



PURCHASE ORDER																									
Supplier:	CRITEHCARE MEDICAL SUPPLY AND SERVICES		P.O. No.:	PB 2021-08-054																					
2018Address:	Davao City		Date:	September 01, 2021																					
E-mail Add:			Mode of Procurement:	Public Bidding																					
Telephone No.:			PR No.:	PB-21-027																					
TIN:			Abstract of Convoase No.																						
Gentlemen: Please furnish this office the following articles subject to the terms and conditions contained herein																									
Place of Delivery:	ASTMMC City		Delivery Term:	30 Calendar days																					
Date of Delivery:			Payment Term:																						
Stack No.	Unit	Description	QTY	UNIT COST	AMOUNT																				
1	units	ECG Machine 12 Channel with Interpretation Brand: ARI Model: ECG-C12B	2	90,000.00	180,000.00																				
<p>PURPOSE OF USE Clinical or other Purpose: Continuously detect, measure, and display a patient's electrocardiogram (ECG) through leads and sensors attached to the patient Overview of Functional Requirements: Continuous display of patient ECG and heart rate on screen. Allows display of single, 3 lead ECG or simultaneous display of at least 3 waves selected from up to 12 points. Operator can set audiovisual alarm levels for low or high heart rate. Operates from mains voltage or from internal rechargeable battery. Patient connectors that are sterilisable and reusable are preferred, though reusable cables that attach to disposable connection patches are also acceptable Hard copy printout of traces will be required. Personal computer connection with accompanying software. Provides Bond paper print out (A4, Letter of Legal size) Software to perform averaging, analysis, text interpretation</p> <p>TECHNICAL CHARACTERISTICS</p> <table border="0"> <tr> <td>Display</td> <td>7" 800x480 graphic colour screen or touch panel atleast</td> </tr> <tr> <td>Dimensions of display</td> <td>116 x 89 mm atleast</td> </tr> <tr> <td>Screen resolution</td> <td>640 x 480 px atleast</td> </tr> <tr> <td>Keyboard</td> <td>combined alphanumeric and functional touch screen buttons</td> </tr> <tr> <td>Electrode contact control</td> <td>indication of contact of each electrode</td> </tr> <tr> <td>Interface</td> <td>RS 232, USB, LAN, WIFI</td> </tr> <tr> <td>Dimensions</td> <td>330 x 270 x 72 mm atleast</td> </tr> <tr> <td>Weight approx.</td> <td>3.8 kg atleast</td> </tr> </table> <p>PRINTER</p> <table border="0"> <tr> <td>Paper width</td> <td>210 mm *20m roll paper (standard) 210mm *140mm Z-Fold (Optional)</td> </tr> <tr> <td>Paper type</td> <td>roll/A4-office paper</td> </tr> </table>						Display	7" 800x480 graphic colour screen or touch panel atleast	Dimensions of display	116 x 89 mm atleast	Screen resolution	640 x 480 px atleast	Keyboard	combined alphanumeric and functional touch screen buttons	Electrode contact control	indication of contact of each electrode	Interface	RS 232, USB, LAN, WIFI	Dimensions	330 x 270 x 72 mm atleast	Weight approx.	3.8 kg atleast	Paper width	210 mm *20m roll paper (standard) 210mm *140mm Z-Fold (Optional)	Paper type	roll/A4-office paper
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Print type	thermal/external laser or ink printer		
Paper speed	5, 10, 25, 50 mm/s atleast		
SIGNAL PROCESSING			
Number of channels	12		
Number of leads	12 lead		
Displayed leads	3, 6, 12		
Printed leads	3, 4, 6, 12, 3 x 4 + 1, 3 x 4 + 2, 3 x 4 + 3, 4 x 3 + 1, 6 x 2 + 1, 6 x 2 + 2		
Transmission in automatic mode	real-time, synchronic		
Pacemaker detection	yes		
Sensitivity	2.5, 5, 10, 20 mm/mV		
Stored records (10-sec long strips)	250 (minimum), 400 (typical)		
Long ECG recording 1 lead/2 leads	10/10 min		
DIGITAL FILTERS			
Adaptable mains filter	50-60 Hz		
Muscle tremor filters	35, 25 Hz		
Baseline filters	0.05 Hz (3.2 s), 0.11 Hz (1.5 s), 0.25 Hz (0.6 s), 0.50 Hz (0.3 s), 1.50 Hz (0.1 s), splines		
Automatic	auto-adaptive		
TECHNICAL SPECIFICATIONS			
Mains supply	115/230 V, 50-60 Hz		
Frequency response	0.05-170 Hz		
Digital resolution	3.9 µV		
A/D conversion	13 bits		
Sampling frequency	2000 Hz		
ECG			
Pacemaker detection	100 µs / dedicated circuit with 40000 Hz detection function		
Dynamic range	15.9 mV		
Polarisation voltage	± 400 mV		
Max. consistent voltage	± 5 V		
Input impedance	> 20 MOhm		
Common mode rejection	> 98 dB		
Accumulator capacity	automatic: up to 30 prints manual: up to 30 minutes of printing		
	Signal monitoring: up to 90 minutes		
Charging time	approx. 4-6 hours (if completely discharged)		



SUMMARY OF AVAILABLE OPTIONS

Diagnostics (includes: averaging, analysis, text interpretation)	YES
PC connection with software ECG	YES
Ergometry with software	YES

Displayed parameters

Arrhythmia detection basic,
 Numeric display,
 Graphical and numerical trends,
 Physiological curves display

SOFTWARE AND FREE LICENSE

Fully assembled and ready to install ECG Machine

Two large bins underneath to keep extra supplies in, such as extra lead wires, electrodes and paper

Two large side bins to keep your patient interface module organized, and hold additional supplies

Large drawer holds extra paper, forms, and additional supplies

Durable, lockable casters allow you to move the cart smoothly from room to room and lock it in place when taking an ECG. Handles on the front and back of the unit help to maneuver it into place even in tight spaces

PHYSICAL/CHEMICAL CHARACTERISTICS

Mobility, portability(if relevant)

Wired patient cable connections will be preferred above wireless connection

ACCESSORIES, CONSUMABLES, SPARE PARTS, OTHER COMPONENTS

Accessories

12 lead Patient ECG cable for resting ECG

1 set per unit Suction ball-type reusable chest electrodes;

1 set per unit Extremity clamp reusable electrodes;

Preferably with 1 pc ECG bag per unit

1pc 16GB USB

Sterilization process for accessories

cleaning and disinfection

Consumables / reagents (per unit)

1 pc Conductive gel.

5 rolls Graph paper/Thermal Paper roll for printing.

Electrodes for adults, neonate and children.

Spare parts



<p>(2) Two sets of spare fuses per units (if non-resettable fuses used). Medical units select them according to their needs, ensuring compatibility with the brand and model of the equipment. 1 pcs/unit rest ECG patient cable per units with at least 6 Leads with Clamp and Suction Electrodes. 1 set per unit of spare rechargeable batteries</p> <p>Other components Transport trolley per unit With Free Software & License no expiration 1 unit UPS with AVR atleast 1500VA up provide Adaptor if needed per unit</p> <p>TRAINING, INSTALLATION AND UTILISATION <u>Requirements for commissioning</u> *** Supplier to perform installation, safety and operation checks before handover *** Local clinical staff to affirm completion of installation</p> <p><u>Training of users</u> *** Training of users in operation and basic maintenance and calibration shall be provided *** Supplier to issue Certificate of Training *** Advanced maintenance tasks required shall be documented</p> <p><u>User care</u> *** Unit layout to enable easy cleaning and sterilization of all surfaces.</p> <p>WARRANTY AND MAINTENANCE <u>Warranty</u>: 2 years warranty <u>Maintenance tasks</u>: Every Quarterly Preventive Maintenance</p> <p>DOCUMENTATION <u>Documentation requirements</u> *** User, technical and maintenance manuals to be supplied in English language (3 copies each) *** Supplier to describe any materials contained in the device that are classified as hazardous under local regulations. *** List to be provided of important spares and accessories, with their part numbers and cost. *** List to be provided of equipment and procedures required for local calibration and routine maintenance *** Certificate of calibration and inspection to be provided. *** List to be provided of important spares and accessories, with their part numbers and cost *** Contact details of manufacturer, supplier and local service agent to be provided</p> <p>DECOMMISSIONING <u>Estimated Life Span</u>: 5 years Life Span</p> <p>SAFETY AND STANDARDS <u>Risk Classification</u> Class B (GHF Rule 10), Class II (USA); Class II (EU, Japan, Canada and Australia) <u>International standards</u></p>					
2	unit	CTG Machine with Full Trolley Brand: ARI; Model: AFM-800P	1	110,000.00	110,000.00
<p>PURPOSE OF USE: Cardiotocography (CTG) is a technical means of recording the fetal heartbeat and the uterine contractions during pregnancy. The machine used to perform the</p>					



monitoring is called a cardiotocograph, more commonly known as an electronic fetal monitor (EFM).

TECHNICAL CHARACTERISTICS

Display Specifications			
Display	12.1 inch TFT Color Screen Folding up to 90 Degree		
Resolution	RGB		
Ultrasound			
Technique	Ultrasound pulse doppler with Autocorrelation		
Pulse repetition Rate	2 KHz		
Ultrasound Frequency	1.0MHz ± 10%		
Accuracy	± 2bpm		
Iob	<10mW/cm ²		
TOCO			
Toco range	0%-100%		
Non-linear error	≤ 10%		
Resolution	1%		
Zero Mode	Automatic/Manual		
AFM			
Technique	Pulsed Doppler ultrasound		
Range	0-100(%)		
Resolution	1%		
HR			
Measurement Range	30bpm-240bpm		
Measuring Accuracy	± 2 bpm		
Recorder			
Recording Paper	Z-fold, 150/152mm thermosensitive paper		
Recording Speed	1/2/3 cm/min, 25mm/sec for history data		
Power Supply			
Operating Voltage	220-240V		
Operating Frequency	60Hz		
Battery Operated	Yes		
Battery Rechargeable	Yes		
Configuration			
Twins FHR	YES	FM	YES
TOCO	YES	AFM	YES
UTILITY REQUIREMENTS:			
Power supply: AC 220V ± 10% 50/60Hz			
Accessories per unit			
Fetal Movement Counter/ Abdominal Transducer / The 'TOCO' /Fetal Kick Probe			
1 unit AVR 1000VA			
Consumables / reagents			
20 rolls Thermal Paper or 2 packs printer paper			
2 Packs printer paper.			
1 Ultrasound gel.			
Spare parts per unit			



1 unit Fetal Movement Counter		1 unit Abdominal Transducer			
1 unit TOCO Probe					
TRAINING, INSTALLATION AND UTILISATION					
Requirements for commissioning					
*** Supplier to perform installation, safety and operation checks before handover					
*** staff/end-user and biomed technician in coordination with the engineering department to affirm completion of installation					
Training of users: *** Training of users in operation, basic and advance maintenance shall be provided					
User care: Casing to be splash proof and cleanable with alcohol or chlorine wipes					
WARRANTY AND MAINTENANCE					
Warranty: Maintenance and Service = at least 1 year					
DOCUMENTATION Requirements					
- User, technical and maintenance manuals to be supplied in English language - at least 3 copies					
- Certificate of calibration and inspection to be provided					
- List of equipment and procedures required for local calibration and routine maintenance to be provided by the supplier					
- List of important spare parts and accessories, with their part numbers and cost to be provided by the supplier					
- Trade-in with manufacturer if available					
DECOMMISSIONING					
Estimated Life Span: 10 years					
SAFETY AND STANDARDS					
Regulatory Approval / Certification					
Should be a CE or UL approved product.					
*Manufacturer / supplier should have ISO certificate for quality standard.					
Electrical safety conforms to standards					
3	units	SYRINGE PUMP Brand: ARI; Model: ASP-1500	4	40,000.00	160,000.00
PURPOSE OF USE:					
Clinical or other Purpose:					
A syringe pump controls the flow rate and the distance between the spinneret and collector screen is appropriately tuned, so that the jet has enough distance to travel in order to facilitate plastic deformation.					
Department: Hospital					
Overview of Functional Requirements					
Syringe pump is designed for precise dosage of drugs and infusion fluids to the patient. It is intended for: • Intensive care units, • Cardio surgery units, • Pediatric units, • Operating theatres • Ambulances. The pump is simple to operate, reliable and is of general application. It is suitable for various types of single-use syringes. BOLUS function enables quick and repeated delivery of bolus doses to the patient, with accurately established volume and within a specified infusion time. Pump can operate without connection to the mains. The pump is automatically supplied by the internal battery in cases, e. g. of mains failure. It also enables to continue the infusion when the patient is being transported. Simple casing, without any parts protruding from the front panel, facilitates maintenance and disinfection.					




TECHNICAL CHARACTERISTICS	
<u>Detailed Requirements:</u>	
1. Should be easy to use and nurse friendly.	
2. Should have automatic syringe size and model detection	
3. Should have large format LCD/TFT display.	
4. Should have a minimum flow rate range from 0.1 – 1200 ml/hr for 50ml syringe, 0.1 – 100 ml/hr for 20ml syringe and 0.1 – 60 ml/hr for 10ml syringe.	
5. Syringe range from 20-50/60 ml.	
6. Should have a flow rate accuracy of ±2%	
7. Should have a bolus rate up to 1000ml/hr for 50 ml syringe.	
8. Should have automatic and manual bolus.	
9. Should have at least 3 levels of programmable occlusion pressure.	
10. Should have automatic bolus reduction system to avoid accidental bolus delivery after occlusion incident.	
11. Should have a rechargeable battery with back up time of minimum 3 hours.	
12. Pump must trigger following alarms with visual indication:-	
i. Occlusion Pressure Alarm	
ii. KVO or 3 min pre- alarm	
iii. Syringe empty and volume infused alarm	
iv. Internal malfunction and Battery Charge Low Alarm	
v. Syringe disengaged and incorrectly placed alarm	
vi. Alarm loudness control.	
vii. No mains	
viii. Line disconnected (rapid pressure drop).	
13. Should work with input 200 to 240Vac 50 Hz supply.	
14. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report	
from ERTL. Copy of the certificate / test report shall be produced along with the technical bid	
<u>Accessories per unit</u>	
<u>Sterilization process for accessories</u>	
Chemical sterilization- non corrosive chemical / disinfectant	
<u>Consumables / reagents</u>	
WARRANTY AND MAINTENANCE	
<u>Warranty</u> : 2 years warranty	
<u>Requirements for commissioning</u>	
*** Supplier to perform installation, safety and operation checks before handover	
*** Staff/end-user and biomed technician in coordination with the engineering department to affirm completion of installation	
SAFETY AND STANDARDS	
<u>Risk Classification</u>	
<u>Regulatory Approval / Certification</u>	
Should be a CE or UL approved product.	
*Manufacturer / supplier should have ISO certificate for quality standard.	
Electrical safety conforms to standards.	
<u>Sterilization process for accessories</u>	
Chemical sterilization- non corrosive chemical / disinfectant	



Republic of the Philippines
 Department of Health
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 Capitol Hills, Talaja, Tandag City, Surigao del Sur
 Telefax No. 086-211-4306
 E-mail: astmmc_hbac@yahoo.com.ph
 Facebook Account: AstmmcProbac



Regulatory Approval / Certification Should be FDA, CE or UL approved product. *Manufacturer / supplier should have ISO certificate for quality standard. Electrical safety conforms to standards for electrical safety Conforms to IEC-61010 International standards ISO Certified		
Total Amount in Words	<u>Four Hundred Fifty Thousand Pesos Only.</u>	450,000.00
<i>In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one (1) percent for every day of delay shall be imposed:</i>		
Conformed:	Very truly yours,	
 M. M. GABER Signature over printed name of supplier Date: <u>9/20/21</u>	PANILO JORGE M. TREMEDAL III, MD, MHA, FPCHA, FPSMSI, FPSMSG Medical Center Chief I	
Checked & Verified by:  RUPERT B. DUMAGO, CPA AC/Procurement Officer	Fund Cluster: <u>Regular Agency-SAA</u> Funds Available:	ORS/BUR NO.: <u>201-09-163</u> Date of the ORS/BUR: <u>9/20/21</u> Amount: <u>₱ 450,000.00</u>

