



Republic of the Philippines  
Department of Health  
Regional Office No. XI  
**SOUTHERN PHILIPPINES MEDICAL CENTER**  
J.P. Laurel Avenue, Davao City



## TECHNICAL SPECIFICATION **DIGITAL RADIOGRAPHY WITH X-RAY IMAGING SYSTEMS**

### *Project*

#### ***Justification:***

The Department of Radiologic and Imaging Sciences (DORIS) is currently requesting for one (1) unit of Digital Mobile X-ray Machine, one (1) unit Ceiling-Mounted Stationary Digital X-ray Machine and Two (2) units Multiloader Computed Radiography Systems to further the digitalization of the General Radiography Section and streamline operations.

#### ***Instructions:***

Bidders must state in the column under **Statement of Compliance** the word either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of **ITB Clause 3.1(a)(ii)** and/or **GCC Clause 2.1(a)(ii)**.

Bidder may submit offer which provides for superior specifications and /or better terms and conditions to the government at no extra cost. However, these shall not be given any bonus, credit or premium in the bid evaluation

**Prepared by Technical Working Group**

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<p><b>General Description</b></p> <p><b>I. Digital Mobile X-ray Machine</b></p>	<p>The supplier shall supply, install and commission one (1) Digital Mobile X-Ray Machine and one ( 1) Digital Stationary Ceiling Mounted X-ray Machine</p> <p>The Digital Mobile X-ray Machine must be Picture Archiving Communication System- (PACS) ready and able to retrieve and send imaging studies to the SPMC PACS through wireless and wired LAN. It can also be integrated with the RIS of the hospital.</p> <p>The machine can temporarily store images in Dicom format ( the supplier must provide the maximum number of images that can be stored)</p> <p>The machine should have a telescopic column that allows increased visibility that gives unobstructed view and safety when driving the system.</p> <p>The tube arm can reach up to 1200mm to accommodate larger beds and crowded rooms.</p>		

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	<p>The machine should be motor driven operation</p> <p>The system should have bins for the detectors.</p> <p>An integrated system and screen that automatically logs the operator into the software and displays the patient work list.</p> <p>The machine shall be provided with technique selector and digital display for KV, mA and or mAs, exposure time and microprocessor controlled anatomical programming function keys</p> <p>The machine have integrated 15 inch or higher touch panel color LCD monitor for image display</p> <p>The system must be capable of integrating with the existing PACS/RIS at no extra cost.</p> <p>The machine must have integrated or provided</p>		

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	<p>with ID barcode reader</p> <p>The supplier must provide integrated battery charger/s for detector batteries</p> <p>The X-Ray Generator of the machine shall have the following capability:</p> <ul style="list-style-type: none"><li>• High frequency inverter type generator</li><li>• Maximum KV setting up to 125kVp or higher</li><li>• Maximum tube current not less than 400 mA</li><li>• mAs setting up to 320 mAs or higher</li><li>• Power supply : Single phase at 220 – 240 Volts @ 60 HZ</li></ul> <p>The X-ray Tube must be of the following specification</p> <ul style="list-style-type: none"><li>• Should be rotating anode, dual focus</li><li>• Focal Spot Size: small focus range within 0.3-</li></ul>		

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	<p>0.7 mm / large focus range within 1.0-1.3 mm</p> <ul style="list-style-type: none"><li>• Anode Heat Capacity: 200 kHU or higher</li></ul> <p>Tube Head Movement:</p> <ul style="list-style-type: none"><li>• Maximum SID to Floor must be within 2010-2022 mm</li><li>• Minimum SID to Floor must be within 550-700 mm</li><li>• Tube Arm Reach: within 600-700mm (min) to within 1000-1200 mm (max)</li><li>• Column Rotation Range: <math>\pm 270</math> degrees or wider</li><li>• Tube Rotation: <math>\pm 180</math> degrees or better</li><li>• Tube Tilt: -10 to +90 degrees or wider</li><li>• Collimator Rotation Range: <math>\pm 90</math> degrees or wider</li></ul> <p>The machine shall be provided with its latest technology of wireless flat panel detector that made up of Cesium Iodide as its capture element or scintillator.</p>		

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	<p>The active pixel dimensions of the flat panel detector should not more than 125 um. It should have a minimum spatial resolution of 3.5 line pairs/mm or higher. The quantum detection efficiency (QDE) should be more than 65% at Zero Line Pair</p> <p>The cassette/s or detector/s provided shall be appropriate for examinations involving newborn, pediatrics and large adult patients</p> <p>Provided with detachable battery and charger.</p> <p>Administrative System            Can create/modify user log-on and password and generate reports of user and patient logs            Can create/modify output printer configurations            Can manage image output queue            Can re-send image output            Can manage local database [view/delete patient</p>		

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<b>II. Digital Stationary X-ray Machine</b>	<p>image files]</p> <p>Can protect selected patient/image files from reclamation</p> <p>Can create/modify technologist comments</p> <p>The Imaging Processing Software</p> <p>.</p> <p>Can process image to increase latitude while preserving detail contrast in both over-penetrated and under-penetrated areas.</p> <p>Can automatically process and deliver diagnostic quality images to PACS .</p> <p>Contain independent controls within the user interface for the user for image adjustments</p> <p>Have means to minimize the noise in areas of low-exposure to capture high-quality diagnostic details</p>		

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	<p>The system have means to reduce radiation dose while retaining good image quality</p> <p>Can define area of interest automatically, and allow manual selection of complex anatomical structures</p> <p>Can allow DICOM images to be sent from the CR to PACS or to a workstation deployed on the network</p> <p>Can facilitate automatic transfer of patient and procedure data to hospital HIS/RIS system. ) It must be DMWL (DICOM modality worklist) compliant to access patient and study data from HIS or RIS.</p> <p>It must have post processing features viz. geometric corrections, window level algorithms, annotation like markers, predefined text, drawing lines and geometrical shapes, multi-scale image processing, measuring distance and angles, shuttering, histograms, zoom, grey scale reversal, edge enhancement, noise reduction, indication of gray</p>		

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	<p>scale saturation level, latitude reduction.</p> <p>The supplier shall supply, install and commission one (1) Digital Radiography with stationary ceiling mount X-ray System</p> <p>X-ray Machine digital radiography system must be Picture Archiving Communication System- (PACS) ready and able to retrieve and send imaging studies to the SPMC PACS through wireless and wired LAN. It can also be integrated with the RIS of the hospital.</p> <p>The Radiographic X-ray Machine shall be consists of the following components:</p> <p>1. <i>Ceiling Mounted/Suspended X-ray Tube system</i></p> <p style="padding-left: 40px;">1.1 It shall have a ceiling mounted tube support that can move or travel in the following direction;                      longitudinal</p>		

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	<p>along the patient table, lateral travel across the table, vertical movement for tube height adjustment, tube angulation around horizontal axis to allow examination in upright position of patient in the vertical cassette stand tube rotation along vertical axis up to +/- 180 degrees</p> <p>1.2 The ceiling suspended tube support can provide the x-ray tube with long vertical travel that can be extended up to the knee area or legs of the patient in its upright position in the vertical cassette stand.</p> <p>1.3 The x-ray tube assembly consists of a dual focus, rotating anode x-ray tube with heat capacity of not less than 200,000 HU.</p>		

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	<p>1.4 All x-ray tube movements shall be secured by magnetic locks.</p> <p>2. <i>X-ray Generator</i></p> <p>2.1 The x-ray generator must be a high frequency inverter system type with power rating of not less than 75 KW.</p> <p>2.2 The power supply must be 220 VAC (+/- 10%), 60 HZ, three phase.</p> <p>2.3 The maximum rated tube voltage of the x-ray generator for radiography purposes shall be up to 150 KV</p> <p>2.4 The maximum rated tube current must not less than 800 mA.</p> <p>2.5 The generator must incorporate the Automatic</p>		

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	<p>Exposure Control (AEC)</p> <p>3. Collimation System</p> <p>3.1 The collimation system must be multileaf that can be controlled manually during radiography</p> <p>3.2 It must have automatic shut-off timer to preserve the collimator field lamp.</p> <ul style="list-style-type: none"><li>• Has a rectangular light field with cross hair markings and lamp/timer feature</li><li>• Swivel Mount allowing 360 deg rotation</li></ul> <p>With SID scales or indication</p> <p>3.3 With cross hair centering and pre-indication of field sizes at certain source to image distance (SID)</p>		

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	<p>4. X-ray Table</p> <p>4.1 The x-ray table top must be made of radiolucent material.</p> <p>4.2 It must be a four-way floating table top with a bucky system. It must also have an up and down movement.</p> <p>4.3 It must have foot switch and table hand control switches.</p> <p>4.4 Provided adjustable patient handgrips that can be mounted along concealed accessory rails on the sides of table</p> <p>5. Bucky System and Cassette Tray</p> <p>5.1 The x-ray machine must be provided with a vertical bucky stand comprise of x-ray grid</p>		

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	<p style="text-align: center;">with ratio of not less than 10:1</p> <p>5.2 It can accommodate FPD wireless cassettes of size up to 14 x 17 ". The same is true with bucky system in the x-ray table.</p> <p>5.3 The vertical bucky stand should be made up of Low absorption front cover material with cassette and AEC Indicators</p> <p>6. Operating / Control Console</p> <p>6.1 With technique selector and digital meter display for KV, mA and or mAs, exposure time</p> <p>6.2 Microprocessor controlled with anatomical programming function keys.</p> <p>6.3 It shall be provided with audible or visible indication of the x-ray exposure</p>		

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<b>III. Other Requirements</b>	<p>6.4 It must have an overload protection system.</p> <p>6.5 Provided with hand switch for control of radiographic exposure.</p> <p>7. The Flat Panel Detector</p> <p>7.1 The machine shall be provided with its latest technology of wireless flat panel detector that made up of Cesium Iodide as its capture element or scintillator.</p> <p>7.2 The active pixel dimensions of the flat panel detector should not more than 125 um. It should have a minimum spatial resolution of 3.5 line pairs/mm. The quantum detection efficiency (QDE) should be more than 65% at Zero Line Pair</p> <p>7.3 The cassette/s or detector/s provided shall be appropriate for examinations involving newborn, pediatrics and large adult patients.</p>		

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	<p>7.4 Provided with detachable battery and charger</p> <p>7.5 It must fits into standard Bucky trays and the wireless capability make it also ideal for tabletop use</p> <p>8.0 The Image Processing / Viewing Station</p> <p>8.1 The processing station must have 8 GB RAM, intel core i7 six generation, at least 500 GByte HDD and 19 inch or higher High Definition LED monitor.</p> <p>8.2 The processing station must be provided with appropriate Uninterrupted Power Supply (UPS)</p> <p>8.3 Processing server capable of identification of patient demographics to the acquired images.</p> <p>8.5 The server and /or ID station must be DMWL</p>		

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	<p>(DICOM modality worklist) compliant to access patient and study data from HIS or RIS.</p> <p>8.6 It should provide display of acquired images with greater details of demographics viz. patient/ study listing for easy access</p> <p>8.7 Capable in sorting of patient image based on name, date and exam.</p> <p>8.8 Can allow correcting typographical in patient demographic module, in case RIS connection was down and manual data entry was done.</p> <p>8.9 The server must provide full amount of post processing features viz. geometric corrections, window level algorithms, annotation like markers, predefined text, drawing lines and geometrical shapes, multi-scale image processing, measuring distance and angles, shuttering, histograms, zoom, grey scale</p>		

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	<p>reversal, edge enhancement, noise reduction, indication of gray scale saturation level, latitude reduction.</p> <p>8.10 Should be able to send DICOM images to DICOM workstation or PACS without loss of information</p> <p>8.11 Should store images in the local disk for predefined period and can be able to store image on external device such as DVD or USB Flash drive etc.</p> <p>8.12 The system should have ready DICOM interface and networking capability with RIS/HIS/PACS.</p> <p>1. The Digital Mobile X-ray Machine and the Digital Stationary Ceiling Mounted X-Ray</p>		

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	<p>Machine shall be of the same brand / manufacturer.</p> <p>2. The supplier shall provide four (4) radiology work stations same with existing hospital's Barco systems with at least 3MP medical grade monitors. The work stations will come with sturdy, functional, office desks to adequately bear the units, 6 ergonomic office chairs for the end-users, and an air-conditioning unit with inverter technology,</p> <p>3. The supplier shall provide the following Radiation Protection devices such as:</p> <ul style="list-style-type: none"> <li>a) Lead barriers: Three (3) movable whole body shields/lead barriers</li> <li>b) Two (2) thyroid shields</li> <li>c) Two (2) gonadal shields</li> <li>d) Two (2) Lead aprons</li> <li>e) Two (2) pair of lead goggles</li> </ul>		

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	<p>f) Two (2) lead gloves</p> <p>4. Warranty for 2 years stating free repair services and replacement of parts or units within the period. This includes immediate replacement or provision of back-up, in part or in whole – be it temporary or permanent, of any damaged or non-functioning unit</p> <p>5. The supplier, if given the award, shall submit a duly notarized preventive maintenance schedule upon delivery of the equipment.</p> <p>6. Must provide operation and instruction manuals with parts listings, tube rating chart and anode cooling chart.</p> <p>7. Supplier must provide orientation training for users and maintenance personnel of the hospital.</p>		

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	<p>8. The supplier shall provide (if necessary) all electrical cables to connect the x-ray machines to the hospital's power supply. The supplier must advise the hospital administration of the equipment's electrical requirement prior to delivery of the equipment.</p> <p>9. The supplier shall assist the hospital management in ensuring that the site intended for the ceiling mounted x-ray machines will be in accordance with the manufacturer's standard requirements.</p> <p>10. The supplier shall be responsible in providing the necessary equipment and/or devices needed for moving-in of the x-ray machines into the project site, if necessary.</p> <p>11. All cost associated with connectivity of the system to hospital PACS and HIS/RIS is the responsibility of the supplier</p>		

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	<p>12. The supplier shall provide the following accessories in addition to other standard accessories mentioned in the submitted brochures.</p> <ul style="list-style-type: none"><li>- Shoulder rest (one pair)</li><li>- Hand grip (one pair)</li><li>- Compression device (one set)</li><li>- two pieces lead gown</li><li>- two pieces measuring caliper</li></ul> <p>13. The manufacturer of the equipment being offered must conform with international safety and or quality standard as proven by the following certificates of conformance:</p> <ul style="list-style-type: none"><li>a) IEC 60601 Medical Electrical Equipment</li><li>b) CE Approved or ISO for Medical Equipment Quality Management System and ISO Quality Management System, or US FDA Approved.</li></ul> <p>14. The supplier can provide trained service</p>		

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	<p>personnel/s in the Philippines for preventive and corrective maintenance of the x-ray machines.</p> <p>15. The supplier shall provide a certificate of Dicom Conformance for the x-ray machines.</p> <p>16. The supplier must comply with the following conditions;</p> <p>a. must be either be the exclusive or authorized distributor of the principal company of the equipment and the necessary consumables in the Philippines.</p> <p>b. must have a Service Engineer or Technical personnel <u>based in Davao City</u> to do preventive maintenance and answer client calls in case of technical problems or concerns.</p>		

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The bidder is required to complete its Statement of Compliance demonstrating how its items complied with the specification. Non-completion of Statement of Compliance for the item included in its bid shall be considered **non- responsive** for that item.

<i>Item</i>	<i>Procuring Entity's Specification</i>	<i>Bidder's Specification as Technical Offer</i>	<i>Statement of Compliance</i>
	<p>c. Certificates of Training of the Company engineer / Technichal Personnel issued by the Principal or Manufacturer.</p> <p>d. provide company response within 24-48hrs should the existing equipment breaks down.</p> <p>e. provide a substitute trained technical personnel / specialist in cases when the service engineer is out of town or is not available.</p> <p>f. In case of machine downtime, the supplier is given 2 days to do remedial action (repair). On the 3<sup>rd</sup> day, if the unit is not operational, a penalty shall be imposed equivalent to the average daily income of the hospital derive from the affected machine".</p>		

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*Name and Signature of Authorized Representative*



# TECHNICAL SPECIFICATION

## **DIGITAL RADIOGRAPHY WITH X-RAY IMAGING SYSTEM,** **LEASE TO OWN FOR TWO (2) YEARS**

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<i>Item</i>	<i>Procuring Entity's Specification</i>	<i>Bidder's Specification as Technical Offer</i>	<i>Statement of Compliance</i>
	17. The Southern Philippines Medical Center has the right to terminate the contract for any violation in the terms and conditions stated in the technical specification and other reasons as stated in the GCC.		

The bidder may submit offer which provides for superior specification and/or better terms and conditions to the government. However, these shall not be given any bonus, credit or premium in the bid evaluation.

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*Name and Signature of Authorized Representative*