

REFERENCE OF TENDER	DESCRIPTION OF TENDER	TIME PERIOD OF TENDER	DEPARTMENT/DIVISION/ UNIT REQUESTING TENDER	FEES	CLOSING DATE NOT LATER THAN 2.00PM	FOCAL PERSON
KK/299/2022/HTD	SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF TWO (2) UNITS PORTABLE ULTRASOUND MACHINE FOR THE EMERGENCY DEPARTMENT, HOSPITAL RIPAS	-	DEPARTMENT OF HEALTHCARE SERVICES	\$30.00	22 ND NOVEMBER 2022	Muhd Amirul Fazleen bin Haji Khalidin Biomedical Engineer Department of Healthcare Technology Ministry of Health Negara Brunei Darussalam e-mail: fazleen.khalidin@moh.gov.bn

SECTION 2

SPECIFICATIONS AND REQUIREMENTS

TENDER REFERENCE NO: KK/299/2022/HTD

INVITATION TO TENDER

SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF TWO (2) UNITS PORTABLE ULTRASOUND MACHINE FOR THE EMERGENCY DEPARTMENT, HOSPITAL RIPAS

DELIVERY PERIOD	NOT MORE THAN 90 DAYS
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REF. NO.	DESCRIPTION
1	Two (2) units of portable ultrasound machine
2	Three (3) units of Transducers for each machine
3	BruHIMS and/or PACS integration
4	User training
1	ONE (1) UNIT OF PORTABLE ULTRASOUND MACHINE
1.1	Lightweight "laptop style" ultrasound machine complete with suitable and compatible, height adjustable, trolley
1.2	Primary application: Point-of-care / Emergency
1.3	System works on battery
1.4	System has one or more active transducer port
1.5	System has at least 15 inch monitor with high resolution and wide viewing angle
1.6	System must have conventional alphanumeric keypad input devices; having a touchscreen is not a requirement but a good optional.
1.7	System has all standard ultrasound system features such as B mode, M-Mode, Power Doppler Imaging (FDI) and including B-flow and needle recognition modes
1.8	System should have a one button automatic image optimization feature that optimizes gain and brightness in two dimensions for 2D-mode imaging
1.9	System shall support multi frequency convex-, phased-, linear-array and endo-cavity transducer
1.10	System is capable of utilizing probes with a frequency range of 1 – 20 Mhz
1.11	System have semi-automatic measurement package that generates measurement data for 2D, M-mode and spectral doppler.
1.12	System has at least 180 GB SSD or better
1.13	The proposed system must include DICOM and Worklist licenses
1.14	System able to export images in different format
1.15	System able to export to USB flash drive

REF. NO.	DESCRIPTION
1.16	System provide DICOM Storage and connectivity to Hospital PACS System
1.17	System support full access for remote service delivered through secure, high speed network
1.18	System is Wi-Fi ready complete with a built-in wireless adapter
2	THREE (3) UNITS OF TRANSDUCERS FOR EACH MACHINE
2.1	One (1) unit of Linear Probe
2.2	One (1) unit of Phased Array Probe
2.3	One (1) unit of Curvilinear Probe
3	BRUHIMS AND/OR PACS INTEGRATION
3.1	The proposed system must be able to connect to BruHIMS and/or PACS in MOH Brunei Darussalam until the end of service (Which ever appropriate)
3.2	The proposed system must be "plug-and-play" ready and should be integrated with the MOH Brunei BruHIMS and/or INFINITT PACS system before handing over to user. (Integration cost from any third-party company** must be included in the price proposal and attach the quotation for reference)
3.2	The proposed system must be able to perform DICOM services including but not limited to, Storage, Query/Retrieve, Modality Worklist, Print, Modality Performed Procedure Step (MPPS) and others as required to integrate with future or existing BruHIMS/PACS system.
4	USER TRAINING
4.1	Conduct user training to the all end users by an application specialist or competent local engineer including but not limited to: <ul style="list-style-type: none"> • Basic operation and troubleshooting • Basic user maintenance and PACS guide through • Operating manual (Hardcopy) • Operating manual (Softcopy)
4.2	Refresher course after six (6) months of first training

* In your quotation/tender document, please breakdown/itemized the price for each accessories/ consumables

** Folec Communications (B) Sdn Bhd – PACS integration
Precept/Dynamik Technologies Sdn Bhd – BruHIMS integration

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/299/2022/HTD

INVITATION TO TENDER

**SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF TWO (2) UNITS
PORTABLE ULTRASOUND MACHINE FOR THE EMERGENCY DEPARTMENT, HOSPITAL
RIPAS**

TENDER OF (*name of tenderer*) : _____

Company/Business Registration No. : _____

Tender Closing Date : _____

ANNEX A – USER REQUIREMENTS

DELIVERY PERIOD	
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REF. NO.	DESCRIPTION	Tick (✓)		STATE OR SPECIFY	
		YES	NO	REMARKS	BROCHURE PAGE
1	Two (2) units of portable ultrasound machine				
2	Three (3) units of Transducers for each machine				
3	BruHIMS and/or PACS integration				
4	User training				
1	ONE (1) UNIT OF PORTABLE ULTRASOUND MACHINE				
1.1	Lightweight “laptop style” ultrasound machine complete with suitable and compatible, height adjustable, trolley				
1.2	Primary application: Point-of-care / Emergency				
1.3	System works on battery				
1.4	System has one or more active transducer port				
1.5	System has at least 15 inch monitor with high resolution and wide viewing angle				
1.6	System must have conventional alphanumeric keypad input devices; having a touchscreen is not a requirement but a good optional.				

REF. NO.	DESCRIPTION	Tick (✓)		STATE OR SPECIFY	
		YES	NO	REMARKS	BROCHURE PAGE
1.7	System has all standard ultrasound system features such as B mode, M-Mode, Power Doppler Imaging (FDI) and including B-flow and needle recognition modes				
1.8	System should have a one button automatic image optimization feature that optimizes gain and brightness in two dimensions for 2D-mode imaging				
1.9	System shall support multi frequency convex-, phased-, linear-array and endo-cavity transducer				
1.10	System is capable of utilizing probes with a frequency range of 1 – 20 Mhz				
1.11	System have semi-automatic measurement package that generates measurement data for 2D, M-mode and spectral doppler.				
1.12	System has at least 180 GB SSD or better				
1.13	The proposed system must include DICOM and Worklist licenses				
1.14	System able to export images in different format				
1.15	System able to export to USB flash drive				
1.16	System provide DICOM Storage and connectivity to Hospital PACS System				
1.17	System support full access for remote service delivered through secure, high speed network				
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2	THREE (3) UNITS OF TRANSDUCERS FOR EACH MACHINE				
2.1	One (1) unit of Linear Probe				
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3	BRUHIMS AND/OR PACS INTEGRATION				
3.1	The proposed system must be able to connect to BruHIMS and/or PACS in MOH Brunei Darussalam until the end of service (Which ever appropriate)				
3.2	The proposed system must be “plug-and-play” ready and should be integrated with the MOH Brunei BruHIMS and/or INFINITT PACS system before handing over to user. (Integration cost from any third-party company** must be included in the price proposal and attach the quotation for reference)				
3.2	The proposed system must be able to perform DICOM services including but not limited to, Storage, Query/Retrieve, Modality				

REF. NO.	DESCRIPTION	Tick (✓)		STATE OR SPECIFY	
		YES	NO	REMARKS	BROCHURE PAGE
	Worklist, Print, Modality Performed Procedure Step (MPPS) and others as required to integrate with future or existing BruHIMS/PACS system.				
4	USER TRAINING				
4.1	Conduct user training to the all end users by an application specialist or competent local engineer including but not limited to: <ul style="list-style-type: none"> • Basic operation and troubleshooting • Basic user maintenance and PACS guide through • Operating manual (Hardcopy) • Operating manual (Softcopy) 				
4.2	Refresher course after six (6) months of first training				

* In your quotation/tender document, please breakdown/itemized the price for each accessories/ consumables

** Folec Communications (B) Sdn Bhd – PACS integration
Precept/Dynamik Technologies Sdn Bhd – BruHIMS integration

ANNEX B - PROCUMENT

REF. NO.	DESCRIPTION	Tick (✓)		REMARKS
		YES	NO	
1	ORIGINAL BROCHURE OR CERTIFIED TRUE COPY OF BROCHURE ATTACHED:			Required to assist during evaluation of tender document
2	WARRANTY			Warranty period:
		FILL IN THE DETAILS		
3	BRAND			
4	MODEL			
5	COUNTRY OF ORIGIN			
6	UNIT PRICE (BND)			
7	TOTAL PRICE (BND)			
8	PRICE VALIDITY			
9	DELIVERY TIME			
10	YEAR MANUFACTURED			
11	EQUIPMENT LIFE SPAN ESTIMATION:			
12	NUMBER OF TECHNICAL SUPPORT (LOCAL)			
13	NUMBER OF TECHNICAL SUPPORT (OVERSEA) State nearest location			
14	PREVENTIVE MAINTENANCE During warranty period, tenderer must perform preventive maintenance twice a year (Preventive maintenance conducted must be recorded and a copy of the document must be available for user and Biomedical engineering.)			Include but not limited to: 1) General cleaning 2) Physical check 3) Function and performance testing 4) Calibration
15	Please attach a list of: 1) Scope of work for preventive maintenance 2) List of PM kits or parts to be replace during PM if applicable			Please attach list on a separate sheet
16	INTERNATIONAL SAFETY STANDARD			US FDA
				EU CE MARK
				AUSTRALIAN TGA
				CANADA CSA
				JAPAN JIS
				OTHERS:
				OTHERS:

ANNEX C - TECHNICAL SPECIFICATION

TICK (✓) OR CIRCLE (O) ONE OR MORE AND STATE WHERE APPROPRIATE				
A. ELECTRICAL				
POWER SUPPLY	AC POWER	DC POWER	BOTH	N/A
AC POWER TYPE	SINGLE PHASE	THREE PHASE		
AC POWER CORD	3 Pin Type G Power Plug - Grounded		OTHERS:	
AC POWER RATING	220V	230V	240V	OTHERS:
DC POWER TYPE	INTERNAL/ BUILT-IN BATTERY	REMOVABLE BATTERY	DISPOSABLE BATTERY	RECHARGABLE
BATTERY TYPE	LITHIUM ION	NICKEL CADMIUM	LEAD ACID	OTHERS: AAA / AA/ 9V
BATTERY RATING	V	MAH	OTHERS:	
BATTERY CAPACITY/ RUNNING HOURS	HOURS (FULL LOAD OR CONTINUOUS)		HOURS (OTHERS)	
BATTERY CHARGER	SUPPLIED	NOT INCLUDED	N/A	
BATTERY CHARGER OUTPUT				
BATTERY CHARGE TIME	HOURS (MAX)		HOURS (MIN)	
POWER CONSUMPTION			N/A	
FUSE RATING			N/A	
CLASSIFICATION	CLASS I	CLASS II	CLASS II	
IP CODE (IEC standard 60529)			N/A	
UPS	BUILT-IN	INCLUDED	N/A	
OVERLOAD PROTECTION	YES	NO	UPS RATING:	VA

B. PHYSICAL				
DESCRIPTION	VALUE FILL IN THE VALUE	UNITS		
		TICK (✓), CIRCLE (○) OR STATE WHERE APPROPRIATE		
WEIGHT		KG	LBS	OTHERS:
EXTERNAL HEIGHT		MM	CM	OTHERS: M / INCH / FT
EXTERNAL WIDTH		MM	CM	OTHERS: M / INCH / FT
EXTERNAL DEPTH		MM	CM	OTHERS: M / INCH / FT
OTHER WEIGHT:		KG	LBS	OTHERS:
OTHER DIMENSION:			MM	OTHERS: CM / M / INCH / FT

C. OTHERS			
WATER OUTLET	YES	NO	REQUIRED PRESSURE:
DRAIN OUTLET	YES	NO	PIPE DIAMETER:
AIR- CONDITIONED ROOM	YES	NO	
EXHAUST FAN	YES	NO	
NEGATIVE PRESSURE ROOM	YES	NO	
OTHERS:			

D. SCOPE OF WORK				
SUPPLY	YES	NO	N/A	All standard, accessories and additional requests in Annex A - Requirement
INSTALLATION	YES	NO	N/A	Properly install before user operates
COMMISSIONING	YES	NO	N/A	<ul style="list-style-type: none"> Register with Biomedical Engineering Asset Tagging
ELECTRICAL SAFETY TEST	YES	NO	N/A	To provide proof of electrical safety test done by manufacturer or supplier during commissioning
TECHNICAL TRAINING	YES	NO	N/A	To conduct technical training to Biomedical Engineering (BME) staffs including but not limited to: <ul style="list-style-type: none"> Basic troubleshooting Minor setting adjustments
	LOCAL	OVERSEA	N/A	Conduct during or after commissioning Else, proper technical training at manufacturer premises
Technical/service manual for BME	YES	NO		Either softcopy or hardcopy

1. We offer and undertake on your acceptance of our Tender to provide the above mentioned services in accordance with your Invitation To Tender.
2. Our Tender is fully consistent with and does not contradict or derogate from anything in your Invitation To Tender. We have not qualified or changed any of the provisions of your Invitation To Tender.
3. OUR OFFER IS VALID FOR **TWELVE (12)** CALENDAR MONTHS FROM THE TENDER CLOSING DATE.
4. When requested by you, we shall extend the validity of this offer.
5. We further undertake to give you any further information which you may require.

Dated this _____ day of _____, _____

Signature of authorised officer of Tenderer

Name:

Designation:

Tenderer's official stamp