PURCHASE REQUEST

Entity Name: **MARIVELES MENTAL HOSPITAL** **Fund Cluster** : 01 (SAA 2020-04-0835)

Office/Section : con-drr	PR No.: 20050283 Responsibility Center Code : con-drr	Date: 13 May 2020 18 MAY 2020

Stock/ Property No.	Unit	Item Description	Quantity	Unit Cost	Total Cost
	set	Ordinary Laryngoscope	2	35,000.00	70,000.00
	set	Video Laryngoscope (see attached specification)	1	2,000,000.00	2,000,000.00
	unit	2D Echo (see attached specification)	1	2,600,000.00	2,600,000.00
	unit	Cardiac Monitor (see attached specipication)	20	200,000.00	4,000,000.00
	unit	HEPA Filter Machine	5	1,000,000.00	5,000,000.00
	pc	High Flow Oxygen Nasal Canula	150	2,500.00	375,000.00
		TOTAL			14,045,000.00

Purpose: Procurement of Various Medical Equipment relative to COVID-19 Health Event in compliance to Department Order No. 2020-0190 per attached Annex A.

	Requested by:	Approved by:
Signature :		
Printed Name :	**ROLLY I. CARAIG**	**MARIA LOURDES L. EVANGELISTA, MD, FPPA**
Designation :	Administrative Assistant III	Chief of Hospital II

ZFA / VAI

FUNDS AVAILABLE

LAARNI DC MAGLAQUI, MBA
SAO Budget Unit

Republic of the Philippines
Department of Health
Health Facility and Infrastructure Development Team
HEALTH FACILITIES ENHANCEMENT PROGRAM

TERMS OF REFERENCE

Name of Project

Supply, Delivery, Testing and Commissioning of Brand New

VIDEO LARYNGOSCOPE

(Procurement under RA No. 11469)

Technical Specifications

1. Grip handle: Must be of the classic pistol grip type

2. Blades
   a) At least 2 curved blades sizes for adult
   b) At least 2 curve blade sizes for pediatric
   c) One straight blade size

3. The blade lens must have an anti-fog system

4. Video screen monitor
   a) Must be at least 7 inch size
   b) 1920x1080 pixel resolution
   c) With video quality adjustments and multimedia interface.
   d) The monitor must be mounted on a pole stand using a mounting clamp for height adjustment. The pole stand must have at least 4 caster wheels with locking brakes and a basket.
   e) The connection between the monitor and blade lens must be through RCA cables at least 20 inches length.

5. Power supply: Rechargeable battery with battery charger, 220V, 60Hz.

6. Non-removable embossed DOH letters on the visible part of the equipment.

Documentary Requirements

1. Product brochure or technical data sheet(s) of the equipment showing the technical specifications in English language.

2. Valid and current Certificate of Compliance of manufacturer of the equipment with the latest version of ISO 13485: *Quality Management System – Requirements for regulatory purposes* in the name of the **manufacturer**. The Certificates must be issued by an independent Certifying Body/Agency.

3. Valid Marketing Authorization, Registration Approval or Free Sale Certificate for each equipment issued by the Health Authority in the country of origin.

4. Valid Certificate of Distributorship (as first Tier Distributor) issued by the Manufacturer of each equipment authorizing the bidder to sell/distribute the offered equipment.

5. Proof (such as sales invoice) that the Brand of the equipment has been sold to other health facilities in the Philippines.

6. Notarized Certificate from the bidder:

   a) That the brand of the equipment has been in the local and/or international market for at least ten (10) years.

   b) That the equipment and its accessories are brand new, unused, not discontinued models and were not subjected to any product recall.

   c) Bidder's valid and current License to Operate (LTO) as a medical device distributor issued by the Philippine Food and Drug Administration. In case of expired LTO, the following must be submitted: i) Copy of expired LTO, ii) Application for renewal, iii) Official Receipt as proof of payment for the renewal of LTO

Requirements if awarded the Contract

1. **Completion period:** The delivery, testing and commissioning of the equipment and its accessories, including the training of end-users and maintenance staff must be completed within [redacted] **calendar days** upon receipt of the Notice to Proceed.

2. **Testing:** Prior to acceptance, the end user shall conduct a physical inspection and functionality test. The equipment must be functioning and must have no physical damage and defect.

3. **Training:** The supplier shall provide an orientation/training on the proper use and maintenance of the equipment to the end-users.

4. **Warranty:** Warranty certificate for one (1) year on parts and on services. The supplier shall either repair or replace any item or part in the equipment that is found to be defective in material or in workmanship under normal use. The warranty period shall commence from the date of acceptance by the end-user after testing and commissioning.

5. **Manuals**: The supplier must the Operations Manual in English language provide the end-user.

Prepared by: **Eric N. Urbano, REE, MPA**
Engineer IV
Health Facilities Enhancement Program

Reviewed and recommended by:

Dr. Enrico P. Ragaza
Amang Rodriguez Memorial Medical Center

Engr. Nilo Marayag
Jose N. Rodriguez Memorial Hospital

Dr. Sullian Naval
Lung Center of the Philippines

Dr. Alfonso Danac
Jose B. Lingad Memorial Regional Hospital

Mr. Fidel John Casenas
Quirino Memorial Medical Center

Approved by:

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LEONITA P. GORGOLON, MD, MHA, MCHM, CEO VI
Director IV
Health Facilities Enhancement Program

Republic of the Philippines
Department of Health
Health Facility and Infrastructure Development Team
HEALTH FACILITIES ENHANCEMENT PROGRAM

TERMS OF REFERENCE

Name of Project

Supply, Delivery, Installation, Testing and Commissioning of Brand New

MULTI-PARAMETER PATIENT MONITOR

(Procurement under RA No. 11469)

(As of 12 May 2020)

Technical Specifications

A. Display Monitor

a) At least 12 inches size
b) Color TFT touch screen
c) Capable of displaying 4 to 6 waveforms

B. ECG/Cardiac Monitoring

a) ECG waveform display (at least 3 waveforms; Lead I, Lead II, Lead III) and with corresponding beep sound on each QRS waveform.
b) Heart rate display
c) With Arrhythmia Analysis, ST Calculation and Pace Analysis
d) Lead selection switch
e) Sensitivity switch: 2.5 to 20 mm/mV
f) Filter switch for interference from:
    i. Mains power frequency
    ii. Low and high pass signal
g) Common Mode Rejection (CMR): more than +100dB.
h) ECG signal measurement range: -2 mV to +2 mV.
i) Frequency range: At least 0.67 to 150 Hz or wider range
j) Input impedance: 2.5 MΩ at 10Hz
k) Frequency response: -3db at0.05 Hz to 100Hz
l) Automatic internal data storing for at least 40 ECG records.
m) ECG leads connector for at least 3-lead patient cable (protection from interference)
n) Patient cable with at least 3 leads and with electrical screening.
o) EGC recorder/printer capable of printing at least 4 waveforms simultaneously, Arrhythmia Analysis, ST Calculation and Pace Analysis and heart rate, etc.

C. Pulse Oximeter

a) Hinge finger probe or rubber finger probe and ear sensors for adult, pediatric and infant use. The connection of the probes to the main unit must have locking mechanism.
b) Oxygen saturation (SpO_2): 70 to 99% with minimum graduation of 1%.
c) Pulse rate in beats per minute (bpm). Pulse rate range at least 30 to 240 bpm, with minimum gradation of 1 bpm.
d) Pulse waveform or indicator that illustrates the strength of pulse being detected.
e) SpO_2 limit alarm activation settings
f) Pulse rate limit alarm activation settings

g) Alarm sound level adjustment and alarm override and temporary silence control.
a. Accuracy of SpO_2 measurement: ± 3%
h) Accuracy of pulse rate measurement: ± 5 bpm

D. Temperature Measurement

a) Digital thermometer temperature probe
b) Body temperature measured at degrees Celsius with measurement range of 32 – 43 °C
c) Measurement accuracy: +/- 0.1°C between 35°C to 41°C

E. Non-Invasive Blood Pressure Monitor (oscillometric method)

a) Inflatable rubber cuff surrounded by durable and flexible cover and with Velcro strips
b) Rubber tubes with at least 30cm in length
c) Systolic and diastolic blood pressure measurement with a maximum pressure reading of 300mmHg
d) Reading accuracy: ± 5 mmHg or better
e) Measures blood pressure at least every 10 minutes

F. Respiratory Monitoring

a) Thoracic impedance measurements via ECG leads
b) Breaths per minute with measurement range of 0-120 BPM
c) Respiratory waveform display
d) Measurement accuracy: ±3 BPM or better

G. Safety Features

a) Protection against defibrillation and electrosurgical equipment
b) Equipment compatible with patients with pacemakers
c) Degree of protection against electrical shock: Type CF
d) **Alarms** (the equipment must have an alarm setting switch and sound adjustment switch)
   i. Arrhythmia
   ii. Ventricular fibrillation
   iii. Tachycardia
   iv. Bradycardia
   v. Electrode and/or sensor disconnection.
   vi. High and low SpO_2
   vii. High and low pulse rate
   viii. Sensor failure
   ix. Apnea Alarm
   x. Low battery

H. Power Supply

a) Autovolt at 100 – 240V AC, 60 Hz or 220V, 60Hz with an external Automatic Voltage Regulator (AVR) wat least 1 KVA capacity
b) With internal re-chargeable backup battery that can allow the equipment to operate up to 3 hours

I. Mobility

Mounted on a pole stand or cabinet cart with 4 anti-static and rust-free swivel wheels with two locking brakes cart with brakes.

J. Accessories

a) Protective case
b) Two (2) sets of ECG electrodes

K. Non-removable embossed DOH letters on the visible part of the equipment.

L. IF CENTRAL MONITORING IS REQUIRED BY THE PROCURING ENTITY

a) The Patient Monitor must have a provision for telemetry data transmission for central monitoring

b) **Central Station Monitoring System**

i. Display Monitor : Color LED touch screen with resolution of at least 1920 x 1080 pixels and at least 32 inch size
ii. Data reception must be through telemetry
iii. With licensed Operating System software
iv. Capable of receiving and displaying data simultaneously from at least 16 patient monitors
v. Capable of trend review per patient
vi. Capable of alarm history review
vii. Capable of freezing data for further review and analysis
viii. Capable of graphic and tabular data trend presentation
ix. CPU: at least 2 processors with minimum of 4 cores and 4 threads , minimum of 2.6 GHz
x. RAM: at least 16 GB
xi. Video Card: at least 4GB video RAM
xii. Hard drive/storage: at least 2TB
xiii. USB ports
xiv. Licensed Operating System (OS)
xv. 220V, 60Hz
xvi. Accessories: Keyboard, mouse, external speaker, Automatic Voltage Regulator, laser printer

Documentary Requirements

1. Product brochure or technical data sheet(s) of the equipment showing the technical specifications in English language.

2. Valid and current Certificate of Compliance of manufacturer of the equipment with the latest version of ISO 13485: Quality Management System – Requirements for regulatory purposes in the name of the **manufacturer**. The Certificates must be issued by an independent Certifying Body/Agency.

3. Valid and current Certificate of Compliance and/or Test Report on the latest version of IEC 60601-2-27 Particular requirements for the basic safety and essential performance of electrocardiographic Monitoring equipment. The Certificate and/or Test Report must be issued by an independent Certifying Agency.

4. Valid Marketing Authorization, Registration Approval or Free Sale Certificate for each equipment issued by the Health Authority in the country of origin.

5. Valid Certificate of Distributorship (as first Tier Distributor) issued by the Manufacturer of each equipment authorizing the bidder to sell/distribute the offered equipment.

6. List and address of the equipment Manufacturer's branch office, sales office and/or distributor's office in Western Europe, USA (or Canada) or Japan.

7. Proof (such as sales invoice) that the Brand of the equipment has been sold to other health facilities in the Philippines.

8. Notarized Certificate from the bidder:
   a) That the brand of the equipment has been in the local and/or international market for at least ten (10) years.
   b) That the equipment and its accessories are brand new, unused, not discontinued models and were not subjected to any product recall.

9. Bidder's valid and current License to Operate (LTO) as a medical device distributor issued by the Philippine Food and Drug Administration. In case of expired LTO, the following must be submitted: i) Copy of expired LTO, ii) Application for renewal, iii) Official Receipt as proof of payment for the renewal of LTO

Requirements if awarded the Contract

1. **Completion period:** The delivery, installation, testing and commissioning of the equipment and its accessories, including the training of end-users and maintenance staff must be completed within [redacted] calendar days upon receipt of the Notice to Proceed.

2. **Testing:** Prior to acceptance, the end user shall conduct a physical inspection and functionality test. The equipment must be functioning and must have no physical damage and defect.

3. **Training:** The supplier shall provide a training on the proper use and maintenance of the equipment to the end-users and to the hospital maintenance staff.

4. **Warranty:** Warranty certificate for two (2) years on parts and on services. The supplier shall either repair or replace any item or part in the equipment that is found to be defective in material or in workmanship under normal use. The warranty period shall commence from the date of acceptance by the end-user after testing and commissioning.

5. Notarized undertaking that the supplier shall conduct the necessary corrective maintenance within five (5) calendar days upon notification of equipment breakdown from the end-user. The undertaking shall include a statement that the number of days where the equipment is unusable due to defective material or workmanship, shall be added to the warranty period.

6. **Manuals**: The supplier must provide the end-user one (1) hard and one (1) soft copy of the following:
   a. Service manual in English language
   b. Operations manual in English language

Prepared by: **Eric N. Urbano, REE, MPA**
Engineer IV
Health Facilities Enhancement Program

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Director IV
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Republic of the Philippines
Department of Health
Health Facility and Infrastructure Development Team
HEALTH FACILITIES ENHANCEMENT PROGRAM

TERMS OF REFERENCE

Name of Project

Supply, Delivery, Testing and Commissioning of Brand New
TWO (2) DIMENSION ECHOCARDIOLOGY SYSTEM (2D ECHO)
(Procurement under RA No. 11469)

Technical Specifications

TWO (2) DIMENSION ECHOCARDIOLOGY SYSTEM (2D ECHO)

1. **Physical Characteristics**
   a. At least 15 inch monitor that can be tilted up to -10 degrees and +65 degrees and can be rotated by at least -90 and +90 degrees
   b. With keyboard for easy patient data annotation and report entries.
   c. With trackball for fast and easy control of equipment functions
   d. With built-in image printer and built-in digital image archiving
   e. With built-in DVD writer and with USB port
   f. Mounted on a cart with 4 anti-static wheels with brakes
2. **Power Supply**
   220V, 60 Hz with at least 2 KVA Uninterruptible Power Supply (UPS) that can provide back-up power of up to 30 minutes
3. **Technical Characteristics**

   A) Displays/Indicators:

   1. **Display channel**
      Electrocardiogram (ECG) amplifier and display in addition to at least one other physiological channel amplifier display
   2. **Adequate resolution**
      a. Adult
         i. Axial less than 0.5 mm at all depths and less than 2mm in focal zones
         ii. Slice thickness of less than 8 mm at all depths
      b. Pediatric
         i. Axial less than 0.3 mm, lateral less than 3mm at all depths and less than 1mm in focal zone
         ii. Slice thickness of less than 5 mm at all relevant depths

3. **Multiple image display**
   Capable of displaying at least two images in same mode simultaneously

4. **Multi-mode Display**
   Simultaneous display of B, M spectral, CD and power Doppler modes

B) Functions

1. Brightness (B) mode with tissue harmonic imaging
2. Focal level/Focal depth adjustment
3. Adjustment of frequency range on all transducers
4. Capability to select at least three transducers without physical removal and reconnection
5. Gain and Time Gain Compensation (TGC) control
6. Operator-controlled multiple and adjustable focal zones
7. Provision for scanning pre-sets
8. Measurement of linear and curved distances, areas and volumes
9. Look-up tables to link measurements to relevant clinical applications
10. Cine-loop capability
11. Automatic and manual calculation of waveform indices
12. Capability of operator application presets
13. Magnification using both read and write zoom
14. Freeze and replay capabilities
15. Capability of displaying at least 5 measurements simultaneously
16. Patient identification and entry of other relevant clinical information
17. Capability of displaying, Patient name, Institution Name, Transducer type, date, time, frame rate/persistence, Thermal Index (TI) and Mechanical Index (MI)

C) Modes

1. 2 Dimension (2D), Motion (M) mode
2. Anatomical M mode
3. Continuous Wave (CW) Doppler
4. Pulsed-Waved (PW) Doppler
5. Color Doppler

D) Spectral Doppler: Range gate accuracy of less than 1mm

E) Color Doppler: Adjustable thump filter

F) Microbubble imaging: Suitable scanning mode capability

G) Adequate penetration: At least 15 cm of normal tissue

H) Transducers (*The transducers must have beam steering capability)*

1. Adult Echo Transducer
2. Pediatric Echo Transducer
3. Curved array probe for fetal echocardiography.
4. Adult trans-esophageal probe
5. Neonatal transthoracic probe

Note: The bidder must declare all transducer frequency ranges and applications in the bid specifications.

K) Software and applications for trans-esophageal and echocardiography (including Doppler) and other cardiac function analysis applications (such as lumen border measurement and analysis, mitral valve analysis, etc.) must be installed.

L) The equipment must be compliant with Digital Imaging and Communications in Medicine (DICOM) 3 and must be compatible with color inkjet printers

M) Accessories

1. Thermal printer
2. DVD burner

N) Non-removable embossed DOH letters on the visible part of the equipment.

Documentary Requirements

1. Product brochure or technical data sheet(s) of the equipment showing the technical specifications in English language.

2. Valid and current Certificate of Compliance of manufacturer of the equipment with the latest version of ISO 13485: Quality Management System – Requirements for regulatory purposes in the name of the **manufacturer**. The Certificates must be issued by an independent Certifying Body/Agency.

3. Valid Marketing Authorization, Registration Approval or Free Sale Certificate for the equipment issued by the Health Authority in the country of origin.

4. Valid Certificate of Distributorship (as first Tier Distributor) issued by the Manufacturer of the equipment authorizing the bidder to sell/distribute the offered equipment.

5. List and address of the equipment manufacturer's branch office, sales office and/or distributor's office in any of the following:
   a) Western Europe;
   b) USA or Canada and;
   c) Japan

6. Proof (such as sales invoice) that the Brand of the equipment has been sold to other health facilities in the Philippines.

7. Notarized Certificate from the bidder:
   a) That the brand of the equipment has been in the local and/or international market for at least ten (10) years.

   b) That the equipment and its accessories are brand new, unused, not discontinued models and were not subjected to any product recall.

   c) Bidder's valid and current License to Operate (LTO) as a medical device distributor issued by the Philippine Food and Drug Administration. In case of expired LTO, the following must be submitted:
      i) Copy of expired LTO
      ii) Application for renewal
      iii) Official Receipt as proof of payment for the renewal of LTO

Requirements if awarded the Contract

1. **Completion period:** The delivery, installation, testing and commissioning of the equipment and its accessories, including the training of end-users and maintenance staff must be completed within _____ **calendar days** upon receipt of the Notice to Proceed.

   Note: The Bids and Awards Committee (BAC) and the winning bidder can agree on the number of days for the completion period.

2. **Testing:** The equipment and accessories must be functioning with no physical damage and/or defect. A Performance Evaluation on the must be conducted by the Center for Device Regulation Radiation Health and Research, Food and Drug Administration (FDA) or its authorized representative. The bidder shall be the one to apply for the Performance Evaluation in FDA. Application fees and other expenses for the conduct of the Performance Evaluation shall be borne by the bidder.

   Note: To facilitate the immediate conduct of the performance testing, the BAC and the winning bidder can agree that the testing can be done in a holding place located in Metro Manila large enough to accommodate the 2D Echo machines.

3. **Training:** The supplier shall provide a training on the proper use and maintenance of the equipment to the end-users and to the hospital maintenance staff. The training must consist of familiarization of the equipment controls, displays, functions, settings, etc. Specialized applications training for Doppler and 2D echo and other cardiac capabilities of the ultrasound machine.

4. **Warranty:** Warranty certificate for three (3) years on parts and on services. The supplier shall either repair or replace any item or part in the equipment that is found to be defective in material or in workmanship under normal use. The warranty period shall commence from the date of acceptance by the end-user after testing and commissioning.

5. Notarized undertaking that the supplier shall conduct the necessary corrective maintenance within five (5) calendar days upon notification of equipment breakdown from the end-user. The undertaking shall include a statement that the number of days where the equipment is unusable due to defective material or workmanship, shall be added to the warranty period.

6. **Manuals**: The supplier must provide the end-user one (1) hard and one (1) soft copy of the following:
   a. Service manual in English language
   b. Operations manual in English language

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Engineer IV
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Director IV
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