



Republic of the Philippines
DEPARTMENT OF HEALTH
PHILIPPINE CHILDREN'S MEDICAL CENTER

Quezon Avenue, Quezon City 1100

website: www.pcmc.gov.ph email: officeofthedirector@pcmc.gov.ph

Trunk Line: 8588-9900 to 20 Direct Line: 8924-6601

NOTICE OF AWARD
NOA-2023-169

ENHANCED MEDICAL & INDUSTRIAL ENTERPRISES

2ND Floor Bldg 3 Golden Matina Complex

97 McArthur Highway,

Davao City

Tel. No. (082) 222-1077 / 0930-2604067

Dear Sir / Madam:

This is to inform you that based on the result of the conducted Public Bidding for the project stated below under Invitation to Bid No. IB-2023-122 as per BAC Resolution No.R2023-10-617, your proposal was found to be responsive.

QTY	UNIT	ITEM DESCRIPTION	TOTAL COST (Php)
1	lot	Supply, Delivery, Installation, Testing and Commissioning of Radiology Vendor-Neutral Archiving System Brand: RAMSOFT Model: OmegaAI <i>(see Annex "A" for detailed specifications)</i>	Php9,980,000.00

You are hereby required to provide on or before 26 OCT 2023 the Performance Security in either of the following form:



FORM OF PERFORMANCE SECURITY	AMOUNT OF PERFORMANCE SECURITY (Equal to Percentage of the Total Contract Price)
a) Cash or cashier's/ manager's check issued by a Universal or Commercial Bank	Five percent (5%) Php499,000.00
b.) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank	
c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Thirty percent (30%) Php2,994,000.00



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Failure to provide the Performance Security shall constitute sufficient ground for cancellation of the award and imposition of penalties/ forfeiture corresponding to the Bid Security posted.

Very truly yours,


SONIA B. GONZALEZ, MD MSCHSM, MPM
Executive Director 

Conforme:

This is to certify that the company has authorized me to accept this award, sign all related documents and hold the company bound by rules and laws applicable thereto.

Authorized Signatory (Signature over printed name)

Designation

Date

ENHANCED MEDICAL & INDUSTRIAL ENTERPRISES

QTY	UNIT	ITEM DESCRIPTION	TOTAL COST
1	Lot	Supply, Delivery Installation, Testing, And Commissioning Of A Radiology Vendor-Neutral Archiving System	Php9,980,000.00
		BRAND: RAMSOFT	
		MAKE/ M OmegaAI	
		I. SPECIFICATIONS:	
		A. Software Requirements and Licenses:	
		1 Unlimited License for Multi-Facility/Clinic Interconnectivity	
		2 Unlimited Concurrent Referring Physician Client Licenses	
		3 Unlimited Concurrent Radiologist Licenses	
		4 Unlimited Concurrent Radiologist and Referring Physician Licenses for Teleradiology	
		5 Unlimited Modality Connectivity	
		6 Support Dicom and Non-Dicom data	
		7 Receive and store DICOM objects with configurable options for performing lossless and lossy image compression of DICOM objects based on the study type, organization node, etc.	
		8 Validate DICOM object study metadata with a received HL7 order metadata. It should have the ability to coerce all changes to DICOM-related fields maintained in the database into the DICOM header upon export.	
		9 Include AI (Artificial Intelligence) empowered patient matching feature to improve patient matching functionality by matching patients with existing records to avoid double reading, unnecessary procedures, or misdiagnosis due to inability of the system to find prior studies due to patient name or demographic differences.	
		10 A mechanism for outbound auto-routing of received DICOM objects based on source organization, source device, or storage policy	
		11 DICOM web (QIDO-RS and WADO-RS)	
		12 Import, store, and manage non-DICOM clinical objects in the native format native (as received) format. must not convert non-DICOM objects to another format when storing import store and manage JPG, PNG, TIFF, PDF, MPEG, AVI, DOC, WAV, M4A, MP3, MP4, TXT, etc in their native format	
		13 Support exporting non-DICOM objects and making them available to other systems	
		14 Support lifecycle management of non-DICOM objects	
		15 Include a data Migration application	
		16 Capabilities Automation workflow	
		17 Provide a customizable clinical digital dashboard that provides historical storage use patterns with predictive usage analysis.	
		18 Seamlessly compatible and can query & retrieve old data with any and all existing PACS system.	
		19 Have a highly available and ensure Disaster Recovery (for the demographic database and image database) with a on Premise and a Cloud Redundant backup disaster recovery service.	
		20 Ensure security policies by the capacity to restrict user access to patient data by role/group membership, and audit all user access to patient data for HIPAA compliance. should offer remote monitoring capabilities for hardware and/or software malfunction, and notify the hospital of an impending failure.	
		21 Capabilities Interoperability	
		22 The system should have the ability to launch 3rd party applications/viewer.	
		23 Auto-Routing Policy	
		24 Has a marketplace available in the system or its equivalent.	
		B. Diagnostic Viewer	
		1 Basic Tools	
		a. Interactive zoom & pan	

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		b. Rotate and flip	
		c. Ability to measure CTR (Cardio Thoracic Ratio)	
		d. Cine display mode with adjustable rate	
		e. Ability to measure scoliosis using the Cobb Angle method	
		f. Ability to compensate for differing slice thickness when comparing images across series	
		g. Annotation, key image, and measurement data can be shared with all client workstations	
		h. Ability to export images in various formats (GIF, JPEG, DICOM)	
		i. DICOM Video Playback with 2D echo supports (.avi, .mp4 video import, and conversion)	
		j. Launching of web browser within the same browser window – no need to launch a secondary browser instance	
		k. True Size	
		l. True Size Printing - Distances measured on a printed film will reflect the true	
		m. Spine labeling feature to allow easy labeling of vertebra and disks within a study	
		n. When RF and US multi-frame studies are loaded, cine starts playing images automatically or manually	
		o. Images on a viewer are updated as new images from the study arrive without reloading the whole study again	
		2 Image Selection	
		a. Create customized worklists that our site, group, or user-specific	
		b. Filtering of worklists by multiple criteria, such as patient name, patient ID, and study date	
		c. Worklist presentation at the study, series, and image levels	
		d. Sorting of worklists by any of the displayed fields	
		e. Graphic selection by thumbnail images	
		f. Configurable display formats	
		g. Lock study to prevent it from being modified	
		h. Personalize the toolbar by placing frequently used functions into a personalized tab utility	
		i. Patient-centric worklist to easily access individual patient records	
		3 Image Display	
		a. Full-screen display mode	
		b. Drag and drop images into any viewer for comparison	
		c. Hounsfield Tool: Calculate and display the average pixel value within the defined area	
		d. Linking image groups for simultaneous review and comparison of multiple CT/MR series of the same patient	
		e. Automatic or manual linking of groups based on image orientation and position	
		f. Manual linking of groups based on correct anatomical alignment	
		g. Cross-reference lines between image groups (i.e. sagittal and coronal MRI images)	
		4 Hanging Protocol	

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ENHANCED MEDICAL & INDUSTRIAL ENTERPRISES

QTY	UNIT	ITEM DESCRIPTION	TOTAL COST
1	Lot	<p>Supply, Delivery Installation, Testing, And Commissioning Of A Radiology Vendor-Neutral Archiving System</p> <p>a. Use display protocols to automatically control nearly all aspects of initial image display (layout, grouping, 3D views, etc.)</p> <p>b. Enable customization for study type (modality, body part, imaging procedure, number of images, etc.)</p> <p>c. Automatic loading of (relevant) patient history and display for comparison</p> <p>d. Create display protocols with Display Protocol Wizard which offers step-by-step customization</p> <p>e. Provides a comprehensive set of pre-defined display protocols</p> <p>5 3D MPR</p> <p>a. Interactive Multi-Planar Reconstruction (3D MPR)</p> <p>b. Control of thickness and spacing</p> <p>c. Sectional images displayed on curved planes (double oblique)</p> <p>d. MinIP (Minimal Intensity Projection) support in a slab while using MPR</p> <p>e. Orientation Box enables the automatic fast transition to axial, coronal, or sagittal orientations.</p> <p>f. MPR (Multi-Planar Reconstruction) must be supported by using any app iOS, Mac OS, Android, and Windows.</p> <p>6 RIS and Reporting Functionality</p> <p>a. Manage Report and document templates with Template manager</p> <p>b. The template manager can store Pre define report templates</p> <p>c. Support amendment tracking for report changes and adjustments</p> <p>d. Able to create a report body template per each modality, body part, etc</p> <p>e. Able to share report templates among users</p> <p>f. Able to create a report and view images by using any app iOS, MAC, Android, and Windows.</p> <p>g. All PDF documents created or imported can be viewed</p> <p>h. Reports can be signed with an electronic signature automatically.</p> <p>i. Able to select the relevant template based on study content</p> <p>j. Support preliminary and addendum workflow</p> <p>k. Schedule Patient</p> <p>l. Users can customize schedules, displaying only the resources of interest, in a layout of their choosing.</p> <p>m. The Radiologist must able to view and create report remotely. Must compatible in any iOS, Android and Windows application.</p> <p>7 Referring Physician and Patient Portal</p> <p>a. Can allow referring physician access to reports in both draft and final status</p> <p>b. The radiologist can also create preliminary reports using this portal, and electronically sign them on the go. Any iOS and Android compatible.</p> <p>c. Image enhancement tools (zoom, pan, window/level, Invert, Rotate, mirror, magnifying glass, true size display, undo button, view DICOM headers of Images, localizer lines, distance measurements)</p>	Php9,980,000.00

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1	Lot	Supply, Delivery Installation, Testing, And Commissioning Of A Radiology Vendor-Neutral Archiving System	Php9,980,000.00
		d. Report distribution via QR code Can launch as a mini-viewer by using your mobile with the patient images and report without physically sending.	
		e. Can support playback of DICOM Video	
		f. FDA 510(k) cleared clinical image viewer: iOS, Android, MAC, and Windows compatible	
		g. Can generate QR code directly or include the code within the reports.	
		h. Physicians can able to view their own patient images and report immediately by scanning the QR code conveniently located on the patient report.	
		i. Can be configured to give referring physicians only access to their patients, or a user group patient.	
		j. Patients to have the option to access their current and prior images & reports using the patient portal.	
		k. Patients will be able to upload their medical documents using the patient portal.	
		l. Application will be available on the App Store on iOS and Android without additional cost.	
		m. Have a Social Login or Signup Support	
		C. Software and System Architecture	
		All modules should run on Windows Server OS.	
		The entire solution must use industry-leading technology to provide the highest level of operations and 100% uptime (No downtime) except during maintenance.	
		II. ACCESSORIES	
		1 CPU:	
		Intel Xeon 3.5 GHz	
		Windows Server 2019 standard with Hyper -V	
		Memory : 16 GB	
		Storage : RAID, 4 x 4 TB Hybrid HDD, Database and Image storage sized appropriately	
		Network Bandwith: 1,000 Mbps	
		Brand: LENOVO	
		Model: ST250	
		2 UPS: 1 kVA Online UPS	
		Brand: SANTAK	
		Model: CASTLE SERIES	
		3 1 unit (NAS) Network Attached Storage 20 TB	
		Brand: SYNOLOGY	
		Model: DS920	
		III. WARRANTY	
		A. Warranty and Service-Lease Agreement (SLA)	

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QTY	UNIT	ITEM DESCRIPTION	TOTAL COST
1	Lot	<p>Supply, Delivery Installation, Testing, And Commissioning Of A Radiology Vendor-Neutral Archiving System</p> <hr/> <p>1. Warranty of the system software for two (2) years, inclusive of quarterly onsite maintenance visits (DB Checks, Logs, System clean up, mandatory system integrity checks)</p> <hr/> <p>2. Manufacturers will offer turnkey server configurations that are designed to meet customer-specific requirements for virtualized hardware solutions.</p> <hr/> <p>3. The manufacturer will provide assistance configuring specific hardware solutions for customers who require physical servers.</p> <hr/> <p>4. Warranty for hardware systems (server, storage) is 2 years with mission-critical support 24/7.</p> <hr/> <p>IV. DELIVERY PERIOD</p> <p>Within Sixty (60) to Ninety (90) calendar days upon receipt of the Purchase Order/ Notice to Proceed.</p> <hr/> <p><i>With duly notarized certificate from Distributor - Enhanced Medical and Industrial Enterprises</i></p> <p><i>Certifies that:</i></p> <p>a. they have two (2) local certified technical support Engineers of Ramsoft OmegaAI.</p> <p>b. the technical support Engineers is local, regular employees and have been working in the company for more than six (6) months.</p> <hr/> <p><i>With duly notarized certificate from Principal Manufacturer - RamSoft Inc.</i></p> <p><i>Certifies that:</i></p> <p>a. Ramsoft Inc. have been present for Twenty-Eight (28) years in the local and international market. The version being bided is currently in use in the local and international market.</p> <p>b. Authorized Enhanced Medical and Industrial Enterprises to provide the following goods and services manufactured by Ramsoft Inc., OmegaAI VNA, Blume, and Gateway Router VNA, and to subsequently negotiate and sign the Contract.</p> <p>c. Extend full guarantee and warranty in accordance with respect to the goods and services offered by the Enhanced Medical and Industrial Enterprises.</p> <hr/> <p>Conforme to the attached Terms of Reference</p> <p>DELIVERY PERIOD: Within Sixty (60) to Ninety (90) calendar days upon receipt of the Purchase Order/ Notice to Proceed.</p>	Php9,980,000.00

Conforme:

 Authorized Signatory (Signature over printed name)

 Designation/Position

 Date

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PHILIPPINE CHILDREN'S MEDICAL CENTER
Quezon Ave. corner Agham Rd. Quezon City

TERMS OF REFERENCE

The Philippine Children's Medical Center is issuing these Terms of Reference (TOR) as part of the Bidding Documents for the undertaking on VENDOR NEUTRAL ARCHIVE SYSTEM

Summary Statement

- 1.1. In pursuit of a resilient and proactive Redundant Backup Solutions platform for the hospital's systems and applications, PCMC will be needing a Vendor Neutral Archive System.
- 1.2. The Philippine Children's Medical Center is issuing these Terms of Reference (TOR) as part of the Bidding Documents for the undertaking on the VENDOR NEUTRAL ARCHIVE SYSTEM. This TOR contains the functional requirements identified by the radiology division and review of the Management of Information Systems Division (MISD), based on data center requirements of healthcare systems and applications.
- 1.3. The model that MISD is considering is a Vendor Neutral Archive System that will comply with the terms of reference requirements set by the Agency.
- 1.4. The scope of this undertaking is to have a Vendor Neutral Archive System to complement the existing PACS system of the Philippine Children's Medical Center radiology division for two (2) years.
- 1.5. The PCMC intends to award a single contract to the Contractor that best meets the requirements.

Background Information

The Philippine Children's Medical Center, through its radiology division, has been developing and outsourcing healthcare systems and applications that cater to the needs of the hospital. VNA system is a Cloud-Native redundant backup system for DICOM and Non-DICOM data storage.

VNA is a technology that stores medical images in a standard format, which makes them accessible to healthcare professionals no matter what the images originated from. That means you can consolidate and archive images and data from various or existing PACS into a single repository.

One of the main advantages of the VNA system, it can provide healthcare practices with ownership of their imaging information. This reduces barriers related to sharing of data. VNA connect to any system, making data easily accessible and shareable so that users can manage multiple locations within their enterprise from one screen.

VNA optimize image viewer, and has the flexibility to allow users to use the image viewer of their choice, this eliminates learning a new system or retraining staff.

VNA benefits for Philippine Children's Medical Center:

Enhance Security: Flexible and Scalable it is easy to enhance security as needed.

Increased Patient Data Access: As a Cloud-Native technology users have access the patient data wherever they are.

Disaster Recovery: organization's ability to restore access and functionality to IT infrastructure after a disaster event, whether natural or caused by human error or action.

Expected Output

Outputs

The Philippine Children's Medical Center radiology Division will be expecting the following

- Redundant DICOM and Non-DICOM Backup system storage
- Redundant Backup system when existing PACS is down.
- Simply the Doctor can access and create a report remotely
- Disaster Recovery
- Correlated with Data Retention and Security Response Capabilities
- 24x7 technical support

General Scope

Objective

The objective of this undertaking is to have a Cloud Native Backup System for DICOM and Non-DICOM data to store centrally in Azure with a fully-secured and resilient data center infrastructure of the Philippine Children's Medical Center. The system is ready anytime for activation.

2.2 General Product Information

VNA System is a feature-rich software solution equipped with remote rendering, a universal worklist, a clinical image viewer, and complete radiology reporting and distribution features. Built from the ground up as a completely cloud-native solution, VNA can be accessed from any web-enabled device at any time. It also allows an unlimited number of users, modalities, and facilities.

Hardware Specifications

The following specifications are to be included in the Vendor Neutral Archive System

- Should have at least 16GB RAM
- Should have at least 4 CPU cores
- Should have at least eight (4) 4TB HDD as its data disks
- 24x7 Technical Support

Platform Specifications

The following specifications are to be included in the Vendor Neutral Archive System.

- Unlimited License for Multi-Facility/Clinic Interconnectivity
- Unlimited Concurrent Workstation Client Licenses
- Unlimited Concurrent Referring Physician Client Licenses
- Unlimited Concurrent Radiologist Licenses
- Unlimited Concurrent Radiologist and Referring Physician Licenses for Teleradiology
- Unlimited Modality Connectivity
- VNA should support Dicom and Non-Dicom data.
- VNA should be able to store multiple local patient ID's for a single patient in its database
- VNA should support configurable business policies for storing content (e.g. images) that are not dependent on the storage layer
- VNA should not have a physical or logical limitation on the number of users or devices which can be connected concurrently
- VNA should receive and store DICOM objects with configurable options for performing lossless and lossy image compression of DICOM objects based on the study type, organization node, etc.
- VNA should provide the ability to perform transformations on incoming DICOM header data before the population of its database
- VNA should provide the functionality to span DICOM query SCP (C-FIND) requests to one or more other DICOM archives providing a combined unified response to the originally requesting DICOM device.
- VNA should provide the functionality for forwarding DICOM retrieve (C-MOVE) requests to another DICOM archive
- VNA should provide the functionality of translating a DICOM object's originating facility patient ID into the requesting facility patient ID automatically upon DICOM query and retrieve
- VNA should provide a mechanism for outbound auto-routing of received DICOM objects based on source organization, source device, or storage policy
- VNA should support configurable business policies for storing received DICOM objects including the number of copies of a DICOM object to store, Type and ratio of image, Type and ratio of image compression to use, and Object retention period.
- VNA should support DICOM web (QIDO-RS and WADO-RS)
VNA should import, store and manage non-DICOM clinical objects in the native format native (as received) format. VNA must not convert non-DICOM objects to another format when storing
- VNA should import store and manage JPG, PNG, TIFF, PDF, MPEG, AVI, DOC, WAV, M4A, MP3, MP4, TXT etc in their native format
- VNA should support exporting non-DICOM objects and making them available to other systems
- VNA should support the lifecycle management of non-DICOM objects
- VNA should offer a mobile app to capture photos/videos/sound/text notes related to the patient at the point of care and support capturing an unlimited amount of content per patient on the same encounter. This app must record contents at full resolution and store it at full resolution in the VNA.

Proof of Compliance:

The following specifications are to be included for the principal vendor of the Vendor Neutral Archive System:

- SOC 2 Type II
- HIPAA Compliant

- FDA 510 (k) Clearance or its equivalent
- IHE (Integrating the Healthcare Enterprise)

Proof of capability from Bidder:

- i. That they must have at least two (2) local certified technical support engineer of the brand being offered;
- ii. That the technical support engineers should be local, regular employees and have been working under the bidders organization at least six (6) months prior to the submission of the bid;
- iii. That they must submit valid certification documents such as CV, Company ID of the certified engineer; and
- iv. That they must submit a certificate from principal/local distributor that the company is an authorized and expert partner of the solutions being offered.

Scope of Work

The scope of work requires the bidder to provide installation and configuration of the Vendor Neutral Archive for PCMC

The Provider shall be responsible for:

- i. Installation of Hardware and Cloud Backup storage system.
- ii. Wiring of Fiber Optic (From Radiology Department to MISD Office)
- iii. Site Inspection
- iv. Redundant Cloud backup disaster recovery
- v. All migration and connecting costs with the current PACS/RAM SOFT

Service Commercial & Access Terms:

- i. Software Updates Free-Unlimited during the contract duration. Onsite visit;
- ii. Telephone Calls / SMS Assistance -Free-Unlimited 24 / 7,6 days a week except for Sundays;
- iii. Remote Technical Support (i.e. online calls: internet chats/ emails, team viewer checks)-Free-Unlimited 24 hours, 6 days a week except for Sundays;
- iv. On-Site Visits are Free and available upon pre-arranged appointment schedule. Office hours except for Saturdays and Sundays.

CONFORME:

Authorized Signatory
Signature over printed name

Contact No:

Name of Company/Firm

Company's Official Email Address
(where notices will be sent)

Company's Official Contact No.