



PURCHASE REQUEST
Province of Bohol



Department: Provincial Health Office			PR. No: 2020-121	Date: July 20, 2020	
Section:			SAI No.	Date:	
			OBR No.	Date:	
Item No.	Quantity	Unit of Issue	SAI No.	Estimated Unit Cost	Estimated Cost
1	2	unit	Electrolyte Analyzer <ul style="list-style-type: none">• ISE (Ion Selectivity Electrode)• Low Reagent consumption• Maintenance free electrodes• Automatic reagent replacement• Simple and reliable design• Test: K+, Na+, Cl-, iCa2+, nCa2+, TCa, pH Throughput: 60 tests per hour Connectivity: RS232 Display: 320X240 touch screen Operating Environment: Temperature: 20%-80%, Humidity: 35%~85% Power requirement: 110-240AV+10%,50/60 Hz 80W Dimension: 600mm (H) x680mm (W) x550mm (D) Weight: 8kg	430,000.00	860,000.00
2	1	unit	X-Ray, digital, 500MA standard output power : 50kW 1.2 mA range : 10-630mA 1.3 Tube voltage range : 40-150kV 1.4 mAs range : 0.1-630mAs 1.5 Load time range : 0.001s~6.3s 1.6 Input power voltage: 380/400VAC, ±10%, 50/60hz, 3phase; 1.7 High voltage transformer structure : The power frequency 1.8 High voltage frequency: 25kHz ± 5% 2.X-ray tube 2.1 Focus range : 0.6/1.2mm 2.2 Anode type: rotating anode, rotation speed: 3200 rpm 2.3 The maximum voltage : 150kV 2.4 Anode angle 12° 2.5 Anode heat capacity: 150kHu 2.6 Tube heating capacity: 1250kHu 2.7 Anode input power: big focus 50kW, small focus 22kW 2.8 The inherent filtration : 1.3mm Al/75kV 3. Collimator 3.1 The inherent filtration : 1.2 mm Al /75 kV ; 3.2 Collimator is equipped with LED lights (Bright 30S are automatically extinguished) 3.3 Collimator is built into measuring ruler; 4.1 Tube Tilting Angle : ±180° 4.2 Tube Vertical Rotation Angle:-10°~90° 4.3 Post their rotary Angle: - 180°~+ 180°,each 90° automatic positioning; 4.4 Vertical stroke of column along bed: more than1700mm 4.5 The head of the machine is up and down the column: it is greater than 1200mm 4.6 The Collimator of the limiting device : 220 ~ 2000mm 4.7 Height of camera bed: 660mm + 5% 4.8 The vertical movement of the bed surface is greater than 900mm 4.9 The transverse movement of the bed surface is greater than 250mm 4.10 The chest frame height is 2100mm plus or minus 5% 4.11 The motion stroke of the chest frame detector is greater than 1450mm 4.12 The longitudinal movement of the box is greater than 520mm 4.13 Rotation Angle of the beam limiting device: plus or minus 360°; WIFI connection , Amorphous silicon,whole panel technology 5.2 Detector valid exposure size : 430x430mm 5.3 Pixel size : 139 μm 5.4 The effective camera	6,000,000.00	6,000,000.00



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			resolution:3.6lp/mm 5.7 Pixel gray level : :14bit 5.8 Data output: wired/wireless; CPU:3.2GHz 6.2 Memory capacity : 4GB 6.3 Hard drive capacity : 500 GB 6.4 Resolution: 1280 x 1024 6.5 Display size : The 21inch color LCD capacitive touch screen, multi-touch 6.6 64 bit Windows operation system; Patient registration: acquisition, find the patient data, to prepare for the photography 7.2 Radio graphic examination : setting system parameters, exposure photography and get the image 7.3 Images display, image analysis, processing and output 7.4 Data management: managing patient data, leading in, leading out , batch file, etc in accordance with DICOM3.0 7.5 Configure calibration: the system components such as flat-panel detector, such as tube for automatic configuration and calibration 7.6 System diagnosis: monitoring system status, diagnosis of the system fault; Frame size 8.1.1 Width : 1070 mm 8.1.2 Length : : 2200 mm 8.1.3 Height : 2140 mm 8.2 Lathe bed size 8.2.1 Width : 710 mm 8.2.2 Length : : 1250 mm 8.2.3 Height : 500 mm 8.3 Size of the bed 8.3.1 Width : 820 mm 8.3.2 Length : : 2120 mm 8.4 Total weight (no detector) : 700kg 8.5 Bed bearing: 200kg 8.6 Support automatic exposure dose control function; The machine warranty 1 year 9.2 1 set of complete operation and maintenance manual 9.3 Provide site application and service training 9.4 Free service hot line		-
3	3	unit	ECG Machine, 12 Leads with analyzer - 12 lead resting ECG with standard ECG measurements Backlit VGA LCD screen - Full Alphanumeric keyboard - High resolution thermal print head -Automatic and Manual Operation -Storage for up to 50 ECGs - 1 year warranty	80,000.00	240,000.00
4	1	unit	Dental Chair with Accessories Fully adjustable: : Multifunction Foot control *adjustable tilting backrest *adjustable seat cushion height Patient chair <ul style="list-style-type: none">• 24V DC electric motor• High quality upholstery• Ergonomically designed head and armrests	286,000.00	286,000.00



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5	1	unit	Dental Light: <ul style="list-style-type: none">• LED lighting with toggle switch DENTAL TRAY: <ul style="list-style-type: none">• 470X300 MM SPACE FOR DENTAL UNIT• 3 CONTROL VALVES FOR AIR AND WATER• 3 HIGH SPEED HANDPIECE AND CONNECTOR• 3 WAY SYRINGE• PERIPHERAL Xray viewer• 12 FUNCTION CONTROL PANEL• SALIVA EJECTOR WATER UNIT <ul style="list-style-type: none">• Glass cuspidor bowl with 1 ceramic strainer• Automatic flushing system• Automatic cup filler with heater• High Vacuum saliva ejector• 95x150mm tray for small instruments• 3-way syringe• Water tank for distilled water for handpieces• Water hose and hose tap connector for direct water line CONTROL BOX <ul style="list-style-type: none">• MAIN CONTROL FOR AIR AND WATER• Drainage for waste/saliva Defibrillator with Monitor	500,000.00	-
			Display: <ul style="list-style-type: none">-Screen type: High resolution display-Screen Type: 7 inches (17.7cm) diagonally-Sweep Speed: 25mm/sec-Information: Heart Rate, Lead/Pads, Alarm On/Off, SpO2, AED Functions and Prompts, Alarm Selection and Limits, Delivered Energy Defibrillator <ul style="list-style-type: none">-Waveform: Biphasic-Electrode Impedance Measurement Range: 0-0250 ohms ECG Monitoring-Patient connection: 3-lead ECG Cable; 5-lead ECG cable, paddles-Lead selection: Displayed on monitor, paddles, I, II, III, AVR, AVF, V-ECG size: 0.25, 0.5, 1, 1.5, 2, 4 cm/m V display on monitor-Heart Rate: 20-300 BPM-Battery Type: Rechargeable; Ni-MH battery, 12V SpO2 Module-Measurement Range: 30-100%, ±2% between 80%-90%, others ± 5%-Alarm Time Accuracy: less than 12 sec Recorder: <ul style="list-style-type: none">-Paper: 50mm thermal-Speed: 12.5mm/sec, 25mm/sec, 50mm/sec, User selectable 6 seconds delay-AED Mode		500,000.00



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6	1	unit	<p>-AED Function: Auto analyze and charge x3 with programmable auto energy level selection, screen prompts and voice prompts. Showable Rhythms: Ventricular fibrillation, Ventricular, tachycardia; QRS complex wave duration</p> <p>Charge Control: Control on device front panel, press key on paddle</p> <p>Manual Mode</p> <p>Energy Selection: Selectable at 2, 5, 7, 10, 20, 30, 50, 70, 100, 150, 200, 300, 360 joules, Synchronized Mode: Synchronizes defibrillator pulse to patient's R-wave, "SYNC" messages displayed on monitor</p> <p>Fully Automated Hematology Analyzer, 5 Part</p> <p><u>Advantages & Features</u></p> <ul style="list-style-type: none">• 5-part diff, 23 parameters, 3 scatter grams, 3 histograms• 40 samples /hour• sample volume: 15µl• two counting modes: whole blood & prediluted• Supports whole blood mode for capillary sample• 20,000 storage capacity• Intuitive operation system via 10.4" touch screen• Laser scatter + Chemdye +Flow cytometry• Independent channel & optical method for Basophil measurement <p><u>Parameters</u></p> <p>WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW</p> <p>3 histograms for WBC, RBC and PLT</p> <p>3 scattergrams: 4-differential scattergram and 2 scattergrams for eosinophil</p> <p><u>Sample Volume</u></p> <p>Prediluted 20µL; Whole Blood 15µL; Capillary WB blood 15µL</p> <p><u>Throughput</u></p> <p>40 samples per hour</p> <p><u>Carryover</u></p> <p>WBC, RBC, HGB < 0.5%, PLT<1.0%</p> <p><u>Connectivity</u></p> <p>USB, LAN, COM</p> <p>Supports Uni- or bi-directional LIS LAN Port supports HL7 protocol</p> <p><u>Printout</u></p> <p>External Laser printer / Inkjet printer, various printout formats and User-defined formats</p>	3,000,000.00	3,000,000.00
7	1	unit	<p>Fully Automated Clinical Chemistry Analyzer</p> <p><u>Advantages & Features:</u></p> <ul style="list-style-type: none">• Grating optical system with 12 wavelengths	2,145,000.00	2,145,000.00



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			<ul style="list-style-type: none">High efficiency standalone mixing barThroughput: 320 tests per hour for chemistry8-step auto wash systemLiquid level detection and tracking150µl minimum reaction volumeHighly compatible reagent system: reagents, QC & Calibrators ready for use <u>Sample Tests that can be performed:</u> ALT, AST, ALP, ACP, α-HBDH, LDH, CK, CK-MB, α-AMY, MSO, ChE, ADA, γ-GT MAO, Lip, Lap, NAG, TG, TC, HDL Chole, LDL Chole, Glu, Lactate, UREA, Cr, UA, TP, Alb, TBIL, DBIL, TBA, FMN, APO-AI, APOB, Lp(a), ASO, C3, C4, CRP, IgA, IgM, IgG, Microalbumin, RF, β 2MG, Myoglobin, TF, FIB, HbA1c, HbAO, U-Alb, BTR <u>Principles</u> Absorbance photometry, turbidimetry, Ion selective electrode technology <u>Methodology</u> End-point, fixed time, kinetic, optional ISE, single/dual reagent chemistries, monochromatic/ biochromatic, linear non-linear multipoint calibration <u>Throughput</u> Up to 320 tests/h, or 480 tests/h with ISE <u>Connectivity</u> RS232 <u>Operating System</u> Windows® XP Professional/Home SP2 or above Windows® 7 <u>Operating Environment</u> Temperature: 15°C~30°C Humidity: 35%~85% <u>Power requirement</u> AC 200~240V, 50/60Hz, ≤1500VA or AC 100~130V, 50/60Hz, ≤1500VA <u>Dimension</u> 860mm (W) x700mm (D) x625mm (H) <u>Weight</u> 130kg		-



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10	1	unit	Autoclave, Heavy Duty, 300L Physical :Capacity : 300 lits 24"x40" volume power 220V. Control unit pressure switch vacuum pump diaphragm signle head; Features:Auto water fillin < auo exhaust< Liquid sterilization mode, Pre vacuum function< DRY function,vacuum release, dry time Post vacuum 30mins redry time 10 mins.; SAFETY DEVICES: Dual safety door lock* non operational mode of device when door is not properly closed. Overheat cut off switch. Water filling detection time*door unlock reminder*low water sensor with buzzer alarm*Breaer switch (non fuse type) *Emergency Exhaust switch *over heat/ pressure Indicator	1,215,000.00	1,215,000.00
11	3	unit	Doppler Apparatus Advanced real time auto correlationfetal heart rate processing Active noise reduction for crystal clear heart sounds; Improved sensitivity for reliable detection in early gestation; Improved performance on difficult mums; LCD display of fetal heart rate including pulse indicator; Audio output for headphones; Built in loudspeaker; 3MHZ waterproof transducer suitable for use in a water birthing environment (FD3); High sensitivity for optimum performance in antenatal screening; Advanced power management with auto switch off to conserve battery life; Long robust coiled cable enables optimum transducer position in all circumstances; Integral probe protection and storage; Easy clean probe for improved infection control	50,000.00	150,000.00
12	5	unit	Emergency Cart, delivered fully assembles no tools required Top constructed of solid high density polytheylene; 100* total replacement lifetime guarantee 31x 42 x24 inches; Lightweight aluminum composite contryction; Multiple accessories; 5 inch enclosed high compressive nylon rubber casters; Adjustable and customizable built in track system; sharps dispenser with mount,waste container with mount, Crash cart cardiac board; Telescoping IV pole with mount	100,000.00	500,000.00
13	50	unit	Bedside Table Advanced electrostatic plastic spray of surface , anti aging and anti-rust, Cabinet frame is welded by profile steel stable and reliable, ABD ENGINEERING PLASTIC, Length : 47.5 cm width: 47.5 cm heoght 75 cm	4,800.00	240,000.00
14	2	unit	Portable X-Ray Machine	3,000,000.00	6,000,000.00



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15	6	unit	<p>standard output power : 5.6kW 1.2 mA range : 10-100mA 1.3 Tube voltage range : 40-125kV 1.4 mAs range : 0.1-200mAs 1.5 Load time range : 0.002s~4s 1.6 High voltage transformer structure : The power frequency 1.7 Focus range : 0.6/1.8mm 1.8 Anode types: fixed anode 1.9 The maximum voltage : 125kV 1.10 Anode angle 15° 1.11 The inherent filtration : 0.6mm Al/75kV 1.12 Anode heat capacity : 42kHu 2. Collimator 2.1 The inherent filtration : 1 mm Al /70 kV ; 2.2 Collimator is equipped with LED lights (Bright 30S are automatically extinguished) 2.3 Collimator is built into measuring ruler 3. The tube bracket structure 3.1 SID: 330 ~ 1650mm 3.2 Size after folding:1060*400*400mm 3.3 weight : 32KG 4. Detector (iRay) 4.1 WIFI connection, Amorphous Silicon oxide ,whole panel technology 4.2 The effective camera size of the detector : 350mm×430mm 4.3 Pixel size : 150 μm 4.4 Gathering matrix : 2304×2800pixels 4.5 Spatial resolution : 3.4lp/mm 4.6 Pixel gray level : 14bit 4.7 Detector cooling mode: natural cooling 5. Digital image workstation 5.1 CPU frequency : CORE i3 5.2 Memory capacity : 4GB 5.3 Hard drive capacity : 500 GB 5.4 64 bit Windows operation system 6. Image acquisition software 6.1 Patient registration: acquisition, find the patient data, to prepare for the photography 6.2 Images display, image analysis, processing and output 6.3 Data management: managing patient data, leading in, leading out , batch file, etc in accordance with DICOM3.0,5.4AH 6.4 System diagnosis: monitoring system status, diagnosis of the system fault 7. Battery 7.1 Power supply way : Lithium battery supply 7.2 The rated capacity:32.4V 7.3 Battery capacity: More than 100 exposures, (Exposure conditions: 50kV, 80mA, 20ms) 7.4 Dual power supply, exposure under either wall current or lithium battery 7.5 Maximum charging 4 hours 7.6 The standby time is not less than 7 hours 7.7 Can support handswitch and remote control exposure 8. The machine parameters 8.1 Display size : 8 inch display capacitive touch screen 8.2 Whole machine width : 240 mm 8.3 Whole machine length : 440 mm 8.4 Whole machine height : 236 mm 8.5 Whole weight(no detector) : 18kg 9. Options 9.1 Wireless network data transmission (WIFI) 9.2 Choose a chest rack 9.3 The selection of moving flat bed 10. After sale service 10.1 The machine warranty 1 year 10.2 Provide complete operation manual 1 set 10.3 Free service hot line 11. copyright certificate 11.1 Utility model: a kind of medical product damping rotation axis 11.2 Appearance patent: portable digital X-ray machine 11.3 Software copyright: Browiner technology portable X-ray machine embedded system software</p> <p>Wheeled Stretcher</p> <p>Product size: 190cmx54x88cm, Size of castors: 160cm, N.W. :35kg, Load bearing<<< 129kg</p>	60,000.00	360,000.00



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16	1	unit	Infant Incubator Power supply: AC220V-230V/50Hz or AC110-120V/50-60Hz; Max Power Output: 850VA (SK-N004) 1000VA (SK-N005); Mode of Control: Air mode and baby mode controlled by micro-computer; Air temperature control range: 25°C - 37°C (override mode 37-39°C); Baby temperature control range; 34 - 37°C (override mode 37-38°C); Temperature variability: ≤0.5°C; Temperature uniformity: ≤0.8°C; Noise inside hood: ≤45dB(A) (Environment noise ≤35dB(A)); Over-temperature alarm: Yes; Sensor alarm: Yes; Power failure alarm: Yes; Sensor box position alarm: Yes; System alarm: Yes; Accuracy of humidity: ±10%RH; Humidity display range: 0%RH-99%RH; Humidity control range: 0%RH-99%RH	643,500.00	643,500.00
17	1	unit	LED O.R. Light Light Intensity at 1m distance: 160,000lx Dimmability: 32,000-160,000lx Colour temperature: 4,700K General Colour renderig index: R 98 Colour rendering index R (red): 99 Light field diameter: D10=215mm, D50-120mm Adjustable light field diameter: 215-290mm Depth of illumination: 60% 450mm, 20% 750mm Temp. of light head surface:<27.5°C Total irradiance at 100,000lx: 325W/m ² Power input of light head (100%light): 56watt Endoscopy mode: Green light Service life of lamp: >40,000h Degree of protection of light head: IP 54 Light: cool light with no infrared components; optimum illumination in area and depth Shadow-free with the ideal ratio of luminate to light-field diameter, Natural color rending index with white light (Ra of 98 at all light legels, R9 of 99 in the red region) Can be regulated from 32,000 lux to 160,000 lux Hygiene: Flow-optimised luninaries housing for laminar airflow ceiling Degree of protection IP 54 as per IEC 144 Suitable for Spray and wipe disinfection See Better: Endoscopy mode Improves the contrast for the surgeon using imaging procedures Reduced reflection on monitors during endoscopic procedures Provides adequate background lighting for orientation for the complete surgical team Maintenance & Energy: Technology for 100% lighting power even after many years of use CONTROL ELEMENTS:	500,000.00	500,000.00



PROVINCIAL BUDGET OFFICE
PROVINCE OF BONAIRE
CONTROL NO. 1066 REC'D BY [Signature] DATE: 7/21/20
EARMARK NO. 2197 VALID UNTIL 12/31/20
EXPENSE CODE 44431 - 1070510 AMOUNT 24,264.50
FUND SOURCE SPOT 20 1070510 CONTROLLER [Signature] DATE 7/21/20
PETER ROSS M. RET. TOTAL CPA
BMO