



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



TECHNICAL SPECIFICATIONS

SINGLE LOADER COMPUTED RADIOGRAPHY SYSTEM

Name of Project

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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<i>Item</i>	<i>Procuring Entity's Specification</i>	<i>Bidder's Specification as Technical Offer</i>	<i>Statement of Compliance</i>
MULTILOADER COMPUTED RADIOGRAPHY SYSTEM	<p><i>I. General Description</i></p> <p>The supplier shall supply and commission one (1) unit of single loader Computed Radiography System.</p> <p>Each CR System should broadly comprise of following modules/ components:</p> <ul style="list-style-type: none">a) Image recording system (cassettes & reading plates)b) Image reading system (reader/ digitizer)c) Identification & processing workstation for radiologic technologist <p>The CR System shall have the necessary application software for image acquisition and processing.</p> <p>The CR Systems can be connected and communicate with the existing RIS/PACS of the hospital. It must automatically process and delivers images to PACS.</p> <p>The CR System can store images to in DICOM 3.0 format.</p>		

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MULTILOADER COMPUTED RADIOGRAPHY SYSTEM <i>(continuation)</i>	<p>The CR system must employ a technology where it no longer uses rollers or other means to transport the Imaging plate (IP) or Storage Phosphor Screen (SPS) across the scan head. The IP or the SPS should already be embedded in the CR cassette and must not leave the cassette during image processing so that it may not subject to transport damage. This system will ensure an artifact free image processing</p> <p><i>II. Image Recording System</i></p> <p>Provides the following sizes of radiography cassettes along with image plates that should be supported by the unit.</p> <p>a. 35 cm X 43 cm or 14" X 17" .</p> <p>b. 24 cm X 30 cm or 10" X 12"</p> <p>There shall be a total of two (2) pcs (14 x 17") and two (2) pcs (10 x 12") for the two equipment</p> <p><i>III. Image Reading System (Reader/Digitizer)</i></p> <p>The CR reader / digitizer should be able to process 80 image plates/hr or higher of the 14 x 14" (35x 35 cm) size Cassette</p>		

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MULTILOADER COMPUTED RADIOGRAPHY SYSTEM <i>(continuation)</i>	<p>It should have a resolution of 11.0 pixels/mm (182 um) or better</p> <p>Gray scale resolution: CR reader / digitizer should have a minimum resolution of 12 bits/ pixel for images sent to CR processing station.</p> <p>It should have a minimum image preview time of less than 35 sec.</p> <p><i>IV. Identification and Processing Workstation for Radiologic Technologist</i></p> <p>a) The processing station must have 8 GB RAM, intel core i7 six generation, at least 1 TB HDD and 19 inch or higher clinical grade LCD monitor with at least 1.3 MP resolution or High Definition LED monitor.</p> <p>b) Processing server capable of identification of patient demographics to the acquired images.</p>		

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MULTILOADER COMPUTED RADIOGRAPHY SYSTEM <i>(continuation)</i>	<p>c) The server and /or ID station must have DMWL (DICOM modality worklist) compliant to access patient and study data from HIS or RIS.</p> <p>d) It should provide display of acquired images with greater details of demographics viz. patient/ study listing for easy access</p> <p>e) Capable in sorting of patient image based on name, date and exam.</p> <p>f) Can allow correcting typographical in patient demographic module, in case RIS connection was down and manual data entry was done.</p> <p>g) 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 reversal, edge enhancement, noise reduction, indication of gray scale saturation level, latitude reduction.</p> <p>h) Should be able to send DICOM images to DICOM workstation or PACS without loss of information.</p>		

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MULTILOADER COMPUTED RADIOGRAPHY SYSTEM <i>(continuation)</i>	<p>i) Should store images in the local disk for predefined period and can be able to store image on external device such as CD, DVD or USB drive etc.</p> <p>j) The software must have dedicated pediatric image processing.</p> <p><i>V. Other Requirements</i></p> <p>Power input to be 220-240VAC, 60Hz, Spike protector of appropriate rating should be provided</p> <p>Uninterrupted Power Supply (UPS) of suitable rating shall be supplied.</p> <p>The supplier shall provide one (1) brand new personal computers (laptop or desktop) for data encoding with laser printer for each.</p> <p>The supplier, if given the award, shall submit a duly notarized preventive maintenance schedule upon delivery of the equipment.</p>		

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MULTILOADER COMPUTED RADIOGRAPHY SYSTEM <i>(continuation)</i>	<p>The supplier shall provide (if necessary) all electrical cables to connect the equipment 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>The supplier shall be responsible in providing the necessary equipment and/or devices needed for moving-in of the machines into the project site, if necessary.</p> <p>The supplier shall provide a certificate of Dicom Conformance for the CR System.</p> <p>Other terms & conditions of acceptability:</p> <p>1. The equipment must be a BRAND NEW unit and under warranty including spare parts for at least two (2) years. Supplier must bind itself to conduct preventive maintenance on a quarterly basis at its own expense (including labor and cost of spare parts in compliance) with SPMC ISO and CQI Standards.</p>		

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MULTILOADER COMPUTED RADIOGRAPHY SYSTEM <i>(continuation)</i>	<p>2. All machines must be manufactured by a known and reputable company. The manufacturer of the equipment being offered must conform with international safety and or quality standard as proven by any of the following certificates of conformance:</p> <p>a) IEC for Medical Electrical Equipment</p> <p>b) CE Approved or ISO for Medical Equipment Quality Management System and ISO Quality Management System, or US FDA Approved.</p> <p>3. The equipment / machine must be able to comply with its installation and operation qualification which would be conducted in the presence of a Biomedical Technician, End-user and the Company Engineer.</p> <p>4. In line with the ISO standard requirement, the engineer must be capable of conducting annual calibration and the issuance of certificate for the said calibration based on the following data:</p> <p>a. Reference standards</p> <p>b. National Institute of Standards and Technology traceability</p> <p>c. Reference values</p> <p>d. Validity period</p> <p>e. Uncertainty of measurement</p>		

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MULTILOADER COMPUTED RADIOGRAPHY SYSTEM <i>(continuation)</i>	5. Supplier must comply with the following conditions: <div><div>a. Must either be the exclusive or authorized distributor of the principal company of the equipment and the necessary consumables in the Philippines.</div><div>b. Submit Certificate of Training of the Company Engineer / Technical Personnel and Product Specialist issued by the Principal or Manufacturer.</div><div>c. Provide company response through sending engineer or technical personnel within 24 – 48 hours in case of technical problems or equipment breakdown at the expense of the supplier.</div><div>d. In case of machine downtime, the supplier is given three (3) days for remedial action (repair and or replacement of spare parts). On the 4th day, if the unit is not operational, a back-up machine shall be provided (within the warranty period).</div></div>		

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MULTILOADER COMPUTED RADIOGRAPHY SYSTEM <i>(continuation)</i>	<p>6. The principal in coordination with the supplier must provide a comprehensive certification training program preferably onsite for the end users and biomedical technician without additional cost to the procuring entity. Supplier must submit a comprehensive training module as part of the technical specification which covers product orientation, hands-on training and troubleshooting. The said training must be conducted by a certified product specialist.</p> <p>7. The Supplier must submit the following:</p> <ul style="list-style-type: none">a. Three (3) copies of the Operating and Service Manuals in English during the delivery of the equipment.b. Notarized Certificate of availability of spare parts for the next ten (10) years.		

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MULTILOADER COMPUTED RADIOGRAPHY SYSTEM <i>(continuation)</i>	8. Cost of damages on the existing facility that will be incurred during delivery and installation of all equipment will be shouldered by the supplier. 9. 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 General Conditions of the Contract.		

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