



TERMS OF REFERENCE

PROJECT : PROCUREMENT OF HOSPITAL EQUIPMENT FOR THE OFW HOSPITAL AND DIAGNOSTIC CENTER IN SAN FERNANDO, PAMPANGA

OWNER : DEPARTMENT OF LABOR AND EMPLOYMENT (DOLE)

LOCATION : INTRAMUROS, MANILA

APPROVED BUDGET FOR THE CONTRACT: P200,000,000.00

I. PURPOSE:

The Department of Labor and Employment desires to engage the services of a supplier to provide the hospital equipment for official use of the OFW Hospital and Diagnostic Center in San Fernando, Pampanga.

II. TECHNICAL SPECIFICATIONS

	QUANTITY/ UNIT	TECHNICAL SPECIFICATIONS
1.	1 Unit	<p align="center">Supply, Delivery, Installation and Commissioning of Brand New CT Scan Machine (128 Slice)</p>
		<p><i>GANTRY/Detector</i> Geometry: Continuously rotating, slip ring 360 Detector Type: Solid state 64 channel physical row of detector Physical Detectors Rows: At least 64 Rows Maximum number of simultaneous slice per rotation: 128 Slices Rotation time 360 degrees: 0.35 seconds for cardiac as well as whole body scanning No of channels: 870 channels Scan times: 0.35 , 0.4 , 0.5 , 0.75 , 1.0 , and 2.0 seconds Smallest Slice thickness: Approx. 0.625mm Detector width: At least 40mm Gantry tilt: From -30 degrees to +30 degrees Gantry aperture: 800mm Scan localizer: Laser Must have control of gantry movement from console Detector Type: Solid State Detector Maximum Table pitch: 1.578</p> <p>Fastest whole body scanning: 9.4 sec @ 1,700 mm, 0.35 sec/scan, pitch 1.578 Gantry Depth: At least 880mm Gantry display must be able to show Patient name, ECG wave, gantry position, Scan Guidance, With gantry Sub display for patient With Multi language display for patient</p>

	<p>With Gantry panel on both sides of the gantry With ECG Monitor provided Gantry cooling method: air cooling Number of elements: 56,000 elements X-RAY TUBE Heat storage: 7.5MHU Heat dissipation rate: 1300KHU/min</p> <p>Cooling Type: Hybrid cooling (glycol water-cooling or oil cooling on target) Focal spot: 0.7 x 0.8mm / 1.2 x 1.4mm X-ray tube type: Anode X-RAY GENERATOR KW output: 72kW KVp range: 80,100,120,140KV mA range: 10~600mA (5mA step) With mA dose reduction function With dose reduction depending on patient size correction With dose reduction on body axis direction With dose reduction on rotation phase correction SCANNING ABILITY Max Scan Time: 100 seconds Max scan volume: 170cm Max Scan Length: 175cm Reconstruction time: At least 60 images/ sec No of Slices per rotation: 128 Data sampling: 2880 view/sec Reconstruction thickness: 0.625, 1.0, 1.25, 2.5, 3.75, 5, 7.5, 10mm Reconstruction method: Cone beam Recon Must have Windmill artifact correction Max. FOV: 500 mm Low contrast resolution: 2.5mm @ 0.25% High contrast resolution (0% MTF): 17.18lp/cm Cardiac Scanning Fastest rotation speed: 0.35 sec/rotation Must have dose reduction technique With ECG Monitor provided With cardiograph display on gantry With cardiograph display on console With ECG editor With stent luminal evaluation algorithm on workstation Temporal Resolution: 50 msec PATIENT TABLE MOVEMENT Vertical: 49cm-97cm Longitudinal: 211cm Spiral Scanable range: 170 cm Max load capacity: 220kg IMAGE PROCESSING Reconstruction matrixes: 512 x 512 Clock Speed: 3 Ghz Reconstruction time/slice, sec: 60 images/Sec DISPLAY Monitor size: Wide 24-ich LCD Matrices: 1920 x 1200 pixels Image Enlargement: Variable Maximum number of slice display at once: 20 images IMAGE STORAGE Hard Disk: At least 2 units 1TB disk</p>
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