

## PURCHASE REQUEST

Entity Name: DOLE

Fund Cluster:

| Office/Section:<br>OSEC |               | PR No: _____  | Date: 18 November 2021 |               |               |
|-------------------------|---------------|---|------------------------|---------------|---------------|
|                         |               | Responsibility Center Code:   |                        |               |               |
| Stock / Property No.    | Unit          | Item Description  | Quantity               | Unit Cost     | Total Cost    |
| 1                       | 1 Lot<br>unit | <p>Procurement of the following hospital equipment for the OFW Hospital and Diagnostic Center in San Fernando, Pampanga:</p> <p><b>CT Scan Machine (128 Slice)</b><br/> <b>GANTRY/Detector</b><br/>           Geometry: Continuously rotating, slip ring 360<br/>           Detector Type: Solid state 64 channel physical row of detector<br/>           Physical Detectors Rows: At least 64 Rows<br/>           Maximum number of simultaneous slice per rotation: 128 Slices<br/>           Rotation time 360 degrees: 0.35 seconds for cardiac as well as whole body scanning<br/>           No of channels: 870 channels<br/>           Scan times: 0.35 , 0.4 , 0.5 , 0.75 , 1.0 , and 2.0 seconds<br/>           Smallest Slice thickness: Approx. 0.625mm<br/>           Detector width: At least 40mm<br/>           Gantry tilt: From -30 degrees to +30 degrees<br/>           Gantry aperture: 800mm<br/>           Scan localizer: Laser<br/>           Must have control of gantry movement from console<br/>           Detector Type: Solid State Detector<br/>           Maximum Table pitch: 1.578<br/>           Fastest whole body scanning: 9.4 sec @ 1,700 mm, 0.35 sec/scan, pitch 1.578<br/>           Gantry Depth: At least 880mm<br/>           Gantry display must be able to show Patient name, ECG wave, gantry position, Scan Guidance,<br/>           With gantry Sub display for patient<br/>           With Multi language display for patient<br/>           With Gantry panel on both sides of the gantry<br/>           With ECG Monitor provided<br/>           Gantry cooling method: air cooling<br/>           Number of elements: 56,000 elements<br/> <b>X-RAY TUBE</b><br/>           Heat storage: 7.5MHU<br/>           Heat dissipation rate: 1300KHU/min<br/> <br/>           Cooling Type: Hybrid cooling (glycol water-cooling or oil cooling on target)<br/>           Focal spot: 0.7 x 0.8mm / 1.2 x 1.4mm<br/>           X-ray tube type: Anode<br/> <b>X-RAY GENERATOR</b><br/>           KW output: 72kW<br/>           KVp range: 80,100,120,140KV<br/>           mA range: 10~600mA (5mA step)<br/>           With mA dose reduction function<br/>           With dose reduction depending on patient size correction<br/>           With dose reduction on body axis direction<br/>           With dose reduction on rotation phase correction<br/> <b>SCANNING ABILITY</b><br/>           Max Scan Time: 100 seconds<br/>           Max scan volume: 170cm<br/>           Max Scan Length: 175cm<br/>           Reconstruction time: At least 60 images/ sec<br/>           No of Slices per rotation: 128<br/>           Data sampling: 2880 view/sec<br/>           Reconstruction thickness: 0.625, 1.0, 1.25, 2.5, 3.75, 5, 7.5, 10mm<br/>           Reconstruction method: Cone beam Recon<br/>           Must have Windmill artifact correction<br/>           Max. FOV: 500 mm<br/>           Low contrast resolution: 2.5mm @ 0.25%<br/>           High contrast resolution (0% MTF): 17.18lp/cm<br/> <b>Cardiac Scanning</b><br/>           Fastest rotation speed: 0.35 sec/rotation<br/>           Must have dose reduction technique<br/>           With ECG Monitor provided<br/>           With cardiograph display on gantry<br/>           With cardiograph display on console<br/>           With ECG editor<br/>           With stent luminal evaluation algorithm on workstation</p> | 1                      | 62,000,000.00 | 62,000,000.00 |

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|                         |      | Temporal Resolution: 50 msec<br><b>PATIENT TABLE MOVEMENT</b><br>Vertical: 49cm-97cm<br>Longitudinal: 211cm<br>Spiral Scanable range: 170 cm<br>Max load capacity: 220kg<br><b>IMAGE PROCESSING</b><br>Reconstruction matrixes: 512 x 512<br>Clock Speed: 3 Ghz<br>Reconstruction time/slice, sec: 60 images/Sec<br><b>DISPLAY</b><br>Monitor size: Wide 24-ich LCD<br>Matrices: 1920 x 1200 pixels<br>Image Enlargement: Variable<br>Maximum number of slice display at once: 20 images<br><b>IMAGE STORAGE</b><br>Hard Disk: At least 2 units 1TB disk<br>No of online images (512x512): 600,000 images<br>Archival Storage: DVD-RAM, DVD-R/RW, CD-R/RW<br><b>APPLICATIONS</b><br>Must have CT Angiography<br>Must have Bolus Chasing Software<br>Must have Advance Vascular Package<br>Must have Pulmonary embolism protocol<br>Must have Automatic Bone removal software<br>Must have 3D Application with volume analysis<br>Must have Virtual endoscopy (navigation) package.<br>CT colonography evaluation and reporting, CAD FOR COLON<br>Must have Dose Reduction and Measurement Module<br>Must have Pediatric Protocol<br>Must have Artifact reduction and Cone Beam Correction<br>With Lung Nodules Software, evaluation and reporting, CAD<br>Must have Cardiac C1 Module with the following capabilities:<br>-Prospective ECG triggering technique<br>-Retrospective ECG gating technique<br>-ECG Editor for showing & picking phases<br>-Dose modulation with ECG pulsing<br>-Minimum gantry rotation<br>-Specify the temporal resolution achieved<br>-Calcium scoring<br>-Advance cardiac analysis, coronary artery analysis, stenosis, stent<br>-Ventricular Volume and ejection fraction<br>-ECG Electrodes<br>-ECG monitor<br>With DICOM 3.0 Full compatibility<br>With DICOM INTERFACE and capable of having connection with PACS and RIS<br>With DICOM send, Store, Recive, Query, Retrieve, Print, Work List, Performance Procedure Step, and MPPS capabilities<br><b>RADIOLOGIST WORKSTATION</b><br>With CPU of at least 4 GB RAM , 1 TB Hard disk storage, and 18 inch LCD Monitor<br>With Advance Vascular Package<br>With CD/DVD Burner with Dicom viewer<br>With Automatic Bone removal software<br>With Virtual endoscopy (navigation) package, >8 frame, with ceiling LCD<br><b>CLINICAL SOFTWARE</b><br>With CT Colonoscopy<br>With CT perfusion<br>With Lung nodule assessment<br>With Calcium Score<br>With CT/ CTA Subtraction<br>With Coronary Analysis<br><b>OTHERS</b><br>Must be supplied with contrast injector, dual barrel<br>Must be supplied with a UPS for CT Scan System<br>Must be supplied with a UPS for the workstation<br>Must be supplied with medical grade monitor, at least 2.0 Megapixels |                        |           |            |

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| Stock / Property No.    | Unit | Item Description  | Quantity               | Unit Cost     | Total Cost    |
| 2                       | unit | <p>Must be supplied with radiation protection: 3 units Lead gown, 1 pair Lead rubber gloves, 1 unit thyroid shield, and 1 set gonadal shield<br/>Must be supplied with 2 units Dehumidifier machine</p> <p><b>Digital X-ray Machine 600 MA (HF) with tilting table FLAT PANEL DETECTOR</b><br/>With Amorphous Silicon (a-Si) Flat Panel Detector Type<br/>With Cesium Iodide (CsI) Scintillator Screen Type<br/>With Effective View Field of at least 43 x 43 cm (17 x 17 in.)<br/>Static Pixel Matrix of at least 3072 x 3072<br/>Dynamic Pixel Matrix of at least 1536 x 1536<br/>Spot-film Pixel Matrix of at least 3072 x 3072<br/>Spot-film Preparation Time: ≤0.8s<br/>Output Grayscale: 16bit<br/>Preview Image Time: Not more than 3 seconds<br/>Maximum Spatial Resolution: 3.5 lp/mm<br/>Detector Movement Range: At least 950mm</p> <p><b>X-RAY TUBE</b><br/>Tube Focus: 0.6mm/1.2mm<br/>Max. Output Voltage: 150kV<br/>Heat Capacity: 400 kWh<br/>Output Power: 40kW</p> <p><b>HIGH FREQUENCY GENERATOR</b><br/>Power Requirement: 380V with 3 Phases Wires<br/>Maximum Output Power: 50kW<br/>Output Voltage for Radiography: 40kV-150kV<br/>Output Voltage for Fluoroscopy: 40kV-120kV<br/>Output Current for Radiography: 10mA-650mA<br/>Output Current for Fluoroscopy: 0.5mA-10mA<br/>Range of mAs: 0.4mAs-630mAs<br/>Input Power Frequency: 50Hz/60Hz<br/>With Auto Brightness Selection (ABS) function</p> <p><b>REMOTE CONTROL TABLE</b><br/>Table Size: At least 2100 mm x 850 mm x 700 mm<br/>Table Lateral Movement: 250 mm<br/>Source-to-Image Distance (SID): 1000-1800 mm<br/>Table Rotate Range: -15 degrees to +90 degrees<br/>Tube Column Rotate Range: -35 degrees to +35 degrees<br/>High Voltage Cables of X-ray Machine Length: Approx. 8m<br/>Rotation Angle of Foot Pedal: 360 degrees<br/>With one-click in Place Function to Chest position or Table position<br/>With exposure fluoroscopy switch where exposure and fluoroscopy can be prohibited to ensure safety of doctors and prevent accidental exposure</p> <p><b>GRID</b><br/>Grid Ratio: 10:01<br/>Grid Focus: 120 cm<br/>Can support manual removal</p> <p><b>COLLIMATOR</b><br/>Power: 150W<br/>Auto collimation<br/>Inherent filtering from 1.5-2.0 mmAl @ 120KV</p> <p><b>Workstation</b><br/>Must have CPU processor of Intel i5 or better<br/>Must have at least 4 GB RAM<br/>Must have at least 500 GB hard disk storage<br/>With display of 1280x1024 pixels or higher<br/>Must have CD/DVD recording</p> <p><b>SOFTWARE</b><br/>Patient Management can do manual registration or automatic query from worklist<br/>Image Acquisition: Automatic Window adjustment, automatic sending, static image acquisition, dynamic image acquisition, video save, playback</p> <p>Image Processing: Image correction, image clipping, Automatic image segmentation, EAE Image Enhancement Processing, IEQ Image processing<br/>Image Viewer: Window/Level adjustment, Image Flip, Image Rotation, Image Magnification, Restore</p> | 1                      | 10,500,000.00 | 10,500,000.00 |