



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



TECHNICAL SPECIFICATIONS

ONE (1) LOT BRAND NEW ELECTROCARDIOGRAM MANAGEMENT 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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| <u>ONE (1) LOT BRAND NEW ELECTROCARDIOGRAM MANAGEMENT SYSTEM</u> | <u>ONE (1) LOT BRAND NEW ELECTROCARDIOGRAM MANAGEMENT SYSTEM</u> Two (2) Electrocardiogram Management System Workstations System must be capable of natively accepting Resting ECG, 15-lead Pediatric and Adult ECG's, Graded Exercise Testing, Ambulatory Holter, Pre-Hospital 12-Lead, and 12Lead from Bedside Patient Monitors. System must be capable of supporting pre-hospital 12 lead ECG data from multiple vendors directly without use of third party format translator interface. System must be capable of performing a comparison of current and previous data for 12-Lead ECGs. The comparison must be performed on the actual waveform shape, statements and measurements. This comparison must be both automated function and a function that can be performed upon request. System must be capable or reanalysis of the ECG interpretation and measurements batch or on demand System must be capable of automatic report routing to network printers and share folders. | | |

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| <p><i>(Continuation)</i></p> <p><u>ONE (1) LOT BRAND NEW ELECTROCARDIOGRAM MANAGEMENT SYSTEM</u></p> | <p>System must be capable of automatic report routing to specific doctors from specific location System must be capable of automatic down load of visit account number and order number by using barcode scanner at ECG carts</p> <p>System must report age and gender specific analysis system may not be limited to a specific number of records.</p> <p>System must support querying multiple sites through a web browser/URL interface.</p> <p>System must be capable of being a part of Enterprise wide, Ethernet-based.</p> <p>System must have a minimum of 1500 installed sites</p> <p>System must be capable of supporting a secure remote access method for support personnel. System must have FDA 510(k) clearance to implement on virtual machine</p> <p>System must configurable for SAN storage.</p> <p>System must support bi-directional communication for wireless/LAN/Secure Digital Card download of orders and demographics to MAC Series electrocardiograph, and upload of test to system.</p> <p>System must support Orders download to CASE exercise system via Web interface.</p> <p>System must show patient ID name mismatch and date of birth mismatch</p> | | |

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| <i>(continuation)</i> <u>ONE (1) LOT BRAND NEW ELECTROCARDIOGRAM MANAGEMENT SYSTEM</u> | System must have ability to provide ADT data to CASE Graded Exercise Testing systems. System must have ability to provide Orders data to CASE Graded Exercise Testing systems. System must be capable of providing an automatic comparison of ADT and Orders data with incoming data from Holter systems. System must be capable of receiving and managing orders. System must be capable of downloading the Order information into respective ECG Carts on demand. System must be capable of providing results with both text and waveforms. System must be capable of providing direct integration into a "Physician" or "Hospital" portal for viewing of records. System must be capable of generating financial billing triggers. System must be interfaced to 15 or more EMRs/HIS and compatible with VistA CPRS and VistA Imaging System must have a minimum of 750 installed and operational sites with HL7 | | |

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| <i>(continuation)</i> <u>ONE (1) LOT BRAND NEW ELECTROCARDIOGRAM MANAGEMENT SYSTEM</u> | System must have proven the ability to import data from independent ECG device manufacturers using XML import System must be capable of importing data from third party devices in the following formats: .PDF, .JPG, .TIFF, .PNG, .DOC, .DOCX System must be capable of extracting Patient data automatically from .PDF document formats where .PDF is the format for ECG or other related patient information System must have the capability to allow median and raw data measurements in support of QT-Interval measurements. System must have a Thin-client (server-based computing) architecture for remote editing to enable faster operation and feature-rich applications System must support email service for automatic or manual routing of studies System must support client authentication methods for both Active Directory logins and application specific logins on generic workstations System must have dashboard to show various log details The unit is able to give automated measurements and interpretation of 10 seconds simultaneous 12 leads ECG. | | |

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| <i>(continuation)</i> <u>ONE (1) LOT BRAND NEW ELECTROCARDIOGRAM MANAGEMENT SYSTEM</u> | Changes in repolarization due to heart rate or ventricular conduction. Pacemaker Detection When used in conjunction with ECG devices, the system can identify pacing spikes $\geq 0.5\text{mV}$ amplitude and 0.2mS duration The ECG device as used in the detection of pacing spikes can sample at 75K samples per second The system can detect and show bi-ventricular pacing and include on the interpretation The interpretative algorithm can identify the underlying rhythm used for pacing Ten (10) Electrocardiograph Machines Microprocessor controlled automated electrocardiograph Microsoft windows operating system Operating modes: <ul style="list-style-type: none">• Resting ECG• Arrhythmia mode• Exercise mode• RR analysis mode | | |

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| <p><i>(continuation)</i></p> <p><u>ONE (1) LOT BRAND NEW ELECTROCARDIOGRAM MANAGEMENT SYSTEM</u></p> | <p>2. All machines must be manufactured by a known and reputable company with Certificate of Good Manufacturing Practice (GMP), TUV or ISO or its equivalent for equipment only.</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> <ul style="list-style-type: none"> a. Reference standards b. National Institute of Standards and Technology traceability c. Reference values d. Validity period e. Uncertainty of measurement <p>5. Supplier must comply with the following conditions:</p> <ul style="list-style-type: none"> a. Must be the exclusive or authorized distributor of the principal company of the equipment and the necessary consumables in the Philippines. | | |

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