • Adult male upper body and head • Silicone face/head skin for realistic jaw thrust, head tilt/chin lift <p>ITEMS INCLUDED</p> <ul style="list-style-type: none"> • Full-size adult male head and torso • Ventilation trachea insert • Mini hand pump • Surgical trachea kit: <ul style="list-style-type: none"> • 5 Surgical trachea inserts • 10 Trachea skin covers • 10 Simulated cricothyroid membranes • Replaceable needle pneumonia. sites • Mineral oil lubricant • Talcum powder • Instructions manual • Soft carrying bag <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>			
07	S300.105	<p><u>ACLS AND EMERGENCY CARE PEDIATRIC SIMULATOR</u></p> <p>FEATURES:</p> <ul style="list-style-type: none"> ▪ Vocal responses and sounds include complaints, replies, gagging, cough, gasping, and more ▪ Realistic airway with tongue, visible vocal cords, trachea, and esophagus ▪ Supports oral and nasal intubation using an endotracheal tube, and other standard medical devices ▪ Sensors detect depth of intubation ▪ Unilateral chest rises with right main stem intubation ▪ Intramuscular injection sites in deltoids and quadriceps for placement exercises ▪ Built-in rechargeable battery ▪ 15in control laptop with Windows® operating system ▪ Supports Windows® applications, documents, and USB peripherals ▪ Includes USB communications module and cable ▪ (CPR) Chest compression and ventilation performance sensors 	01	1,769,839.60	1,769,839.60

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		<ul style="list-style-type: none"> ▪ Realistic chest cavity and recoil ▪ Chest compressions generate palpable pulses ▪ Bilateral lung expansion and realistic chest rise during bag valve mask (BVM) ventilation ▪ Visible gastric distension with excessive bagging with esophageal intubation ▪ Realistic chest rises and pulses after resuscitation. Internal air reservoir provides continuous operation for up to 2 minutes ▪ Defibrillate, cardiovert, and pace using real devices and adjuncts ▪ Connect real electrodes to the conductive skin sites and monitor ECG using real medical equipment ▪ Palpable carotid, brachial, radial, and femoral pulses ▪ Auscultate heart and lung sounds ▪ Programmable central cyanosis simulates hypoxic events and effective interventions ▪ Measurable blood pressure with audible Korotkof sounds ▪ Oximeter sensor placement detection on the left index finger ▪ Intraosseous access at right tibia ▪ IV access for medication infusion <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>			
08	S300.110	<p><u>NEWBORN ADVANCED LIFE SUPPORT TRAINING SIMULATOR</u></p> <p>Neonatal Advanced Life System is used with New CPR standards have some features like Oral and nasal intubation on a sensible airway with tongue, vocal cords, trachea and esophagus. ET tube or LMA Oral intubation plus suctioning Sensors detect the depth of intubation. Chest rise is unilateral with right main stem intubation; Visible gastric inflation with esophageal intubation; Color reacts to hypoxic events and interventions; It houses aided ventilation; Bilateral lung expansion having realistic chest rise; Gastric distension having unrestricted BVM Ventilation is measured and logged; Conductive skin regions permit ECG monitoring with real equipment; Chest compressions are measured and logged Left side brachial, pedal, popliteal and radial pulse, Umbilical pulse and catheterization; Blood pressure auscultation in left arm Korotkoff sounds which can be heard between systolic and diastolic pressures; Oxygen saturation placement detection is done on the palm of the right hand by using a real monitor.</p> <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>	01	1,385,377.60	1,385,377.60
09	IW931	<p><u>INFANT WARMER</u></p> <p>Easily transported with an integrated bassinet, with tilt mechanism and transport handle. The bassinet comes with appropriate sized mattress. An X- Ray Tray is fitted at a proximity of the cassette to the bassinet base ensures high quality images. With built in wave length & intensity optimization, even irradiance distribution, efficient head assembly, internal overheat protection, color corrected examination light.</p>	01	787,790.57	787,790.57

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		ALARMS	MANUAL CONTROL <ul style="list-style-type: none"> • Check Baby • See Manual • Power Fail • High Skin Temperature 		
		WITH	<ul style="list-style-type: none"> • Prewarm, Baby and Manual Heater Modes • 2 Procedure Timers • Examination Light • APGAR Timer • Tilt mechanism • Transport Handle • 4 x 10cm Lockable Castors • Skin Sensor - Reusable 		
		ELECTRICAL SUPPLY VOLTAGE	230 ± 20 VAC		
		SUPPLY FREQUENCY	50 / 60 Hz		
		MATTRESS IRRADIANCE	Mattress irradiance is 32 MW/cm ² at 100% heat cm (26.8") heater grill to mattress distance		
		TEMPERATURE RANGE	Set Temp from 34.5°C to 37.5° in 0.1°C steps Displayed Temperature from 4.0°C to 50.0°C		
		TEMPERATURE ALARM	± 1°C from Set Temperature		
		HEATER HEAD ROTATION	-130° to +130° from center position		
		HEIGHT	172 cm (68")		
		WIDTH	77 cm (30") -Excluding shelves		
		BASSINET SIZE (STANDARD)	65 cm x 65 cm (26" x 26") Standard Mattress size (24" x 24")		
		BASSINET TILTING POSITIONS	-10° to +10° in ½° - increments		
		CASTORS	4 x Ø10 cm (4") all locking		
		MATTRESS HEIGHT	91 cm (36")		
		MAXIMUM LOADING	85 kg (187 lb) of accessories - Includes patient 140 kg (308 lb) total weight		
		WEIGHT WITHOUT ACCESSORIES	55 kg (121 lb)		

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		MANUFACTURER: FISHER & PAYKEL, NEWZEALAND			
10	ACTILIT	<p><u>PATIENT BED</u></p> <p>A High end fully motorized also bed for use in intensive cardiac applications.</p> <p>Features:</p> <ul style="list-style-type: none"> • W/ Trendelenburg And Reverse Trendelenburg Height-Adjustable by Tie Rod • Trendelenburg & Reverse Trendelenburg - • Upper Torso Raising and Electric Leg Flexing + • Knee Flexing Fowler Position (Auto-contour)- Cardiac Chair • Electric Feet Rising • Upper Torso Raising with Mattress Platform Extension for Pressure Ulcer Reducing Risks • Bedspring Extension 20 Cm - • Electric Jack Low Tension 24v. IP X4 With Fire • Protection Envelope UL 94 V0 • Integrated Battery • Bedding holder extension at bed's feet and 4 ring shaped stops <p>Technical Specifications:</p> <p>Minimum height: 450 mm Maximum height: 765 mm Maximum inclined position adjustment (forward / backward): 12° Maximum upper torso raising adjustment: 68° Servo-assisted foot section: 25° Weight: 120 kg Maximum capacity: 200 kg Supply voltage: 200 V - 50 Hz Operating voltage: 24 VCC IP protection rating: IP 66 Useful area: 2000 x 900 mm Electrical classification: 1B</p> <p style="text-align: center;">MANUFACTURER: AHF MOBILIER HOSPITALIER, FRANCE</p>	04	434,794.84	1,739,179.36

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11	S405	<p><u>PEDIATRIC INJECTION TRAINING ARM</u></p> <p>The injection training arm and hand simulates that of a 5-year-old, with lifelike venous structure. The dorsum of the hand has two veins for additional intravenous set-up and training. The flexor and lateral sides of the arm contain sites for subcutaneous injection practice. The deltoid contains an intramuscular injection site.</p> <p>FEATURES</p> <ul style="list-style-type: none"> • Intravenous injections, infusion, and blood collection training • Subcutaneous injections in both flexor and lateral sides of forearm • Intramuscular injections in deltoid • Lifelike venous structure • Dorsum of hand has two veins for additional intravenous set-up • Squeeze bulb simulating either collapsed or distended veins • Easily replaceable skin and veins that withstand multiple needle sticks • Mounted on smoked Lucite® base and supplied with blood bag and stand, synthetic blood concentrate, squeeze bulb, and spare arm skin • Soft carrying bag, Instruction manual <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>	03	46,661.20	139,983.60
12	S109	<p><u>NEWBORN SKILLS TRAINER</u></p> <p>The Newborn Skills Trainer was designed with anatomic resemblance and realistic articulation to aid educators prepare learners for simulation-based education. Train skills like intubation, ventilation, compressions, IV cannulation, umbilical catheterization and more.</p> <p>GENERAL</p> <ul style="list-style-type: none"> • Full-term neonate of size/weight: 8 lbs 19.5 in/ Smooth, full-body skin • Realistic resistance and range of joint articulation including flexible spine • Detachable umbilical cord & Palpable lumbar landmarks for needle insertion <p>AIRWAY</p> <ul style="list-style-type: none"> • Anatomically accurate oral cavity and airway: including gums, tongue, epiglottis, glottis, and vocal cords • Practice endotracheal intubation with standard adjuncts • Supports placement of supraglottic airway devices • Perform Sellick maneuver • Supports positive-pressure ventilation via BVM, nasopharyngeal, or oropharyngeal intubation <p>RESPIRATORY</p> <ul style="list-style-type: none"> • Visible chest rises with positive-pressure ventilation 	01	389,555.30	389,555.30

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		<ul style="list-style-type: none"> • Chest tube insertion <p>CARDIAC</p> <ul style="list-style-type: none"> • Realistic resistance for chest compressions and recoil • Palpable pulses generated with manual pressure bulb: fontanelle, umbilical, brachial, and femoral <p>VASCULAR ACCESS</p> <ul style="list-style-type: none"> • IV cannulation: bolus infusion, and sampling - hand - scalp - umbilicus • Umbilical catheterization (UVC/UAC): access, continuous infusion, and sampling • Bilateral heel stick with blood draw • Lumbar puncture: catheterization, infusion, and sampling • Anterolateral thigh intramuscular injection • Bilateral intraosseous tibial infusion <p>GASTROINTESTINAL</p> <ul style="list-style-type: none"> • Allows nasogastric and orogastric intubation • Perform feeding and suction through gastric tubes • Ileostomy, colostomy, and suprapubic stomas for ostomy care and drainage exercises • Interchangeable male and female genitalia • Urinary catheterization with fluid return <p>ACCESSORIES</p> <p>(3) Stomas (3) Umbilical Stumps Umbilical Cord (3) Lumbar Inserts (6) Replacement Intraosseous Tibial Bones (4) Heel Stick Inserts</p> <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>			
13	MW8	<p><u>TUBE FEEDING SIMULATOR NG, OG AND PEG</u></p> <p>Tube Feeding Simulator is an effective training tool for caregivers and healthcare professionals to acquire skills of enteral tube nutrition. The manikin has three routes for EN tubes and allows training with real liquid foods.</p> <ul style="list-style-type: none"> • Oral/Nasal feeding tube insertion and PEG tube setting. • Tube placement can be confirmed by auscultation. • The transparent structure allows direct observation of progress and placement of the tube. • The manikin can be set at Fowler's position. • Real liquid foods (formulas) can be administrated. • The tube feeding routes panel and the chest sheet facilitate demonstration and anatomical understanding. <p><u>Includes:</u></p> <ul style="list-style-type: none"> • 1 male torso 	02	280,364.00	560,728.00

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		<ul style="list-style-type: none"> • 1 support base • 1 drain tube • 1 funnel • 1 plastic cup • 1 tube feeding routes panel • 1 chest sheet • 1 instruction manual 			
MANUFACTURER: KOYOTO KAGAKU, JAPAN					
NURSING STUDENT ROOM					
14	LF01083U	<p><u>TRACHEOTOMY CARE SIMULATOR</u></p> <p>Suctioning techniques, proper cuff inflation, dressing changes. The simulator replicates an adult male containing oral and nasal passages and all appropriate anatomy - pharynx, epiglottis, trachea, esophagus, stoma, cricoid cartilage, and representative cervical vertebrae.</p>	01	101,537.40	101,537.40
MANUFACTURER: LIFE FORM, USA					
15	W44004	<p><u>INTRAMUSCULAR INJECTION SIMULATOR</u></p> <p>A simulated bony structure is embedded in the torso and represents the superior end of the femur, or greater trochanter, the posterior superior and anterior superior iliac spines, and the sacrum. The bony structure provides palpable anatomical landmarks so students can identify proper injection sites: dorsogluteal, ventrogluteal, and vastus lateralis injections.</p>	01	126,852.00	126,852.00
MANUFACTURER: 3B SCIENTIFIC, GERMANY					
16	V400P	<p><u>CENTRAL VENOUS CATHETER SIMULATOR</u></p> <p>A lifelike model of the human torso, with detachable right arm, that enables health care providers to learn and demonstrate competency with long term vascular access devices: implanted ports, central venous catheters, and peripherally inserted central catheters. All the vascular access devices used are actual clinical devices. Blood reservoir bag permits fluid infusion or "blood" withdrawal.</p> <p>FEATURES</p> <ul style="list-style-type: none"> • Simulate wandering or shifting devices, tilting or tipping devices, or deeply placed devices when accessed through the outer tissue flap • Outer tissue flap feels like human tissue. Skin moves when palpated • Central venous catheter • Peripherally inserted catheter 	02	202,253.30	404506.60

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		<ul style="list-style-type: none"> • Blood reservoir bags, tubing, talcum powder • Soft carrying bag 			
		MANUFACTURER: GAUMARD SCIENTIFIC, USA			
17	LF04001U	<p><u>GERIATRIC NURSING SKILLS MANIKIN</u></p> <p>Features the following nursing skills:</p> <ul style="list-style-type: none"> • Normal and Cancerous Mole • Stage 1 Sacral Ulcer • Dilated and Constricted pupils • Reddened Skin Folds • Bandaging and Wound Dressing • Bed Baths • Clothing Changes • Denture Placement and Removal, Upper and Lower • Ear Canal Irrigation, Otic Drops, and Hearing Aid Placement • Eye Irrigation • Finger and Toe Manipulation with Bandaging - Flexible and Individually Molded • Hair Care Washing and Combing • Intramuscular Injection Sites: Arm, Thigh, Buttock • Oral and Nasal Hygiene: Lavage, Gavage, and Suctioning • Ostomy Care: Ileostomy and Colostomy Tissue • Maintenance and Appliance Application, Lavage, and Suctioning • Patient Positioning • Patient Transfer Techniques • Pedicare • Tracheostomy Care, Lavage and Suctioning 	01	382,478.00	382,478.00
		MANUFACTURER: LIFE FORM, USA			
18	MicroLab	<p><u>SPIROMETER</u></p> <ul style="list-style-type: none"> ▪ Color-guided usability ▪ The functions can be easily accessed using the high-definition color touchscreen. ▪ Built-in printing ▪ It offers a built-in high-resolution printer and the option to print on external printers using a USB connection. ▪ On-screen convenience ▪ Full flow volume and volume time curves let you inspect maneuvers as you follow test-quality prompts on the screen. ▪ Full configuration ▪ The system allows up to 41 indexes to be selected, including predicted values and languages. 	01	220,162.00	220,162.00

Subtotal
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✓
MicroLab
MicroLab

		<p>Tests performed</p> <p>Tests: FVC, SVC, optional pulse oximetry FVC, SVC, optional pulse oximetry</p> <p>Forced (FVC): FEV1, FVC, PEF, FEV1/FVC, FEV6, VC, FEV.75, FEV3, FEV.75/VC, FEV.75/FVC, FEV1/VC, (FER), FEV3/VC, FEV3/FVC, FEV.75/FEV6, FEV1/FEV6, FEF25 (MEF75), FEF50 (MEF50), FEF75 (MEF25), FEF25-75 (MMEF), FEF50/VC, FEF50/FVC, MMEF/FVC (FEF25-75/FVC), FIV1, FIVC, PIF, FIV1/FIVC (FIR), FIF25 (MIF75), FIF50 (MIF50), FIF75 (MIF25), R50 (FEF50/FIF50), MET25-75, FET, MVV (ind)</p> <p>Relaxed (SVC): VT (TV), Ti, Te, Ti/Ttot, EVC, IVC, IC, VT/Ti (TV/Ti), IRV, FR, ERV,</p> <p>Volume range: 0.1–8 L (gold standard turbine 0.1–9.99 L)</p> <p>Flow range: 0.2–15 L/s</p> <p>Accuracy: +/-3% to ATS recommendations</p> <p>Requirements: Spirometry PC software Windows® 2000, XP, 7 SpO2 module (not in the U.S.)</p> <p>General</p> <p>SpO2 range/accuracy: 0–100% ±2 digits</p> <p>Heart range/accuracy: 18–300 BPM ±1 digit</p> <p>Test recording time: 20 sec–60 min</p> <p>Data recording: SpO2: 3x %SpO2 per sec</p> <p>BPM: 3x HR per sec</p> <p>Storage: 2,000+ patient tests including flow/volume loops and volume/time graphs</p> <p>Power supply: Input: 100–240 VAC 50–60 Hz</p> <p>Output: 5 V 2.0 A</p> <p>Battery pack: Rechargeable lithium polymer 3.7 V 1,600 mAh</p> <p>Dimensions: 10.03" x 4.72" x 1.38" (8 cm x 12 cm x 2 cm)</p> <p>Transducer: 1.9" x 2.36" x 3.54" (50 mm x 60 mm x 90 mm)</p> <p>Transport and storage conditions</p> <p>Operation temperature: 0–40 °C (32–104 °F)</p> <p>Weight, excluding transducer: 0.44 lb (200 g)</p> <p>Operating humidity: 30–90%, non-condensing</p> <p>Storage and transport temperature: -20–+70 °C</p> <p>Storage and transport humidity: 10–90% RH</p> <p style="text-align: right;">MANUFACTURER: CAREFUSION, USA</p>			
19	SPOT VS	<p><u>VITAL SIGN MONITOR (PULSE OXIMETER)</u></p> <p>The Vital Signs monitor provides vital signs in seconds with hospital-grade technology.</p>	05	188,945.00	944,725.00

Subair

Team
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Law

		<p><u>FEATURES</u></p> <p>Lightweight and portable with a variety of mounting options All configurations include NIBP, pulse rate and Nellcor® pulse oximetry (SpO2).</p> <p><u>SPECIFICATIONS</u></p> <p>Noninvasive Blood Pressure (NIBP) Cuff Pressure Range 0 to 300 mmHg Initial Cuff Inflation 160 mmHg (adjustable) Systolic Range 60 to 250 mmHg Diastolic Range 30 to 160 mmHg Mean Arterial 40 to 190 mmHg Pressure Range Blood Pressure Accuracy Blood pressure meets or exceeds SP10:1992 AAMI standards Blood Pressure 20-45 seconds typical Determination Time Overpressure Cutoff 315 mmHg ± 15 mmHg Pulse Rate Range 40 to 200 bpm (using BP determination) Pulse Rate Accuracy ± 5% (using BP determination) Temperature Measurement Range 86 °F to 109.4 °F (30 °C to 43 °C) Calibration Accuracy ± 0.2 °F (± 0.1 °C) (Monitor Mode) Determination Time Oral—Approximately 4 seconds Axillary—Approximately 10 seconds Rectal—Approximately 15 seconds Probe Oral/Axillary—Blue cap Rectal—Red cap SpO2 Performance 70% to 100% Measurement Range Pulse Rate Range 25 to 240 bpm</p> <p style="text-align: right;">MANUFACTURER: WELCH ALLYN, USA</p>			
20	MW12	<p><u>EAR EXAMINATION SIMULATOR</u></p> <p>Safe and reliable skills for examining the external acoustic meatus and tympanic membrane with a direct otoscope. Featured is an alarm if painful insertion is detected.</p> <p>FEATURES:</p> <ul style="list-style-type: none"> • Suitable for training with all types of direct ophthalmoscopes. The lens-equipped eyeball units reproduce the visual axis close to that of the human eye providing a realistic eye-ground view. • When the instrument is used improperly, the ocular fundus will not be observed clearly. • Pupil diameter can be changed. 	04	3,066.33	12,265.33

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		<ul style="list-style-type: none"> • The depth of the fundus slides can be set in 3 steps, showing differences between hyperopic, normal and myopic views. • Red reflex can be seen. • 10 cases of fundus slides are provided for training in common eye disease identification. The slides were processed from actual clinical images to reproduce appropriate representative views in the eye unit. • Soft and supple manikin material allows hands-on practice of examination procedures, such as raising the eyelid. <p>Should Include:</p> <ul style="list-style-type: none"> • 1 manikin head and shoulder • 1 set of foreign body removal kit <ol style="list-style-type: none"> 1. simulated ear wax, small toy, small sponge fragments and a spoon <p>CASES</p> <ol style="list-style-type: none"> 1. normal 2. serious otitis media (SOM) 3. mucoid otitis media (MOM) 4. chronic otitis media with perforation 5. acute suppurative otitis media (AOM) 6. cholesteatoma 7. Tympanosclerosis 8. traumatic perforations 9. cerumen block <p>LEARNING MODES</p> <ol style="list-style-type: none"> 1. Self-learning mode 2. Instructor/Examination mode <p>TYPE OF EAR CANAL SIZES</p> <ol style="list-style-type: none"> 1. Four types of ear units -4 pairs 2. Ear exam : normal / stenosis 3. FB ear : normal / stenosis <p>Instruction Manual</p> <p style="text-align: right;">MANUFACTURER: KOYOTO KAGAKU, JAPAN</p>			
21	M82	<p><u>EYE EXAMINATION SIMULATOR</u></p> <p>An innovative trainer for fundus examination, designed to allow examination of eye grounds with the physician's own ophthalmoscope. Various cases can be set up for trainees using combinations of choice of slides, depth and pupil diameter.</p> <p>Soft and supple material allows hands-on simulation of real examination procedures, such as raising the eyelid.</p>	04	1,460.72	5,842.88

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		<p>FEATURES:</p> <ol style="list-style-type: none"> 1. Suitable for training with all types of direct ophthalmoscopes. The lens- equipped eyeball units reproduce the visual axis close to that of the human eye providing a realistic eye-ground view. 2. When the instrument is used improperly, the ocular fundus will not be observed clearly. 3. Pupil diameter can be changed. 4. The depth of the fundus slides can be set in 3 steps, showing differences between hyperopic, normal and myopic views. 5. Red reflex can be seen. 6. 10 cases of fundus slides are provided for training in common eye disease identification. The slides were processed from actual clinical images to reproduce appropriate representative views in the eye unit. 7. Soft and supple manikin material allows hands-on practice of examination procedures, such as raising the eyelid. <p>Should Include:</p> <ul style="list-style-type: none"> • 1 manikin head and shoulder <ul style="list-style-type: none"> ○ 1 pupil switch: 3 steps (2, 3.5 and 5mm diameter) M82A: 2 steps (3.5, 8mm diameter) ○ 1 Slide holder with 3 step depth setting • 1 set of case slides (10 cases) • 1 slide duster • 1 carrying case <p style="text-align: right;">MANUFACTURER: KOYOTO KAGAKU, JAPAN</p>			
22	M89	<p><u>ORAL CARE SIMULATOR</u></p> <p>Simulator trains for observant and attentive skills for the healthcare provider towards patients. The removable denture set allows for training in maintenance, cleaning and mirror operations inside of the mouth. The life-like texture leads to a realistic training experience for students.</p> <ul style="list-style-type: none"> • Allows for practicing realistic oral cleaning procedure with simulated residue and dentures. • Sets in various postures necessary for practicing multiple procedures. • Basics of oral care • Maintenance of dentures and tongue • denture replacement skills <p>Includes:</p> <p>1 oral model with base stand 1 mirror</p>	04	723.78	2895.11

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		1 tooth brush 1 denture case 1 simulated residue <p style="text-align: right;">MANUFACTURER: KOYOTO KAGAKU, JAPAN</p>			
23	M66	<p><u>MEDICAL FOOT CARE</u></p> <p>Maintaining a healthy condition of the patients' feet makes a difference in their quality of life and can be critical for people with diseases including diabetes. This model helps training in simple trimming of nails and callosities by healthcare providers, while serving as a useful tool for general education on basic foot care.</p> <ul style="list-style-type: none"> • Designed to facilitate training in nail clipping, trimming and smoothing away corns and callosities • Replaceable nails, corn and callosities set on the life-size foot model provide excellent training opportunities with true-to-life feeling until the trainees build enough confidence to move on to actual patients. • Helps to demonstrate anatomical landmarks, foot assessment procedures, foot massaging and other day-to-day treatment <p>Includes:</p> <p>1-foot model with swivel stand 20 toe nail A: thickened ingrown nail 20 toe nail B: thickened nail with ringworm 10 callosity pieces 10 corn pieces</p> <p style="text-align: right;">MANUFACTURER: KOYOTO KAGAKU, JAPAN</p>	04	695.94	2,783.76
24	M87	<p><u>STRAP-ON VENIPUNCTURE TRAINER (SET OF 5):</u></p> <p>The Strap-on Venipuncture Trainer for daily training and features a vein tube which makes three lines, two normal and one thin, around the center of the pad. This model has realistic tissue and vein wall resistance, and simulated blood (water) that can be filled and refilled easily using soft plastic bottle that works as a manual pump.</p> <p>Features:</p> <p>This trainer can be strapped onto the upper arm of a SP Realistic tissue and vein wall resistance Vein tube can be refilled easily using a soft plastic bottle that works as a manual pump Three vein tubes are embedded: 2 normal and 1 thin.</p> <p>Includes:</p> <p>5 puncture pads (vein tube embedded) 5 supporting frames with belt 5 injector tubes</p>	05	399.01	1,995.00

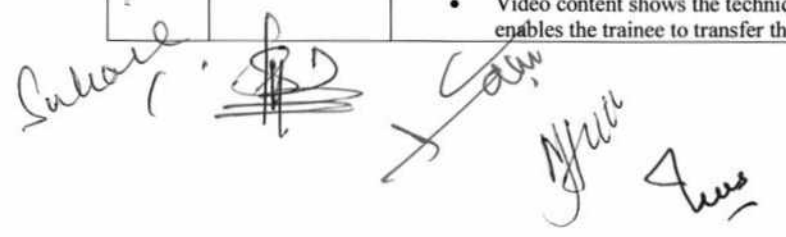
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		5 drain tubes 5 injection bottles MANUFACTURER: KOYOTO KAGAKU, JAPAN			
25	M83	<p><u>SUTURE PRACTICE TRAINERS</u></p> <p>FEATURES:</p> <ul style="list-style-type: none"> • The soft skins are made of durable materials. • You can create an original wound for training. The artificial skin can be cut easily at any site to prepare a novel wound. • Simple and durable supporters keep the soft skins arched or maintain tension in the tubular models. • All instruments for the practice session should be included in the package. • Skills for suture: abdominal skin suture, blood vessel suture, intestinal suture, limbs skin suture <p>INCLUDES:</p> <p>1 set of simulated skins, ducts and supporters</p> <ul style="list-style-type: none"> • abdomen set: 2 abdominal skins 1 supporter • blood vessels set: 5 narrow tubes • intestine set: 5 wide tubes, 1 supporter • limbs set: 2 narrow skins, 1 supporter <p>1 set of instruments needle-holders, suture needles, scissors, suture threads and tweezers</p> <p>1 storage case</p> <p>MANUFACTURER: KOYOTO KAGAKU, JAPAN</p>	05	1,020.73	5,103.65
26	W44768	<p><u>PERITONEAL DIALYSIS SIMULATOR - FOR CONTINUOUS AMBULATORY PERITONEAL DIALYSIS</u></p> <p>Designed to introduce patients, students, and nurses to the essentials of CAPD procedures and care. Features a method to demonstrate and practice peritoneal dialysis. Complete with indwelling Tenckhoff catheter in a hard storage case.</p> <p>MANUFACTURER: 3B SCIENTIFIC, GERMANY</p>	02	126,852.00	253,704.00


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27	W44767	<p><u>HEMODIALYSIS PRACTICE ARM</u></p> <p>Hemodialysis Practice Arm features an established fistula is accessible and the system can be pressurized with artificial blood so that there is an actual flashback when a needle is introduced. The artificial blood approximates the pale shades usually common in dialysis patients. Easily maintained, this simulator is designed with replaceable skin and vascular system.</p> <p style="text-align: right;">MANUFACTURER: 3B SCIENTIFIC, GERMANY</p>	02	127,236.40	254,472.80
28	M53B	<p><u>PROSTATE EXAMINATION SIMULATOR</u></p> <p>The Prostate examination simulator provides realistic training in prostate palpation. Soft life-like anus and rectum material allows efficient training in examination skills. Ten types of prostates are placed in the simulator and the trainer can smoothly interchange them using a simple rotating system. Three patient positions are possible. Compact and space-saving design.</p> <p>FEATURES</p> <ul style="list-style-type: none"> • Built-in prostates can be quickly changed using a simple rotating switch: • Useful for teaching a group of students and testing their achievement. • Ten prostate cases for training: two types of normal prostates, two types of prostate-gland enlargements, one prostatitis and five types of carcinomas. • Soft, life-like material of anus, rectal and lumbar torso provides realistic training in examination procedures, improving skills to diagnose prostate diseases. • The improved lumbar torso can be placed in three patient positions: supine, prone and lateral position. • 1 male lumbar torso, 1 rotating unit (10 prostate cases: 2 normal, 2 enlargements, 5 carcinomas and 1 prostatitis), 1 jar of Vaseline, 1 pair of gloves, 1 carrying case <p style="text-align: right;">MANUFACTURER: KOYOTO KAGAKU, JAPAN</p>	02	318,060.00	636,120.00
29	90031	<p><u>TRAINING LOCAL ANESTHESIA FOR MINOR SURGERY</u></p> <p>FEATURES:</p> <ul style="list-style-type: none"> • Local Anesthesia for Minor Surgery is designed as a resource to help convey the essential skills and techniques required to perform local anesthesia for minor surgery using ring blocks and various infiltration techniques. • Compact and portable • Computer animations, many with informative voiceovers, demonstrate the principles of the techniques. • Clinical video content shows the techniques being used in a real patient environment. • Video content shows the techniques being carried on the supporting synthetic soft tissue models enables the trainee to transfer those skills to the 'hands-on' part of the kit. 	02	22,509.10	45,018.20

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		<ul style="list-style-type: none"> Contains all the relevant instruments, surgical consumables and soft tissue models' necessary for hands on skills training and reinforcement. Single user license. 			
		MANUFACTURER: ADAM ROUILLY, U. K			
30	GDLV17	<p><u>NASAL HEMORRAGE SIMULATOR (NOSE BLEED TRAINER):</u></p> <p>FEATURES:</p> <ul style="list-style-type: none"> Developed in conjunction with the ENT Department of Addenbrooke's Hospital, Cambridge This interactive model provides a practical test of skill for all those who are required to manage severe nose bleeding Strongly recommended for all ENT and Casualty departments For training in cautery and nose packing Success of cautery, at four sites on septum, identified by light panel (battery included) The trainee must identify the bleeding point, clear it by suction and deal with it either by nasal packing or cautery. 	02	144,584.00	289,168.00
		MANUFACTURER: LIFE FORM, USA			
EXAMINATION MODEL ROOM					
31	S222.100.250	<p><u>ADULT MANIKIN DESIGNED FOR TRAINING GENERAL NURSING CLINICAL SKILLS</u></p> <p>Adult manikin designed for training general nursing clinical skills, including IV training, CPR, heart/lung auscultation, blood pressure reading, ostomy care, catheterization, GYN exam, and more. Should include a smart stethoscope and a control tablet which offers real-time CPR quality feedback, virtual patient monitor support, and debriefing tools.</p> <p>GENERAL FEATURES</p> <ul style="list-style-type: none"> Full-body, adult size patient Built-in wireless connectivity Supports bathing and bandaging Eye lids can be opened or closed; one pupil is dilated Upper and lower dentures for oral hygiene Supports NG and OG tube feeding and gastric suction Soft, realistic face, hands, feet, fingers, and toes Simulated ear canal supports drops and irrigation training Palpable pulses: carotid (squeeze bulb) and radial (automatic) 	01	1,124,633.50	1,124,633.50

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		<ul style="list-style-type: none"> • Joint articulation: Head, jaw, shoulder, knees, ankles • Interchangeable male and female organs • Realistic urethral passage and bladder for catheterization exercises • Supports supine and sitting positions • Realistic hair for training haircare exercises and surgical draping • Ulcerated foot • Interchangeable decubitus ulcers at gluteal region • Enema administration capability <p>AIRWAY MANAGEMENT</p> <ul style="list-style-type: none"> • Anatomically accurate airway including tongue, epiglottis, vocal cords and esophagus • Supports tracheotomy tube placement • Features realistic bronchi and lungs • Permits nasal and oral tube placement using standard devices <p>CPR TRAINING WITH WIRELESS MONITOR</p> <ul style="list-style-type: none"> • Real-time CPR quality metrics with performance reporting • Compression depth and rate • Ventilation rate • Excessive ventilation • No-flow time • CPR cycles • Realistic internal organs and anatomical landmarks for correct CPR hand placement • Realistic bilateral lung expansion with bag valve mask ventilation <p>INTRAVENOUS INJECTION TRAINING</p> <ul style="list-style-type: none"> • Advanced training arm and hand for IV, IM, and sub-Q techniques • Intramuscular injection sites in arm, thighs, and buttock. <p>HEART AND LUNG AUSCULTATION</p> <ul style="list-style-type: none"> • Smart Stethoscope featuring 40 normal and abnormal heart and lung sounds • 9 anterior 4 posterior auscultation sites • Features external speaker connectivity to listen to sounds aloud <p>BLOOD PRESSURE AUSCULTATION</p> <ul style="list-style-type: none"> • Programmable blood pressure • Blood pressure gauge view lets you evaluate readings in real-time 			
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		<ul style="list-style-type: none"> • Realistic and dynamic Korotkoff sounds synchronized with blood pressure controls • Automatic return of radial pulse • Includes speakers with volume control for listening to KK sounds aloud <p>STOMA CARE</p> <ul style="list-style-type: none"> • Transverse colostomy and ileostomy stomas support irrigation and cleaning <p>BREAST PALPATION</p> <ul style="list-style-type: none"> • Includes 7 interchangeable breasts featuring varying tumors and diseases • Includes male breast inserts <p>GYN EXAMINATION</p> <ul style="list-style-type: none"> • Includes set of 6 interchangeable cervixes featuring normal and abnormal pathologies • Includes transparent uterus for IUD placement training • Includes 10-12-week uterus for training palpation of normal and pregnant uteri • Supports bi-manual pelvic examination • Supports speculum and uterine sound insertion • Allows vaginal douching and pap smear exercises with realistic vagina and cervix <p style="text-align: center;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>			
32	S230.40	<p><u>BREAST PALPATION SIMULATOR FOR CLINICAL TEACHING</u></p> <p>Breast Palpation Simulator for Clinical Teaching combines state-of-the-art materials to create a realistic look, feel, and texture in addition to lifelike softness and durability. The simulator incorporates a combination of left and right breasts, including axilla regions, with a variety of masses that have distinct textures useful in recognizing normal and abnormal conditions. This simulator offers an excellent training platform on which breast examination techniques may be demonstrated.</p> <p>The Breast Palpation Simulator's six interchangeable breasts include a variety of different pathologies for training of breast examination. An assortment of malignant and benign tumors is included within both the mammary and axilla regions.</p> <p>Should Include:</p> <ul style="list-style-type: none"> • 3 interchangeable left breasts demonstrating chronic mastitis, benign growth, and cirrhosis carcinoma • 3 interchangeable right breasts demonstrating carcinoma and the "orange skin" effect, giant sarcoma, and normal breast tissue • Lifelike softness • Realistic texture and look • Durable Breasts are attached to adult upper torso and can be easily removed and re-assembled • The trainer can be used in either the upright or reclining position 	01	210,468.30	210,468.30

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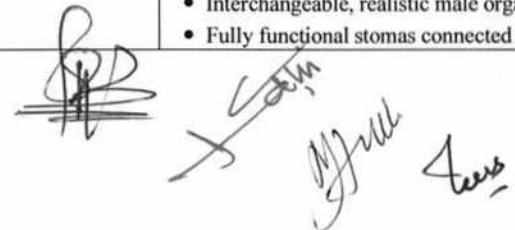
		<ul style="list-style-type: none"> • Soft carrying bag • Instruction manual 			
		MANUFACTURER: GAUMARD SCIENTIFIC, USA			
33	S415	<p><u>BLOOD PRESSURE TRAINING SYSTEM WITH CONTROLLABLE TABLET</u></p> <p>The Blood Pressure Training System includes a full-size adult left arm. This is a versatile training tool developed to assist health professionals teach the processes and skills required to perform blood pressure auscultation procedures and techniques.</p> <p>FEATURES</p> <ul style="list-style-type: none"> • Programmable, palpable radial pulse when cuff pressure is less than the selected systolic blood pressure • Korotkoff sounds K1 through K4 (K5 is silence) audible between systolic and diastolic pressures • Korotkoff sounds automatically silenced if auscultation gap is selected • Korotkoff sounds automatically adjusted depending upon selected heart rate and the rate of cuff deflation • Conventional stethoscope to auscultate Korotkoff sounds in the antecubital area Programmable Blood Pressure Auscultation Tutor • Adjustable systolic and diastolic pressures • Adjustable auscultation gap • Adjustable pulse rate • Display tracks cuff pressure • International power supply 100 to 240VAC • Optional speakers with volume control allow students to hear what the individual student hears while using the stethoscope • Soft carrying bag 	01	148,691.50	148,691.50
		MANUFACTURER: GAUMARD SCIENTIFIC, USA			
34	S401.100	<p><u>ADVANCED MULTIPURPOSE VENOUS TRAINING ARM</u></p> <p>FEATURES:</p> <ul style="list-style-type: none"> • Combining all features required for IV, IM, and sub-Q training in a challenging simulator. • Connects to all adult simulators • Subtle venous network in arm and hand • Cephalic, basilica, antecubital, radial, and ulnar veins • Realistic "pop" as needle enters vein • Intramuscular injection site in deltoid area • Subcutaneous injection areas on the volar side of the forearm and the lateral side 	02	58,983.70	117,967.40

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		<p>of the upper arm</p> <ul style="list-style-type: none"> • TB test site • Squeeze bulb to increase or decrease venous pressure • Veins stand out or collapse • Easily replaceable skin and veins • Administration of medication by intravenous bolus • Simulation of infusion technique • Blood collection exercises with simulated blood • Simulation of clenched fist and tourniquet position • Smoked Lucite® base with stand • Soft nylon carrying baggy • Set-up kit with simulated blood concentrate, pressure bulb, blood dispensing bag, spare arm skin, funnel, and powder. • Instruction manual <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>			
35	M85	<p><u>AIRWAY SUCTION TRAINER</u></p> <p>Airway Suction Trainer provides a representation of human respiratory organs, designed for temporary airway suction and catheter insertion practice. Effective tool with life-like tactile qualities for training in airway suction for choking patients. Three catheter routes are prepared: oral, pharynx and tracheostomy. A sputum-like substance can be collected when using proper suction.</p> <ul style="list-style-type: none"> • Realistic anatomy includes the mouth, tongue, oral and nasal pharynx, epiglottis, trachea and esophagus • Insertion of a catheter orally, nasally or through the tracheostomy opening • Life-size organs facilitate learning proper catheter insertion length • An observation window allows the passage of the catheter to be observed • Realistic sticky simulated sputum • Washable and can be dismantled easily for cleansing <p>Includes:</p> <p>1 head & neck model with airway anatomy 1 bottle of lubricant 2 catheters 1 bottle of simulated sputum 1 metal tray 1 syringe 1 storage case</p> <p style="text-align: right;">MANUFACTURER: KOYOTO KAGAKU, JAPAN</p>	05	1,373.33	6,866.65

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36	M99	<p><u>ARTERIAL PUNCTURE TRAINING WRIST</u></p> <p>Arterial Puncture Training Wrist should feature palpable arterial pulsation, realistic resistance of tissue and artery wall to injection needle. Natural flashback of artificial blood into the needle can be observed. Puncture skin, pad an artery tube should be replaceable. No puncture trace remains on the injection site. One-touch, leak-free connections. This innovative simulator is designed to provide training in arterial puncture and practicing complete skills ranging from the needle insertion to catheter insertion. This simulator helps to cultivate the skills in this challenging procedure.</p> <p>FEATURES:</p> <ul style="list-style-type: none"> • Arterial pulsation is palpable. • Realistic resistance of tissue and artery wall felt with the injection needle. • Natural flashback of artificial blood into the needle can be observed. Radial arterial line placement can be simulated. • No puncture trace remains on the injection site. Catheter insertion procedure can be simulated. Radial arterial puncture • Artery blood sampling Radial line placement • Catheter insertion and placement <p>Includes:</p> <p>1 wrist and hand model 1 circulation pump 2 sets of puncture skin (inner and outer skin) 4 artery tubes 1 silicon tape 1 jar of coloring powder (red) 1 air bulb 1 spoon 1 plastic jars 2 connection tubes 1 vinyl sheet 1 carrying case</p> <p style="text-align: right;">MANUFACTURER: KOYOTO KAGAKU, JAPAN</p>	03	2,765.22	8,295.66
37	S230.10	<p><u>ADVANCED PATIENT CARE SIMULATOR MALE AND FEMALE CATHETERIZATION SIMULATOR:</u></p> <p>Simulator should combine the features of a female and male catheterization simulators. Use of this simulator will give your students the confidence required to perform this basic nursing procedure.</p> <p>FEATURES</p> <ul style="list-style-type: none"> • Complete catheterization training • Interchangeable, realistic male organ • Fully functional stomas connected to removable, replaceable internal tanks 	01	67,363.00	67,363.00

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		<ul style="list-style-type: none"> • Modular urethral valve to prevent fluid leakage • Instruction manual • Soft carrying bag <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>			
38	S230.5	<p><u>ADVANCED PATIENT CARE ENEMA SIMULATOR</u></p> <ul style="list-style-type: none"> • Modular rectal valve to simulate sphincter mechanism • Enema administration kit • Smoked Lucite® stand for enema bag Instruction manual • Soft carrying bag <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>	01	5,1590.20	5,1590.20
39	S230.11	<p><u>MULTIPURPOSE MALE CARE SIMULATOR</u></p> <ul style="list-style-type: none"> • Full size male lower torso • Internal bladder for catheterization • Four interchangeable prostates depicting moderately enlarged benign prostate, prostate with two discreet nodules, prostate with easily palpable large mass, prostate with malignant invasive cancer • Realistic penis and two scrotal sacks; one scrotal sack is normal, the other contains tumors in each testicle • No Scalpel Vasectomy kit containing two removable scrotal skins, two testicles and two long vas assemblies that can be advanced as needed for NSV exercises • Rectum and colon containing benign and malignant masses easily visualized using an appropriate endoscope • Soft carrying bag • Instruction manual <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>	01	88,886.30	88,886.30
40	ACTILIT	<p><u>PATIENT BED</u></p> <p>A High end fully motorized also bed for use in intensive cardiac applications.</p> <p>FEATURES:</p> <ul style="list-style-type: none"> • W/ Trendelenburg And Reverse Trendelenburg Height-Adjustable by Tie Rod • Trendelenburg & Reverse Trendelenburg - • Upper Torso Raising and Electric Leg Flexing + • Knee Flexing Fowler Position (Auto contour)- Cardiac Chair 	01	434,794.84	434,794.84

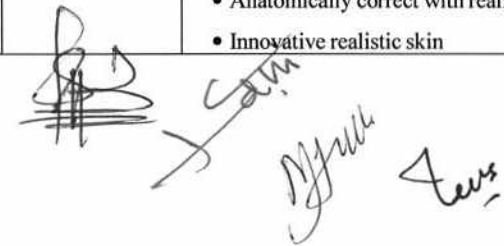
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		<ul style="list-style-type: none"> • Electric Feet Rising • Upper Torso Raising with Mattress Platform Extension for Pressure Ulcer Reducing Risks • Bedspring Extension 20 Cm - • Electric Jack Low Tension 24v. IP X4 With Fire • Protection Envelope UL 94 V0 • Integrated Battery • Bedding holder extension at bed's feet and 4 ring shaped stops <p>Technical Specifications: Minimum height: 450 mm Maximum height: 765 mm Maximum inclined position adjustment (forward / backward): 12° Maximum upper torso raising adjustment: 68° Servo-assisted foot section: 25° Weight: 120 kg Maximum capacity: 200 kg Supply voltage: 200 V - 50 Hz Operating voltage: 24 VCC IP protection rating: IP 66 Useful area: 2000 x 900 mm Electrical classification: 1B</p> <p style="text-align: center;">MANUFACTURER: AHF MOBILIER HOSPITALIER, FRANCE</p>			
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LABOUR AND DELIVERY

41	S2200.M	<p><u>ADVANCED BIRTHING SIMULATOR</u></p> <p>Obstetric patient simulation anywhere training needs to take place. Transport simulator from the birthing suite to the operating room without interrupting the flow of simulation and learning. With Victoria, educators can implement simulations for triage, team training and team hand-on and improve performance in areas where mistakes often occur.</p> <p>Cutting edge manikin with full body supple skin. Seamless joints. Tether less. Wireless. Fully operational in transit. Immersive and realistic labor and delivery simulation experience.</p> <p><u>FEATURES</u></p> <ul style="list-style-type: none"> • Full-term mother with unsurpassed realism and lifelike appearance • Anatomically correct with realistic proportions • Innovative realistic skin 	01	10,843,800.00	10,843,800.00
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		<ul style="list-style-type: none"> • Human-like articulation • Tether less technology • Fully operational for up to 10 hours while untethered • Administer epidurals • Wireless speech <p>MONITORING</p> <ul style="list-style-type: none"> • Use real medical equipment to monitor mother and fetus: - Fetal heart tones and contractions - ECG monitor - Defibrillator - Pulse oximeter - Automatic blood pressure cu • Perform Leopold maneuvers and external version exercises • Palpate realistic contractions <p>DELIVERY</p> <ul style="list-style-type: none"> • Precision Delivery System allows for: - natural fetal movement during birth - whisper-quiet and smooth operation - precise repetition of even the most complex delivery scenarios • Amniotic fluid reservoir provides realism and lubrication during delivery • Perform the following delivery scenarios: - Normal delivery - Breech - Shoulder Dystocia - C-section - Assisted deliveries with forceps or vacuum devices <p>BIRTHING BABY (included)</p> <ul style="list-style-type: none"> • Full-term baby with unsurpassed realism and lifelike appearance • Anatomically correct with realistic proportions, size and weight • Innovative realistic skin • Realistic newborn articulation • Tether less technology • Baby can present the following signs of health or distress: - Heart and lung sounds - Movement - Crying - Cyanosis <p>POSTPARTUM</p> <ul style="list-style-type: none"> • Realistic postpartum hemorrhaging with programmable flow control • Perform fundal massage or the insertion of a balloon tamponade device • Repair 1st to 4th degree episiotomies using real surgical equipment • Realistic placenta and umbilical cord can be delivered normally, but also allow for the simulation of various complications including: - Nuchal cord - Cord prolapse - Placenta previa - Retained fragments <p>CONTROL SOFTWARE</p>			
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		<ul style="list-style-type: none"> • Powerful and easy to use software with active 3D patient animation • Control Victoria with a tablet PC from up to 300ft away • Complete, precise and repeatable control over Victoria, the birthing baby and the labor and delivery process • Over 30 preprogrammed obstetric scenarios included • Edit or create your own scenarios • Automatic Mode and Drug Recognition System • Remains fully functional even in transit <p>INCLUDES</p> <ul style="list-style-type: none"> • Package: 12" Touchscreen Windows® Tablet PC preloaded with • Simulator Control Software • Integrated automatic drug recognition • (20) Drug recognition syringes • 50 Virtual Medications • Wireless router • Active birthing baby • C-section baby • Palpation abdominal cover • Contraction abdomen • C-section abdomen • Postpartum Abdomen • (2) umbilical cords • (2) precut umbilical cords • Placenta · Epidural insert • (2) C-section abdominal skins • Healthy PPH perineum • Midline episiotomy trainer • Mediolateral episiotomy trainer • 4th degree episiotomy trainer • (2) suppositories • Artificial blood concentrate • Mineral oil • Hospital gown • BP Cuff 			
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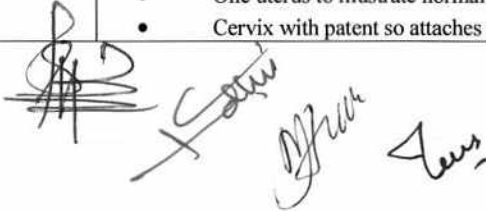
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		<ul style="list-style-type: none"> • Receiving blanket • Delivery ring • Birthing baby cradle • Delivery rods • Fluid filling kit • NIBP calibration kit • Vein replacement set • Spare cervix • Spare birth canal • Active baby • Training Guides 			
		MANUFACTURER: GAUMARD SCIENTIFIC, USA			
42	Actilit	<p><u>PATIENT BED</u></p> <p>A High end fully motorized also bed for use in intensive cardiac applications.</p> <p>FEATURES:</p> <ul style="list-style-type: none"> • W/ Trendelenburg And Reverse Trendelenburg Height-Adjustable by Tie Rod • Trendelenburg & Reverse Trendelenburg - • Upper Torso Raising and Electric Leg Flexing + • Knee Flexing Fowler Position (Auto-counter)- Cardiac Chair • Electric Feet Rising • Upper Torso Raising with Mattress Platform Extension for Pressure Ulcer Reducing Risks • Bedspring Extension 20 Cm - • Electric Jack Low Tension 24v. IP X4 With Fire • Protection Envelope UL 94 V0 • Integrated Battery • Bedding holder extension at bed's feet and 4 ring shaped stops <p>Technical Specifications:</p> <p>Minimum height: 450 mm Maximum height: 765 mm Maximum inclined position adjustment (forward / backward): 12° Maximum upper torso raising adjustment: 68° Servo-assisted foot section: 25° Weight: 120 kg</p>	01	434,794.84	434,794.84

Subtotal

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		Maximum capacity: 200 kg Supply voltage: 200 V - 50 Hz Operating voltage: 24 VCC IP protection rating: IP 66 Useful area: 2000 x 900 mm Electrical Classification: 1B MANUFACTURER: AHF MOBILIER HOSPITALIER, FRANCE			
43	FV2	<u>GYNAE TABLE WITH ELECTRICAL HEIGHT</u> <ul style="list-style-type: none"> • 2 section removable approx. 75mm thick Vinyl PVC cover P.U. foam mattress - Black Color. • Height adjustment from 51 to 91 cm • Ergonomic upholstery with high comfort, width 700mm, fire retardant, • 18 colors available for upholstery. Specially developed for a good comfort: (with head rest, lumbar support at the bottom of the back rest) • Base in grey color, shaped specially designed for good cleaning, very light and resistant, with two telescopic columns system giving high stability • Trendelenburg position • Inclination of the seat is electric • Back rest adjustment with electric jack • Controller: Hand remote with fixation on the right or on the left of the chair, and a pedal controller with a selection button • Equipped with a pair of leg rests, a stainless-steel drawer, and 2 lateral side rails to adapt a lot of accessories, a paper roll holder, 4 design double directional antistatic wheels, non-marking, diameter 150mm with a central brake system • Load capacity: 200 kg MAUFACTURER: CARINA, FRANCE	01	563,877.60	563,877.60
44	S502	<u>FAMILY PLANNING EDUCATOR</u> Our family planning educator is a popular "desktop" simulator for demonstration of introduction and removal of an IUD, diaphragm, and sponge contraception devices. In addition, bi-manual examination technique may be practiced and normal and abnormal uterine positions may be demonstrated. The vulva is made of ultra-soft vinyl to give lifelike feel and flexibility. Includes: <ul style="list-style-type: none"> • One ant everted uterus with clear upper half to illustrate correct position of IUD • One uterus to illustrate normal ante version • Cervix with patent so attaches to uterus suspended within pelvic cavity 	02	36,638.90	73,277.80

Subair


		<ul style="list-style-type: none"> • Soft plastic stomach cover • Instruction manual • Soft carrying bag 			
		MANUFACTURER: GAUMARD SCIENTIFIC, USA			
45	S500.300	<p><u>ADVANCED GYNAECOLOGIC SIMULATOR</u></p> <p>The childbirth training torso is designed to aid educators teach labor and delivery management skills to learners of all levels. The anatomically accurate pelvis and full- term neonate allows learners to develop clinical skills transferable to scenario- based exercises.</p> <p>FEATURES:</p> <ul style="list-style-type: none"> • Realistic Palpable Anatomy: Palpable pelvic landmarks and dilating cervix for vaginal exam • Realistic Fatal Presentation: Illustrate cardinal movements, descent, rotation, and expulsion • Removable Abdomen: Visualize and understand the internal view of fatal movements • Breech Deliveries: Practice emergency Breech man oeuvres: Pinard's, Mauriceau, Ritgen's, Lovset • Forceps Assisted Delivery: Practice force indication, application, and traction techniques • Smooth, Supple Neonate Skin: Perform vacuum cup application, suctioning, and traction • Realistic Umbilical Cord: Practice realistic clamping and cutting of the umbilical cord • Placental Delivery: Placenta with removable cotyledons to practice managing retained fragments • Placental and Umbilical Complications: Partial placenta previa - nuchal cord - true knots - cord prolapse 	01	624,340.00	624,340.00
		MANUFACTURER: GAUMARD SCIENTIFIC, USA			
46	MW16	<p><u>LAPAROSCOPIC SUTURE SIMULATOR -ASSESSMENT SYSTEM</u></p> <p>Quantitative and Multiple Skills Assessment and Feedback</p> <ul style="list-style-type: none"> • Laparoscopic Suture (5 Criteria) • Skin Suture (6 Criteria) • Conventional Training • Innovative Assessment Criteria and Quantitative Measurement Provide Objective Feedback to Trainers. • Trainees Personal Skills Assessment Data Can Be Saved for Reviewing and Analysis. • True-To-Life Simulated Tissues That Provides Convincing Hands-On Experiences. • Laparoscopic Intestinal Suture • Three Training Modes Can Be Automatically Switched with Touch Panel Operation. • Skin Suture Under Direct Vision • Handling of Laparoscopic Instruments 	01	4,953,800.00	4,953,800.00

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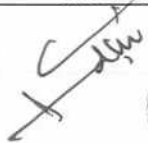


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		<ul style="list-style-type: none"> • Real Clinical Instruments Can Be Used. • A Variety of Training Options. • All in One Unit Is Convenient for Training • Large Monitor and its Feedback Function • Large monitor shows an ongoing demonstration or recorded movie for group learning • Sub-monitor shows past assessment data. The trainee's present suture skills can be compared with previous sessions to review and analyze skills development. • Integrating Advantages of Different Training Methods • Box trainers • Wet lab • Virtual reality simulators <p style="text-align: right;">MANUFACTURER: KOYOTO KAGAKU, JAPAN</p>			
47	W90	<p><u>CERVICAL DILATION PRODUCT MODEL</u></p> <p>3-dimensional, hand painted, easel model shows cervical dilation from 1-8 cm</p> <p>FEATURES</p> <ul style="list-style-type: none"> • Hand painted • Display Cervical Dilation from 1-8 cm • Use as a tabletop display or hang from wall • Includes protective felt cover <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>	02	28,752.50	57,505.00
NICU/PICU					
48	S2220.M	<p><u>ADVANCED NEW-BORN PATIENT SIMULATOR WITH ADVANCES LIMB MOTION, TRUE VENTILATION SUPPORT, REAL MONITORING, AND MOBILE:</u></p> <p>GENERAL</p> <ul style="list-style-type: none"> • Age: Full-term newborn • Weight: 8 lbs. • Length: 21 in. • Tether less and wireless; fully responsive during transport • Wireless control at distances up to 100 ft. • Internal rechargeable battery provides up to 8 hr. of tether less operation • Smooth and supple full- body skin with seamless trunk and limb joints 	01	10,843,800.00	10,843,800.00

Subtotal

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	<ul style="list-style-type: none"> • Programmable movement: blinking, mouth open and close, arm and leg flexion and extension • Realistic joint articulation: neck, shoulder, elbow, hip, and knee • Forearm pronation and supination • Lifelike umbilicus and post cord detachment navel • Palpable bony landmarks • Near-silent operation • Fetus-Newborn wireless link capability • Tablet PC preloaded with Wireless Monitors <p>NEUROLOGIC</p> <ul style="list-style-type: none"> • Crying/grunting with visible mouth movement • Blinking eyes • Seizures/convulsions • Programmable muscle tone: active, reduced, and limp <p>AIRWAY</p> <ul style="list-style-type: none"> • Anatomically accurate oral cavity and airway • Nontracheal/orotracheal intubation (ETT, laryngeal airway) • Head tilt, chin lift, jaw thrust • Supports esophageal intubation • NG/OG tube placement • Bag-valve-mask ventilation support • Neck hyperextension and flexion airway obstruction with event capture and logging • Intubation depth detection and software event log <p>BREATHING</p> <ul style="list-style-type: none"> • Spontaneous, continuous breathing • Variable respiratory rates and inspiratory/ expiratory ratios • Programmable unilateral chest rises and fall • Unilateral lung sounds synchronized with respiratory rate • Programmable retractions, "see-saw" breathing • Mechanical ventilation support A/C, SIMV, CPAP, PCV, PSV, NIPPV Supports PEEP (up to 20 cmH2O) • Dynamic airway and lung controls Variable lung compliance Bilateral bronchi resistance • Programmable respiratory efforts for weaning/liberation • Unilateral chest rises with right mainstem intubation (Automatic detection and logging) • Real-time ventilation feedback • Bilateral, midaxillary pneumothorax sites support needle decompression and chest tube insertion • Pneumothorax sites feature palpable bony landmarks, realistic skin for cutting and suturing, bleeding, 			
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		<p>tactile pleural pop, and fluid drain</p> <ul style="list-style-type: none"> • Visible chest rises during bag-valve-mask ventilation • Supports EtCO2 monitoring using real sensors and monitoring devices <p>CIRCULATORY</p> <ul style="list-style-type: none"> • Visible cyanosis, jaundice, paleness, and redness with variable intensities • Supports manual capillary refill time assessment on the left foot (Automatic detection and logging) • Programmable fontanel: depressed, normal, and bulging • Palpable pulses: brachial, femoral, and umbilical • Pulse palpation event detection and logging • Blood pressure dependent pulses • Supports blood pressure monitoring using real NIBP cuff • Audible Korotkoff sounds • Preductal (right hand) and post ductal (right foot) SpO2 monitoring using real devices Cardiac • Includes comprehensive library of ECG rhythms with customizable beat variations • Supports ECG monitoring using real devices • Supports ECG-derived respiration monitoring (EDR) • Real-time quality feedback and reporting Time to CPR Compression depth/rate Compression Interruptions Ventilation rate • Excessive ventilation Smart CPR voice coach Chest compression depth sensor. • Defibrillate, cardiovert, and pace using real devices and energy • Effective chest compressions generate palpable femoral pulses and ECG activity • Healthy and abnormal heart sounds • Supports virtual pacing and defibrillation <p>VASCULAR ACCESS</p> <ul style="list-style-type: none"> • IV cannulation: bolus, infusion, and sampling • Hand Scalp Umbilicus • Umbilical catheterization (UVC/UAC): continuous infusion and sampling • Bilateral IO tibia infusion <p>GASTROINTESTINAL</p> <ul style="list-style-type: none"> • Programmable abdominal distension • Urinary catheterization with return • Normal and abnormal bowel sounds <p>MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>		
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49	S3005	<p><u>WIRELESS ADVANCED PAEDIATRIC SIMULATOR</u></p> <p>Wireless communications, should be fully responsive, even during transport. Wireless streaming audio. Automatic or instructor control.</p> <p>Should feature the following:</p> <p>AIRWAY</p> <ul style="list-style-type: none"> • Oral and nasal intubation • Use an ET tube or LMA • Sensors detect depth of intubation • Unilateral chest rises with right mainstem intubation • Multiple upper airway sounds synchronized with breathing • Realistic geometry and larger epiglottis. • Better visualization of vocal cords as well as easy intubation • Improved chest wall recoil during CPR • Lung compliance refined to deliver chest rise when ventilating at 20cm H2O <p>BREATHING</p> <ul style="list-style-type: none"> • Control rate and depth of respiration and observe chest rise • Ventilation is measured and logged • Gastric distention with excess BVM ventilation • Select independent left and right lung sounds • Chest rise and lung sounds are synchronized with selectable breathing patterns • Accommodates assisted ventilation, including BVM and mechanical support • Unilateral chest rises and multiple breath sounds <p>VENOUS ACCESS</p> <ul style="list-style-type: none"> • IV training arms • IM sites on shoulders and thighs • Intraosseous access at tibia <p>SIMULATOR</p> <ul style="list-style-type: none"> • Active eyes • NG and Otic exercises 	01	3,902,946.50	3,902,946.50
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		<ul style="list-style-type: none"> • Tracheotomy opening • Interchangeable genitalia • Enema administration • Two-way wireless communication • Internal rechargeable power Control • Wireless tablet PC with stylus control • Communication modules are FCC and CE compliant • Both physiologic modelling and trending • Comprehensive performance feedback • Preprogramed scenarios <p>CIRCULATION AND COLOR CHANGE</p> <ul style="list-style-type: none"> • Multiple heart sounds, rates and intensities • Chest compressions are measured and logged • Blood pressure can be taken bilaterally using a cuff, palpation, or auscultation • Korotkoff sounds audible between systolic and diastolic pressures • Color and vital signs respond to hypoxic events and interventions • Bilateral carotid, brachial and radial pulses operate continuously • Pulse strengths vary with blood pressure pulses are synchronized with ECG <p>ACTIVE EYES</p> <ul style="list-style-type: none"> • Open and close • Select blink rate • Select pupillary response to light file <p>FILE SHARING</p> <ul style="list-style-type: none"> • Provide students with images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progress <p>ACCESSORIES</p> <ul style="list-style-type: none"> • 100-240 VAC charger • Blood pressure cuff Carrying case <p>LOG</p> <ul style="list-style-type: none"> • Track the actions of up to six care providers using our menu of Responses or write a narrative • Links with Pro+ recording and debriefing system integrating the log with cameras and patient monitors 			
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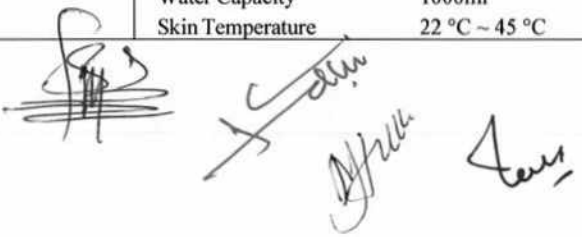
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		<p>DEFIBRILLATE, CARDIOVERT AND PACE</p> <ul style="list-style-type: none"> • Apply real electrodes and AED pads • Use real EMS equipment • See electrical interventions on your AED or our monitor <p>ECG</p> <ul style="list-style-type: none"> • View ECGs with physiologic variations generated in real-time • Synchronized with pulses • Conductive skin regions • Apply real electrodes <p>MOTION</p> <ul style="list-style-type: none"> • Fully responsive even when carried • Body convulses on command • Eyes open / close and feature slow or rapid blinking <p>HYPOXIC MODELLING</p> <ul style="list-style-type: none"> • Color and vital signs respond to hypoxic events and interventions <p>SOUNDS</p> <ul style="list-style-type: none"> • Extensive speech library • Heart sounds include a normal heart as well as splits and murmurs • Respiratory sounds include normal lungs as well as stridor, bronchial, wheezing, pleural friction and crackles • Bowel sounds <p style="text-align: right;">MANUFACTURER: GAUMARD SCIENTIFIC, USA</p>			
50	Actilit	<p><u>PATIENT BED</u></p> <p>A High end fully motorized also bed for use in intensive cardiac applications.</p> <p>FEATURES:</p> <ul style="list-style-type: none"> ▪ W/ Trendelenburg And Reverse Trendelenburg Height-Adjustable by Tie Rod ▪ Trendelenburg & Reverse Trendelenburg - ▪ Upper Torso Raising and Electric Leg Flexing + ▪ Knee Flexing Fowler Position (Auto contour)- Cardiac Chair ▪ Electric Feet Rising ▪ Upper Torso Raising with Mattress Platform Extension for Pressure Ulcer Reducing Risks ▪ Bedspring Extension 20 Cm - 	01	298,288.64	298,288.64

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		<ul style="list-style-type: none"> ▪ Electric Jack Low Tension 24v. IP X4 With Fire ▪ Protection Envelope UL 94 V0 ▪ Integrated Battery ▪ Bedding holder extension at bed's feet and 4 ring shaped stops <p>Technical Specifications: Minimum height: 450 mm Maximum height: 765 mm Maximum inclined position adjustment (forward / backward): 12° Maximum upper torso raising adjustment: 68° Servo-assisted foot section: 25° Weight: 120 kg Maximum capacity: 200 kg Supply voltage: 200 V - 50 Hz Operating voltage: 24 VCC IP protection rating: IP 66 Useful area: 2000 x 900 mm Electrical Classification: 1B</p> <p style="text-align: center;">MANUFACTURER: AHF MOBILIER HOSPITALIER, FRANCE</p>			
51	CHS-i1000	<p><u>INCUBATOR</u></p> <p>By use of microprocessor, it is possible to control temperature and humidity of the hood inside precisely. It is designed that air circulation system minimizes the heat loss in the hood by use of double wall structure and air wall (curtain). Humidity can be adjusted between 30- 90% with a humidity controller. 8 types of audible & visible alarm devices enable users to identify problems of the infant or Incubator easily, if the incubator has some trouble in its operation. Double safety device makes overheat of heater cannot affect the safety of the infant to provide comfortable and silent environment for the infant, the noise level of the Infant Incubator is programed to lower than 47dB(A), which is lower than IEC601-2 standard.</p> <p>TECHNICAL SPECIFICATIONS: Power Source 120VAC, 50/60Hz Power consumption 450W / 60W / 23W Control mode Air/Skin Mode Warm-Up Time ≤25min Oxygen Concentration 21%-80% Humidifier Auto Control SpO2 Display 1% ~ 100% Water Capacity 1000ml Skin Temperature 22 °C ~ 45 °C</p>	01	624,340.00	624340.00

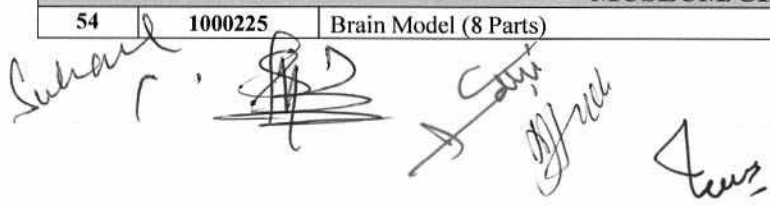
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		Control Range 35 °C ~ 37 °C Air Temperature 5 °C ~ 50 °C Air Temp Control Range 20 °C ~ 37 °C Humidity Control 30% ~ 90 % Humidity Control Range 30% ~ 90 % Mattress Tilting Angle 0 ~ 12 Rotary tilting 0 ~ 12 Noise level in Hood ≤47db (A) Fuse 125V/6.3A Air Filter 0.5 X-Ray Cassette Tray For 10" x 12" Weight Approx. 80kg Hood System Double Wall Type Control type Microprocessor Alarms (LED) Power fail, System fail, Sensor fail, over Temp., fail, Air flow fail, Air Temp., fail, Skin Temp. fail, Low- Water.							
		MANUFACTURER: JW MEDICAL, KOREA							
52	IW931	<p><u>INFANT WARMER</u></p> <p>Easily transported with an integrated bassinet, with tilt mechanism and transport handle. The bassinet comes with appropriate sized mattress. An X-Ray Tray is fitted at a proximity of the cassette to the bassinet base ensures high quality images. With built in wave length & intensity optimization, even irradiance distribution, efficient head assembly, internal overheat protection, color corrected examination light.</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;">ALARMS</td> <td style="width: 50%; vertical-align: top;"> MANUAL CONTROL <ul style="list-style-type: none"> • Check Baby • See Manual • Power Fail • High Skin Temperature </td> </tr> <tr> <td style="vertical-align: top;">WITH</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Prewarm, Baby and Manual Heater Modes • 2 Procedure Timers • Examination Light • APGAR Timer • Tilt mechanism • Transport Handle </td> </tr> </table>	ALARMS	MANUAL CONTROL <ul style="list-style-type: none"> • Check Baby • See Manual • Power Fail • High Skin Temperature 	WITH	<ul style="list-style-type: none"> • Prewarm, Baby and Manual Heater Modes • 2 Procedure Timers • Examination Light • APGAR Timer • Tilt mechanism • Transport Handle 	01	787,790.57	787,790.57
ALARMS	MANUAL CONTROL <ul style="list-style-type: none"> • Check Baby • See Manual • Power Fail • High Skin Temperature 								
WITH	<ul style="list-style-type: none"> • Prewarm, Baby and Manual Heater Modes • 2 Procedure Timers • Examination Light • APGAR Timer • Tilt mechanism • Transport Handle 								

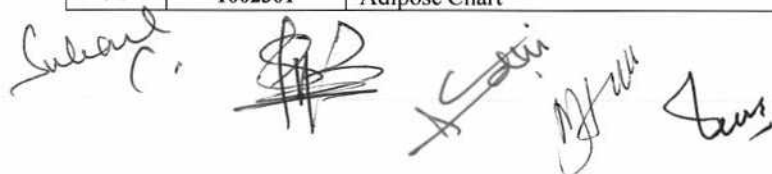
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		<ul style="list-style-type: none"> • 4 x 10cm Lockable Castors • Skin Sensor - Reusable 				
		ELECTRICAL SUPPLY VOLTAGE	230 ± 20 VAC			
		SUPPLY FREQUENCY	50 / 60 Hz			
		MATTRESS IRRADIANCE	Mattress irradiance is 32 MW/cm ² at 100% heat cm (26.8") heater grill to mattress distance			
		TEMPERATURE RANGE	Set Temp from 34.5°C to 37.5° in 0.1°C steps Displayed Temperature from 4.0°C to 50.0°C			
		TEMPERATURE ALARM	± 1°C from Set Temperature			
		HEATER HEAD ROTATION	-130° to +130° from center position			
		HEIGHT	172 cm (68")			
		WIDTH	77 cm (30") -Excluding shelves			
		BASSINET SIZE (STANDARD)	65 cm x 65 cm (26" x 26") Standard Mattress size (24" x 24")			
		BASSINET TILTING POSITIONS	-10° to +10° in ½° - increments			
		CASTORS	4 x Ø10 cm (4") all locking			
		MATTRESS HEIGHT	91 cm (36")			
		MAXIMUM LOADING	85 kg (187 lb) of accessories - Includes patient 140 kg (308 lb) total weight			
		WEIGHT WITHOUT ACCESSORIES	55 kg (121 lb)			
MANUFACTURER: FISHER & PAYKEL, NEWZEALAND						
53		ON-SITE INSTALLATION AND TRAINING FOR SIMULATION PRODUCTS PER VISIT		01	492,900.00	492,900.00
MUSEUM/CHARTS ANATOMICAL MODEL						
54	1000225	Brain Model (8 Parts)		01	33,932.91	33,932.91

Subtotal

Subtotal
Price
Price

55	1000303	Stomach (3 Parts)	01	37,017.72	37,017.72
56	1000250	Ear Model (4 Parts)	02	37,017.72	74,035.44
57	1000256	Eye (7 Parts)	02	71,978.90	143,957.80
58	1013282	Male Pelvis (7 parts)	01	96,657.38	96,657.38
59	1000281	Female Pelvis (2 Parts)	01	28,791.56	28,791.56
60	1000217	Head Model (6 Parts)	01	64,781.01	64,781.01
61	1008548	Heart (7 Parts)	01	48,328.69	48,328.69
62	1020176	Skeleton Model with Muscles and Ligaments	01	101,798.73	101,798.73
63	1000188	Unisex Torso (16 Parts)	01	83,495.52	83,495.52
64	1001236	Life size Muscle Torso Model (27 Part)	01	679,071.43	679,071.43
65	1000291	Skin, Block Model	02	86,374.68	172,749.36
66	4000060	Skull with Jaw and Teeth	01	5,573.80	5,573.80
67	1000243	Lower Twin-Root Molar	01	15,952.60	15,952.60
68	1005532	Intestinal Villi	01	87,402.95	87,402.95
69	1005531	Nose and Olfactory Organ,	01	112,081.43	112,081.43
70	1005553	Motor Neuron Diorama	01	160,410.12	160,410.12
71	1000331	Pregnancy Series (5 Models)	01	76,091.98	76,091.98
72	1000254	Nose with Paranasal Sinuses	01	45,243.88	45,243.88
73	1000272	Larynx	01	38,045.99	38,045.99
74	1000295	Basic Kidney Section	01	14,395.78	14,395.78
75	1000317	Dual Sex Urinary System	01	71,156.28	71,156.28
76	1000177	Hip joint (7 Part)	01	46,272.15	46,272.15
77	1000163	Functional Knee Joint	01	12,544.89	12,544.89
78	1000145	Thoracic Spinal Column	01	12,133.59	12,133.59
79	1000146	Lumbar Spinal Column	01	12,133.59	12,133.59
80	1000136	Sternum with Rib Cartilage	01	3,701.77	3,701.77
81	1000253	Life-size Auditory Ossicles	01	12,750.55	12,750.55
82	1020181	Skull with Facial Muscles	01	46,066.50	46,066.50
83	4006701	The Female Genital Organs Chart	01	1,322.34	1,322.34
84	4006702	Female Urinary Incontinence	01	1,953.71	1,953.71
85	4006707	Birth Control	01	1,953.71	1,953.71
86	1018312	How to Perform Breast Self-Examination (BSE)	01	4,524.39	4,524.39
87	4006715	Allergies Chart	01	1,953.71	1,953.71
88	4006693	Hepatitis Chart	01	1,953.71	1,953.71
89	4006694	Diabetes Mellitus Chart	01	1,953.71	1,953.71
90	4006699	Kidney Chart	01	1,953.71	1,953.71
91	1002301	Adipose Chart	01	3,290.46	3,290.46

Subtotal


92	4006551	Muscle Tissue Chart	01	3,290.46	3,290.46
93	4006652	Human Muscle Chart	01	1,953.71	1,953.71
94	4006664	Sports Injuries Chart	01	1,953.71	1,953.71
95	1018427	Intramuscular Injection Sites Poster Chart	01	4,935.70	4,935.70
96	4006526	Intestinal Parasites I Chart	01	3,290.46	3,290.46
97	4006541	Bacteria Chart	01	3,290.46	3,290.46
98	4006676	Pneumonia Chart	01	1,953.71	1,953.71
99	4006722	HIV and AIDS Chart	01	1,953.71	1,953.71
100	4006547	The Birth Process Chart	01	3,290.46	3,290.46
101	4006704	Childbirth Chart	01	1,953.71	1,953.71
102	4006706	Breastfeeding Chart	01	1,953.71	1,953.71
103	4006671	Respiratory Tract Infections Chart	01	1,953.71	1,953.71
104	4006677	Asthma Chart	01	1,233.92	1,233.92
105	4006678	COPD Chart - Chronic Obstructive Pulmonary Disease	01	1,953.71	1,953.71
106	4006666	Diseases of the Eye Chart	01	1,953.71	1,953.71
107	4006669	Rhinitis and Sinusitis Chart	01	1,953.71	1,953.71
108	4006670	Diseases of the Middle Ear Chart	01	1,953.71	1,953.71
109	4006653	Osteoporosis Chart	01	1,953.71	1,953.71
110	4006654	Arthritis Chart	01	1,953.71	1,953.71
111	4006655	Rheumatic Diseases	01	1,953.71	1,953.71
112	4006663	Deformities of the Feet	01	1,953.71	1,953.71
			MANUFACTURER:	3B SCIENTIFIC, GERMANY	
ELECTRONIC ITEMS					
113	X885ix/885ix-SMP	SMART Board® Interactive, Whiteboard System	04	39,750.00	159,000.00
114	Samsung 85JU7000	4k 3D Smart Flat UHD LED TV	02	556,500.00	1,113,000.00
115	Haier HLM-210 B	Water Dispenser	03	31,800.00	95,400.00
116	HP OfficeJet Pro 8710 e-All-in-One	Heavy Duty Laser Jet Color Printer	02	55,650.00	111,300.00
117	HP DeskJet Ink Advantage 2130	Printer	10	19,080.00	190,800.00
118	Dell 4320	Multimedia /Projector	03	127,200.00	381,600.00
119	WRT1900ACS	Wi-fi AP Linksys	05	15,900.00	79,500.00
120	HP ELITE Desk 800 CI-7	Desktop Ci-7 latest generation	22	95,400.00	2,098,800.00

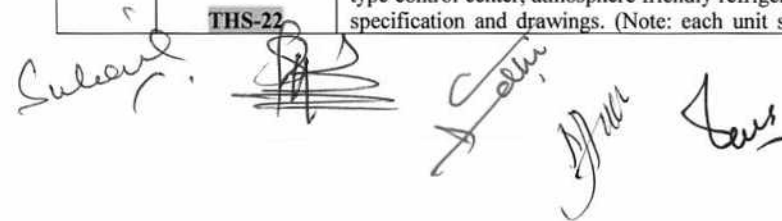
Sulaiman





121	APC USA	UPS	01	127,200.00	127,200.00
122	DANYO ASIA PTE LTD DF- 0270K	Heavy Duty Generator	01	954,000.00	954,000.00
123	DP-8060 (60 CPM)	Copiers: Panasonic Heavy Duty Commercial Type Photo Copier	01	556,500.00	556,500.00
124	Atlas AS-LM2- P36F6.	Laminating Machine	01	79,500.00	79,500.00
125	Casio K-120	Sticker Machine	01	79,500.00	79,500.00
126	Brother QL- 700 High-Speed Professional Label Printer	Label Printing Machine	01	79,500.00	79,500.00
127	Kobra 240 SS5	Shredders Turbo (Strip Cut) Paper Shredder	01	47,700.00	47,700.00
MEDICAL SUPPLIES					
128	Mixta MMM 2180	Stainless Steel Mayo Stand / Height-Adjustable / On Casters	01	54,766.67	54,766.67
129	Mixta MSK 7001	Double Basin Stand / Stainless Steel	02	37,857.14	75,714.29
130	Mixta MPCK 1110	Pedal-Operated Waste Bin	02	53,000.00	106,000.00
131	Welch Allyn 7670-01	Aneroid Sphygmomanometer	02	33,314.29	66,628.57
132	Welch Allyn DS44	Hand-Held Sphygmomanometer	02	36,342.86	72,685.71
133	Mixta MAM 2122	Instruments Trolley 70x50x80 3 Shelves Stainless Steel	02	53,000.00	106,000.00
134	Welch Allyn 5079-122	Stethoscope	05	18,171.43	90,857.14
135	Welch Allyn 12851	Ophthalmoscope Set	05	63,600.00	318,000.00
136	Welch Allyn 22841	Otoscope Set	05	57,542.86	287,714.29
137	Welch Allyn 69696	Laryngoscope with Blade	03	54,514.29	163,542.86
138	7E-A, Life- Care (Imported)	Suction Apparatus	03	68,142.86	204,428.57
139	CareVision	Stretcher- local	08	98,428.57	787,428.57
140	Model 801, (Imported)	Wheel Chair	04	36,342.86	145,371.43
141	Mixta MSA 4060	I/V Pole	15	27,257.14	408,857.14

Suleman



142	Flamingo (Imported)	Cervical Collars	03	27,257.14	81,771.43
143	Spine LP (Imported)	Lumber Puncture Needle	10	18,171.43	181,714.29
144	Geotech, Turkey	Aspiration Needle	10	18,171.43	181,714.29
145	Hosi Tech (Imported)	Trocar and Cannula	15	15,142.86	227,142.86
146	BE-1303, (Imported)	Ambu- Bag	10	12,114.29	121,142.86
147	Beurer Digital Baby Scale JBY 80	Weighting Machine (Infant)	01	18,171.43	18,171.43
148	Camry ZT-160 Weight Scale	Weighting Machine (Adult)	01	18,171.43	18,171.43
149	107BN (Imported)	Binocular Microscope	05	181,714.29	908,571.43
150	MicroLoop Carefusion	Spirometer	02	189,285.71	378,571.43
151	PharmChem (Imported)	Test Tube Holder	05	1,514.29	7,571.43
152	PharmChem (Imported)	Test Tube Brush	05	908.57	4,542.86
153	PharmChem (Imported)	Test Tube Stands	05	1,817.14	9,085.71
154	Surgi Med, Imported	Mouth Gag	05	1,211.43	6,057.14
155	PharmChem (Imported)	Needle Cutter	02	1,817.14	3,634.29
156	Beurer Infrared Lamp - IL-11	Heating Lamps	01	9,842.86	9,842.86
157	Beurer HK Comfort Heating Pad - White	Electric Heating Pads	01	5,148.57	5,148.56
158	UVCN (Imported)	Infrared Lamp	01	6,360.00	6,360.00
159	FreeStyle Blood Gluco Meter by Abbott	Ultraviolet Lamp	01	5,905.71	5,905.71
160	7E-A, Life- Care (Imported)	Glucometer	02	12,114.29	24,228.57

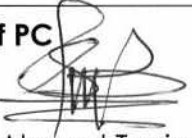
161	Mindray VS 900	Suction Machine	01	68,142.86	68,142.86
162	Spine LP (Imported)	Pulse Oximeter	01	143,857.14	143,857.14
FURNITURE					
163	Qumun Furniture (Imported)	Chairs	150	5,250.00	787,500.00
164	Qumun Furniture (Imported)	Table	50	60,000.00	3,000,000.00
165	Qumun Furniture (Imported)	Stools	25	2,250.00	56,250.00
166	Qumun Furniture (Imported)	Cabinets	16	22,500.00	360,000.00
167	Qumun Furniture (Imported)	Shelves	40	24,000.00	960,000.00
168	Qumun Furniture (Imported)	Doors	35	5,250.00	183,750.00
169	Qumun Furniture (Imported)	Lockers	06	97,500.00	585,000.00
170	Qumun Furniture (Imported)	Partitions	10	18,750.00	187,500.00
CIVIL WORKS (Dept. Theme)					
171	171-A	RENOVATION OF DEPARTMENTS = MASONRY AND FINISHING WORK	One Job	6,525,000.00	6,525,000.00
	171-B	MECHANICAL, ELECTRICAL AND PLUMBING		2,900,000.00	2,900,000.00
	171-C	SANITARY COMPONENTS, FLOORING, CEILING, LIGHTING		5,075,000.00	5,075,000.00
HVAC					
172	Fuji Therma THS-22	Air-cooled electric operated, Reversible Type condensing outdoor units, high C.O.P efficiency (T-3 Series) inverter base compressor with Black Fins condenser, vibration isolators, factory wired weather proof cabinet type control center, atmosphere friendly refrigerant etc. Complete with safety controls and accessories as per specification and drawings. (Note: each unit shall have minimum three separate refrigerant circuits with	01		21,600,000.00

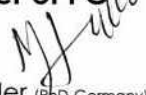
Submittal



	THS-36	separate refrigerant & separate isolation valve.) UNIT-01 25 TR Capacity. (Connected Load) UNIT-02 32 TR Capacity. (Connected Load) UNIT-03 36 TR Capacity. (Connected Load)	
173	Fuji Therma	Indoor units complete with automatic and safety controls and accessories as per drawing and specification. 40 Cassette Units	01
174	Fuji Therma	Supply, installation of Integrated Centralized Remote Controller with Software for Remotely Operation of the Indoor & Outdoor Units. Digital Controllers with all Parameters complete with all respect.	01
175	Imported	Imported fitting and components (Y-Branches & control wiring) complete with all respects.	01
176		Supply, Installation, Testing & Commissioning of Copper Piping with Isolation valve & 3/4" thick foam insulation, cladding, pipe supports & pipe sleeves complete with all respects as per drawings & specification.	01
<i>With the above equipment+ Engineering, Installation, and Integration cost with comprehensive three years warranty.</i>			Rs. 147,528,814/=


M/S BIOTECH Pakistan qualified technically hence recommended for the award of contract.

Member & Secretary

 Suhail Ahmed Abbasi
 Planning, Procurement & Logistics Officer
 SMBB Medical University, Larkana

Member of PC

 Sarfraz Ahmed Tunio
 Accounts Officer
 SMBB Medical University, Larkana

External Member of PC

 Dr. Mansoor Hyder (PhD-Germany),
 Associate Professor ITC
 Director (C&NS)
 SAU, Tandojam.

External Member of PC

 Dr. Asadullah Makhdoom,
 Associate Professor/Director, Skill Lab
 LUMHS, Jamshoro.

Chairman PC

 Prof. Dr. K. Das,
 Professor of Surgery
 SMBB Medical University, Larkana.