



**PURCHASE REQUEST**  
Province of Bohol



Department: Provincial Health Office	PR. No: 2021-004 SAI No. OBR No.	Date: February 5, 2021 Date: Date:
Section:		

Item No.	Quantity	Unit of Issue	SAI No.	Estimated Unit Cost	Estimated Cost
1	5	unit	<b>X-Ray Digitalization, GOS, Preview: &lt;2sec., Cycle: 6-9se, 16 bits per pixel, 150um, pixel size: 2,836x2,336 / 2,836x2,832, Image Area Size (in.): 16.8x13.8 / 16.6x16.6", Wired use possible with SE detector cable &amp; MP box Wireless: FP D to console, in room tyup. 33ft range, closed loop, image data only (no patient info). IEEE 802.11in, 2.4 &amp; 5.2 GHz bands, W52/W53/W56/W58) WPA2-PSK encryption w/AES &amp; MAC (unique IP) protocols secure connection, confirmatin &amp; completion of data, handshake pairing to registered FPDs only; LAN wire Ethernet: 10/100/100 Base-T DHCP or Static or Wireless IEEE 802.11 (depending on HOsp. network); Battery: User swappable Lithium ION up to 4 hrs or ~400 images (200 continuous images). standby: 4 hrs, sleep: 7.5, deep sleep: 18.5hrs; 40 lines/cm recommended: 40-44 lines/cm, 80 or more lines/cm useable processing (option) simulates scatter clean up for images acquired without a grid, 352lbs point load; 683lbs distributed; (protective cover required for standing exams; IPX-6, Internatinal protection classification, (not a substitute for normal precautions such as bagging.) Resitance effectiveness can be impaired by wear and drops. FPD cable connector must be fully covered with adapter.; All: single phase 50/60Hz Std 110VAC FPD MP box: 100-240VAC (+/-10%), 200VA or less, console: 115/230VAC (auto), 460VA or less Battery charger: 100-240VAC (+/-10%), 100VA or less; Heat OUTPUT: FPD:316KJ/h console: 324KJ/h (standby); includes detector(s), Battery(s), FPD cable, MP box, Handswitch Interface &amp; FDX console technologist workstation.</b>	3,500,000.00	<b>17,500,000.00</b>
2	1	unit	<b>Digital X-Ray, robust and maneuverable with wide range of movements; 1 unit of wireless digital panel detector in between both wall stand and exam table; flat panel detector provided must be form gadolinium oxysulfide scintillator and/or amorphous silicon type photo-detector; single central/main console unit; color display preview of images (≤6 seconds); easy to operate, patient friendliness, high quality images; specified country of origin with documents; multi-pulse high frequency inverter at least 120kHz; power output (at least 50kW; 500mA at 80kV in 0.1s) mA range selection: 10 to 500 mA. X-ray Tube: high speed rotating anode typ X-ray tube; tube voltage operating range: 40 to 125kV; Dual focus spot size (small focus ≥ 0.6mm; large focuses ≤ 1.2mm); X-ray Tube support and collimator: floor mounted free-standing system, lage color LCD touch panel on the tube support unit with set/change of the following: technique, s-ray tube voltage, s-ray tube current, automatic exposure, x-ray tube rotation rage: angulation: -135° to +135° loct at 0° &amp; ±90 °; all trainings shall be conducted with two weeks from acceptance: 1 year warranty; certification from the suppliers that the spare parts are available for at least 5 years fromthe date of the warranty period.</b>	3,500,000.00	<b>3,500,000.00</b>



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3	1	unit	<b>Portable X-ray</b> , generator type: high frequency, DSP controlled, /FDR SE console constant potential (DC) control of high voltage: closedloop; high voltage range: 40KV-100kV; settable (step size 1kV); accuracy of high voltage: $\leq 5\%$ ; generator frequency: up to 200kHz; high voltage ripple: low frequency ripple $< 4\%$ ; high frequency ripple $< 10\%$ ; high voltage rise time: $< 3\text{mS}$ ; control of tube current: closedloop; tube-head current range: 10mA-100mA; maximum exposure time: 5seconds @ 230Vac/ 11Vac input; minimum exposure time: 10mS; mAs range: 0.1mAs to 250mAs @ 230 Vac/110Vac input; limited to maximum power	6,000,000.00	<b>6,000,000.00</b>
4	1	unit	<b>Pulse Oximeter</b> , provide accurate and continuous monitoring of oxygen concentrations in the blood with many options to provide other parameters for different components, capabilities: SpO2, pulse rate, perfusion index (Pi), Plethysmography with signal quality indicator, measure through motion and low perfusion with accuracy of $\pm 1.5\%$ and $\pm 1.5\%$ , respectively, weight: $< 1.37$ , dimension: 9"x6.5"x4"; LED touchscreen; AC/DC 100-240V, battery operation time: 4 hrs; charging time: 3hours; Lithium ION battery, connectivity: Nurse call, USB 2.0, Data download options; technical characteristics displayed parameters: a. Plethysmograph, b. signal quality indicator, c. battery charging indicator, d. alarms;	400,000.00	<b>400,000.00</b>
5	2	unit	<b>Ultrasound Machine 2D/3D w/ 3D Probe</b> , high resolution 21.5" color LCD monitor, high resolution 12.0" LCD touch screen, fully articulating arm with tilt and swivel, one touch image optimization function for 2D/3D mode and doppler mode; digital beamformer; displayed imaging depth: 0-30cm (probe dependent); minimum depth of field: 0-2cm (probe dependent), maximum depth of field: 0-30cm (probe dependent); continuous dynamic receives focus/continuous dynamic receive aperture; adjustable dynamic range up to 280 dB; shared service (Radiology, OBGyn, Cardiac); transducers: curved array probe, linear array probe, endocavitary probe, adult phased array probe, pediatric phased array probe; accessories: 1.5kVa UPS, medical grade DVD recorder, black and white thermal printer, one(1) bottle ultrasound gel	5,500,000.00	<b>11,000,000.00</b>



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6	3	unit	<b>Fully Automated Chemistry Analyzer</b> , Throughput up to 250 test; number of reagents: 48 total, 24 using 50ml vessels, 24 using 10 or 20ml vessels; refrigerated reagent bay: yes; reaction volume: from 180 to 400uL; reading cuvettes: 32 non disposable optical glass; sample volume: from 18 to 100uL; sampling arms: 1 for serum n reagent; sample tray of position: 78 total,(62 sample - 16 standard and controls; test modes: tandom access bath STAT; test directory: up to 500; cuvette temp control: pultier system Off/30/32/37°C (±0.2°C); vacuum pump: internal; photometer: solid state 10 chanel - reference chanel; photometer sensitivity: ±0.001 Abs; Diluter: ±0.1%; diluter precision: ±0.1; process electronics: USB-RS232 Bioractional + USB Hub + LAN + VGA; built on QC program: yes 3 level know 3 level unknoe; power supply: universal input 100/240 vold 50-60Hz 300 Watt PEC	2,500,000.00	7,500,000.00
7	6	unit	<b>Electrolyte Analyzer</b> , CLIA classification: moderate complexity; configurations: Na/K/Cl/Ca or Na/K/Cl/Li; analysis time: plasma, serum, whole blood: 60 seconds, urine: 90seconds (Na/K/Cl only); sample types: whole blood, derum, plasma, or diluted urine; sample size: 100uL whole blood, serum, plasma or 400uL diluted (1:10) urine; sample temperature: ambient temperature (15-32°C); method: direct (undiluted) measurement by Ion selective electrode (ISE); Calibration: automatic 1-point calibration with every sample or on-demand automatic 2-point calibration every 4 hours; output: 128x64 pixel graphic display: 24 column thermal printer erial port (RS-232 optional); data storage: patient: 125 results; QC: normal: 20 results; low: 20 results; high: 20 results	450,000.00	2,700,000.00
8	1	unit	<b>Chemiluminescence Immunoassay (CLIA) System</b> , reagent feature: flash chemiluminescence label-ABEI, with high sensitivity and long stability, nano magnetic microbeads separation, fast and efficient; main features: thoughput up to 180 test/hour, 24 hours ready to use, time to first result: 17 minutes; modes of operation: random, batch and STAT; sample loading: up to 40 sample tubes, continuous loading, STAT available, barcode reader reconition or analyzer auto numbered, LIS connection, auto read sample info, refrigerated sample area with independent power supply; reagent loading: 9-reagents on board, continuous loading RFID reading all info of reagent, refrigerated area; other features: clot detection, liquid level detection, auto and optional ratio for high sample dilution, constant 37°C incubation; operation system: window 7, Dell compatible (dual-core CPU), color touch screen	2,800,000.00	2,800,000.00



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9	1	unit	<b>Crossmatching Machine</b> , Gel Type, test compatibility for human blood groups: A, B, AB, O; reagents: Matrix Forward grouping and cross match card contains six microtubes prefilled with a gel in suitable buffer containing monoclonal anti-A (clone 11H5), Anti-B (clone 6F9) and Anti-D (IgM) (VI-) (clone P3x61 + TH-28) from microtube 1 to 3. Microtube 4 (ENZ) contains neutral gel for enzyme phase test and microtube 5&6 contains Anti-human globulin reagent (Anti-Human IgG and MonoclonalAnti-C, d clone 12011D10); Principle: as the matrix gel card containing red blood cells is centrifuged under specific conditions, the red blood cells possessing the corresponding antigen will agglutinate in presence of the specific antibody and will be trapped in the gel column. the red blood cells, which do not react are not trapped in the gel column and get settled at the bottom of the microtube. the reactions are then read and graded according to their reactivity pattern.	1,500,000.00	1,500,000.00
10	3	unit	<b>Hemoglobin A1C Machine</b> , Measuring time: 3 to 8 minutes; sample volume: 3 uL to 300 uL; Pack Size: 20 T/kit; memory storage: up to 100,000 test results; display: color touch screen; printer: built-in thermal printer	250,000.00	750,000.00
11	1	unit	<b>ELISA Machine</b> , Semi Automated, analyzer: 276x220x91mm, 1.3kg, 100-240V AC, 50-60Hz Internal & external battery; QC/Calibration: system check cartridge Internal & external controls; throughput: up to 30 test/hour; interface: 7" touch	1,450,000.00	1,450,000.00
12	1	unit	<b>Optical Coagulation Analyzer</b> , Test item: PT INR/APTT/ACT/TT/FIB; sample type: citrated venous whole blood; sample volume: 20 uL; time to result: ≤5 minutes; precision: CV≤5%	300,000.00	300,000.00
13	1	unit	<b>Arterial Blood Gas Analyzer</b> , throughput: results in 1 minute after sample aspiration; sample volume: 110uL; quality control: 3 or 5 levels QC, external electronic simulator; display: 7inch color LCD Display, 800x480; interface: 4 x USB 2.0 host, 1 x PS232, WLAN; Input device: touch screen and barcode scanner; power supply: 100-240VAC, 50-60Hz; battery: 4200mAh rechargeable lithium-ion battery, 50 samples continuous testing; dimension(WxHxD): 238x153x310mm; weight: 3.65kg; operation environment: 10 C-31 C, %RH25%-80%; 700-1066KPa	1,200,000.00	1,200,000.00
14	2	unit	<b>ECG Machine</b> , 6/12 leads ECT display; 1/3 channel on 50/63 mm paper; internal memory to store wave forms and measurements/analysis data for up to 500 examinations	160,000.00	320,000.00
15	3	unit	<b>Cardiotocogram</b> , ultrasound monitors fetal heart rate and a tocodynamometer monitors contraction patterns; transducers use doppler ultrasound; power voltage -240V; probe frequency = 1-3MHz pulse doppler transducer; color screen with touch screen working facility; 24 hours data storage and rechargeable battery for 4 hours working	235,000.00	705,000.00



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16	1	unit	<b>Blood Culture Equipmet, Fully Automated</b> , control and incubation module in a single instrument; capacity: 120 cells (60cells/drawer); operating temperature range: 10°C - 30°C; operating humidity range: 10%-90%; power requirement: 220-240v; heat dissipated: 904 Btu/hour; detects wide range of <u>microorganisms</u>	3,000,000.00	3,000,000.00
17	1	unit	<b>Plasma Extractor</b> , maximum RPM: 10,000/min.; maximum RCG: 18300x9; maximum capacity: 6x1000ml; speed accuracy: ± 20r/min; temp. accuracy: ± 1°C; temp. range: -20°C ~ +40°C; motor: morcroprocessor control, frequency conversion motor; power supply: AC 220V & 110V	750,000.00	750,000.00
18	1	unit	<b>Blood Bank Centrifuge</b> , maximum speed: 6000rpm; maximum RCF: 6680x9; maximum capacity: 6x100ml; speed precision: ±50 rpm; refgrigeration system: flouride free compressor and control valve; operation programme: 16; control and drive system: AC frequency motor, micro-control; temp. control range: -20°C ~ +40°C; total power: 4.0Kw	900,000.00	900,000.00
19	1	unit	<b>Phototherapy Unit with CRIB &amp; Mattress</b> , optimum wavelength of 460nm; uniform light distribution with 11 high intensity LED lamps; lamp tilt: up to 90°; height adjustability: up to 50cm; life of lamp: 30,000 hours; zero noise cooling fan; effective irradiance >30μ W/cm <sup>2</sup> ; easy installation, low maintenance, compact	160,000.00	160,000.00
20	1	unit	<b>T3T4 TSH Machine</b> , method; enzyme immuneassay, chemiluminescence; principle: TSH: sandwich assay, T3&T4: competitive assay; sample type: serum or plasma; calibrators: T3: 0,0.5, 1.0, 2.5, 5.0, 7.5 ug/ml; T4: 0,2.0, 5.0, 10.0, 15.0, 25.0 ug/dl, TSH: 0,0.5/2.5,10, 20, 40 uIU/ml; reading: RLUs; total time: 50 minutes; storage: 2-8°C; kit contents: complete for tests	500,000.00	500,000.00
21	1	unit	<b>Defibrillator</b> , low energy diphasic defibrillator to deliver shocks from 2 Joules to 200 Joules, defibrillate though paddles, montoris ECG though paddles, electrodes; compensate for cody impedance for a range of 25 to 150 ohms; charging time: less that 5 seconds for maximum energy; monitors for ECG, SpO <sub>2</sub> , NIBP and etCO <sub>2</sub> ; with adult and pediatric paddles; with battery capable of usage for at least 5 hours of monitoring; complete accessories, spares and consumables	535,000.00	535,000.00
22	1	unit	Biosafety Cabinet, Class II, 30% air exhaust & 70% inner recycle, user-friendly control software interface, simple operation, LCD screen, preset filter failure and breakdown alaram technology, negative pressure to form an air curtain and box type double isolation between work area and external environment to best protect room side environment, Type II biosafety cabinet, tempered glass, shatter-proof front window	400,000.00	400,000.00



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23	1	unit	<b>Bacteriological Incubator</b> , used for storage of bacteria plate and bacteria culture growth at 37°C; range: ambient +5°C to 60°C; accuracy: 0.5°C; uniformity: 1% of set value; heat up time: 30min to to 60°C; double walled cabinet of mild steel, aluminum or stainless steel inner filled with thermal insulation	100,000.00	100,000.00
24	2	unit	<b>Anesthesia Machine with Ventilator</b> , electronic flow display and conventional flowmeter options are available, standard/cascade flow tubes, virtual flow display (VFD)-numeric and graphical representations of flow tubes complete with virtual spinning bobbins and a traditional total flow tube. audible and visual alarms and has battery backup, AV-S ventilator-easy to use anesthesia ventilator designed for adult and pediatric patient profiles, wide choice of territory-specific electric power outlets, forward facing socket, fully compliant to ISO 80601-2-13 standard and to restrictions of hazardous substances directive.	1,800,000.00	3,600,000.00
25	1	unit	<b>Biological Refrigerator (2-8°C)</b> , capacity: 130L; tem. Range: 2°C - 8°C; temp. accuracy: 0.1°C; control system: microprocessor control, LED screen display; alarm: audible and visual alarm for high/low temperature, power failure; refrigeration type: forced air refrigeration system; refrigerant: R600a, CFC free; condenser and evaporator: bundy tube codenser; defrost: auto defrost; door: glass door	40,000.00	40,000.00
26	2	unit	<b>Fully Automated Hematology Analyzer</b> , 28 parameters, 2 histograms, 2 scattergrams, Auto-loader, 60 samples/hour, Laser scatter technology, Integral titanium incubation system, 3-D topographic technology, Constant linear sheath flow, Random direction tube barcode scanning technology (optional), Regular parameters: WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, PDW, MPV, PCT, P-LCR, NEU#, NEU%, LYM#, LYM%, MON#, EOS#, EOS%, BAS#, BAS%, Research parameters: ALY#, ALY%, IG#, IG% 2 histograms, 2 scattergrams, Test speed: Autoloader Mode: 60 samples/hour Close tube mode: 60 samples/hour, Test mode: CBC+5DIFF, CBC, Sample mode: Autoloader: 50 tubes, auto mixing, random direction tube barcode scanning technology, Close tube: STAT priority, support both whole blood and capillary blood samples	1,500,000.00	3,000,000.00
x x x					
<p><b>Terms of reference:</b></p> <p>1. Bidder mus provide certificate of exclusive or authorized distributorship for the equipment being offered and that they are the authorized distributyor for this bid.</p>					

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			<p>2. Bidder must have track record of having supplied and successfully installed various medical equipment in the following: a) DOH-retained hospital, b) two (2) LGU hospitals and two (2) private institutions within the past five (5) years. Bidder must provide a list with contact numbers of the institutions.</p> <p>3. Certificate of guarantee that prospective bidder shall conduct in-house applications training by a qualified trainer of staff with issuance of applications training certification for all equipment delivered.</p> <p>4. The winning bidder shall secure the necessary insurance for the equipment with the GSIS.</p> <p>Time of delivery: 20-30 days upon receipt of NTP Place of Delivery: 10 Devolved Hospitals Mode of procurement: Public Bidding</p>		
<b>TOTAL</b>					<b>PHP 70,610,000.00</b>

Purpose:  
for the use of Province-owned Hospitals

BY AUTHORITY OF THE GOVERNOR

Requested by:	Cash Availability	Approved by:
Signature:	EUSTAQUIO A. SOCORIN Provincial Treasurer	ATY. KATHRYN B. PIGNATO PROVINCIAL ADMINISTRATOR
Printed Name: CESAR TOMAS M. LOPEZ, MD Designation: OIC - Provincial Health Office		ARTHUR C. YAP Governor

**PROVINCIAL BUDGET OFFICE**  
PROVINCE OF BOHOL

DATE: 5/31/21

AMOUNT: 67,610,000.00

DATE: 5/31/21

PETER ROSS M. R. TUALICPA  
BMO

PR # 2021-277

RECEIVED BY: DATE: 8/24/2021

PROVINCIAL PROCUREMENT MANAGEMENT UNIT

NC # \_\_\_\_\_ DO # \_\_\_\_\_ SC # \_\_\_\_\_ RSC # \_\_\_\_\_

AMOUNT: ₱ 70,610,000.00

OK AS TO APP: \_\_\_\_\_