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/139/2025/HTD	PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH		DEPARTMENT OF HEALTHCARE TECHNOLOGY	$500.00	24TH June 2025	*Muhd Amirul Fazleen bin Haji Khalidin* *Biomedical Engineer* *Suri Seri Begawan Hospital, Kuala Belait* *Ministry of Health* *Negara Brunei Darussalam* *Contact No: 3335331 ext 4222* *email : fazleen.khalidin@moh.gov.bn*

TENDER REFERENCE NO.:KK/139/2025/HTD

MINISTRY OF HEALTH
NEGARA BRUNEI DARUSSALAM

PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

TENDER FEES : $500.00

RECEIPT NO. :

CLOSING DATE : ON TUESDAY, 24TH JUNE 2025

TIME : 2.00 PM

FOA :

THE CHAIRMAN
MINI TENDER BOARD, TENDER BOX
GROUND FLOOR, MINISTRY OF HEALTH
COMMONWEALTH DRIVE
BANDAR SERI BEGAWAN BB3910
NEGARA BRUNEI DARUSSALAM

(NON CLUSTERING)

SECTION 2

SPECIFICATIONS AND REQUIREMENTS

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

NO.	TERMS AND CONDITIONS
1	Tenderer must be registered with the Ministry of Health.
2	**TENDER FORM should be filled** completely including the **USER REQUIREMENT FORM** (if available). Submission of incomplete form **MAY** cause **DISQUALIFICATION OF TENDER.**
3	Each tenderer is allowed to quote **ONE BRAND/ MODEL WITH ONE PRICE ONLY** for each item. Submission of more than one brand/model and price will cause **DISQUALIFICATION OF TENDER.**
4	Tenderers are **required to submit individual proposal booklets for each item listed**. Each item shall be treated as a standalone submission
5	All consumables supplied throughout this tender shall have a minimum expiry date of **twelve (12) months / on delivery** (if applicable). Should the consumables be urgently needed, provision of consumables with expiry date of less than twelve (12) months should be first agreed by the User before delivery is made (if applicable).
6	Brochures / catalogues should be submitted / attached with tender document.
7	Any room renovation which may be required, it is mandatory to conduct site visit (if applicable)
8	Samples should be submitted together with tender or within fourteen (14 days) of the tender closing dates (if applicable).
9	DELIVERY PERIOD: (Please state) Not More Than **90 days** upon confirmation
10	PRICE VALIDITY: The quotation shall remain valid for **12 MONTHS** from the final date for the submission of the quotation and no supplier may withdraw his/her quotation within that period. The Government reserves the right to extend this period if deemed necessary provided that such extension to the quotation validity period shall have written consent of the supplier(s).
11	The equipment supplied must be **newly manufactured**, unused, and in its original, sealed packaging. The equipment must not be previously owned, refurbished, or reconditioned in any form.
12	The vendor is required to provide **proof of manufacture date** and official certification from the original manufacturer confirming the equipment is **new**.
13	To provide justification for the price increase of a product previously supplied to the Ministry of Health by the same supplier/distributor

SCOPE OF WORK AND SUMMARY OF PRICES	
This tender is for the supply of Ultrasound machines under a non-clustering approach for the following items:	
Description	**Quantity**
Item 1: High-End Ultrasound System	**3 Units**
Item 2: Breast Imaging Ultrasound System	**2 Units**
Item 3: Mid-End Ultrasound System	**1 Unit**
Item 4: O&G Ultrasound System	**3 Units**
Item 5: Ultrasound Examination Couch and Chair	**6 Units**

ITEM 1	HIGH-END ULTRASOUND SYSTEM
1	SYSTEM ARHITECTURE
REF. NO.	DESCRIPTION
1	Three (3) units of high-end, cart-based ultrasound (US) system.
2	High-end ultrasound system with advanced imaging features such as high-resolution imaging, needle enhancement, elastography, AI-assisted imaging analysis. Support for contrast agents with specific pre-sets and quantification tools.
3	Advanced clinical applications: For comprehensive radiology studies for both adult and paediatric patients including abdominal, vascular, obstetrics, gynaecology, small parts, transcranial, paediatric and neonatal, musculoskeletal, urological and cardiac applications.
4	System must be able to provide exceptional clarity, resolution and depth of penetration.
5	The system is fully digital, compact, lightweight and easy to move.
6	Comes with independent steer and central locking wheels.
7	Comes with front and rear handles.
8	Has at least four (4) active transducer ports and one (1) parking probe port.
9	Has alphanumeric soft keys physical keyboard with easy access scans controls and facility to sanitise the system's keyboard to avoid cross contamination.
10	Has trackball for moving cursor
11	Inclusive of two (2) gel bottle holders.
12	Inclusive of one (1) unit of integrated gel warmer.
13	Has integrated cable management.
14	System storage: integrated SSD or HDD or both.
15	System storage: at least 1.5TB in total
16	Operating system: Window 10 or latest
17	Operating system: install on SSD
18	Has cybersecurity program to protect system
19	Power: able to operate on AC and on battery for at least 60 minutes or better
20	Battery: Self charging and has low-battery indicator
21	External data interface such as integrated DVD-RW drive, USB or its equivalent to enable external images transfer manually.
22	Capable to compare images from previous study.
23	Multiple preloaded application pre-sets available.
24	Control Monitor/Touch Panel Type: Touchscreen colour display.

ITEM 1	HIGH-END ULTRASOUND SYSTEM
1	SYSTEM ARHITECTURE
REF. NO.	DESCRIPTION
25	Control Monitor/Touch Panel Size: at least 9 inches or better
26	Control Monitor/Touch Panel has back-lighting
27	Display Viewing Monitor Type: LCD technology or better
28	Display Viewing Monitor Size: at least 22” or better
29	Display Viewing Monitor Resolution: Full HD (1920 x 1080) or better
30	Display Viewing Monitor has adjustable arm: can adjust tilt, swivel and height.
31	Display Viewing Monitor has adjustable contrast and brightness
32	Display Viewing Monitor can be fold down and locked for transportation.
33	Labelling and markings shall be clear legible and durable. (Durable to withstand routine cleaning)
34	**OPERATING MODES** The proposed system must include but not limited to the following operating modes:
34.1	Brightness-mode (B) for fundamental imaging mode for anatomical visualization.
34.2	Motion-mode (M) for motion analysis.
34.3	Trapezoidal mode for extended field of view for linear probes.
34.4	Pulsed wave (PW) mode for assessment of blood flow velocities
34.5	Continuous wave (CW) doppler mode for analysing high-velocity blood flow
34.6	Colour flow (CF) mode for mapping blood flow direction and velocity.
34.7	Power doppler imaging (PDI) mode for detecting low-velocity blood flow.
34.8	Contrast and tissue harmonic imaging for enhancing imaging for vascular studies and for clearer visualization of structures.
34.9	Spatial compounding for improving image quality by combining multiple beam angles.
34.10	Extended and convex field of view for enhancing visualization for larger areas during scanning
34.10	Speckle reduction imaging for reducing noises for clearer images
34.11	Automatic image optimisation for B-mode and doppler.
34.12	2D shear wave elastography for quantitative assessment of liver stiffness for fibrosis and Ultrasound-Derived Fat Fraction (UDFF) feature to measure the amount of fat within the liver tissues.
34.13	Adjustment of focal zone, gain, TGC, dynamic range, edge enhancement, gamma correction.
34.14	Frequency tuning for probes to adjust the frequency range on all transducers.

ITEM 1	HIGH-END ULTRASOUND SYSTEM
1	**SYSTEM ARHITECTURE**
REF. NO.	**DESCRIPTION**
34.15	Operator controlled multiple and adjustable focal zones.
34.16	Real-time pan zoom capability
34.17	Tools for labelling and anatomical markers for image annotation
34.18	Customizable user defined pre-sets for variety of clinical applications.
34.19	2D cine memory and M-mode scroll memory.
34.20	Cine loop facility up to one minute at 25 frames per second (fps).
34.21	Fast random-access image review.
34.22	Ability to apply wide variety of image processing after the examination.
34.23	Full size and split-screen display.
34.24	Support the following simultaneous display capability: B/PW
34.25	Support the following simultaneous display capability: B/CF
34.26	Support the following simultaneous display capability: B/spatial compounding
34.27	Support the following simultaneous display capability: B/PDI
34.28	Support the following simultaneous display capability: B/M
34.30	Multi-image split-screen display capability with combination such as: Live and frozen image comparisons
34.31	Multi-image split-screen display capability with combination such as: B or spatial compounding and B or spatial compounding
34.32	Multi-image split-screen display capability with combination such as: B or spatial compounding and CF
34.33	Multi-image split-screen display capability with combination such as: B or spatial compounding and PDI
34.34	Multi-image split-screen display capability with combination such as: PW/M
35	**MEASUREMENT AND CALCULATION PACKAGES** The proposed system shall include the following:
35.1	Basic measurements tools such as: distance (four points), angle (two points), calculation of diameter, area, circumference, calculation of volume by height/width/length, planimetry, automatic planimetry and empirical method.
35.2	Automated measurement packages including reports for abdominal, urology, renal, cardiac (M-mode and B-mode), obstetrics and gynaecological, vascular and blood flow, tissue elastography, musculoskeletal measurements, 3D/4D volume.
35.3	Real-time automatic doppler calculations and waveform indices.
35.4	Tools for hip dysplasia calculations including angle and joint measurements.

ITEM 1	HIGH-END ULTRASOUND SYSTEM
1	**SYSTEM ARHITECTURE**
REF. NO.	**DESCRIPTION**
35.5	Shear wave elastography measurement of liver stiffness in both m/s and kPa with automated interquartile range (IQR) and median value.
35.6	Inclusive of automatic foetal biometry tools measuring key foetal parameters like head circumference (HC), abdominal circumference (AC), femur length (FL) and biparietal diameter (BPD).
35.7	Inclusive of automated carotid intima-media thickness (CIMT) measurement tools.
35.8	Support panoramic imaging up to 60cm and curved imaging up to 360^{o}
35.9	Inclusive of Shear wave elastography (SWE) and advanced strain imaging features for both quantitative and qualitative elastography and to measure tissue deformation in response to compression, ideal for small parts like breast and thyroid.
35.10	Inclusive of **quantitative assessment of liver fat content using ultrasound or** ultrasound-derived fat fraction (UDFF).
36	**NETWORKING, CONNECTIVITY AND PACS INTEGRATION**
36.1	Must fully support and comply to DICOM 3.0 standards, including: 1. DICOM Image Storage, 2. DICOM Modality Worklist (MWL), 3. DICOM Query/Retrieve (Q/R) and 4. DICOM Structured Reporting (SR)
36.2	Must support Modality Performed Procedure Step (MPPS)
36.4	Allow bidirectional data exchange for seamless workflow.
36.5	Image must be able to store as DICOM and PC format
36.6	System must have wireless connectivity and ethernet RJ45
36.7	System must be HL7 ready and activated
36.8	The systems proposed shall be integrated and connected to Radiology PACS (RPACS) therefore ALL licenses for integration with PACS should be included. Tenderer to include the cost of PACS integration quoted from PACS vendor. Please refer to PACS vendor for information on PACS integration requirement. Tenderer may contact the quotation of PACS integration for this project directly to the MOH's PACS vendor or through the Healthcare Technology Department, Ministry of Health

2	**TRANSDUCERS**
REF. NO.	**DESCRIPTION**
	The following transducer shall be included for each of the three high end ultrasound system:
1	Three (3) units of high frequency **linear** transducer **for vascular, small parts, breast and musculoskeletal.** (Tenderer to state the frequency.)
2	Three (3) units of broadband **curved array** transducer **for general purpose abdominal and obstetric.** (Tenderer to state the frequency.)
3	Three (3) units of broadband **phased array** transducer (micro-convex or sector) **for cardiac echo and paediatric transcranial ultrasound. (**Tenderer to state the frequency.)
4	Three (3) units of broadband curved array transducer **for liver shear wave elastography** (applicable only if a separate probe from the above is required for this purpose)
5	Three (3) units of linear array **hockey stick** transducer for **peripheral vascular, small parts and superficial structures. (**Tenderer to state the frequency.)
6	One (1) unit of curved **intra-cavitary** transducer **for transvaginal obstetrics and gynaecology scan** for RIPASH Radiology. Tenderer to state the frequency.
7	**All transducers supplied must have a warranty period of at least one (1) year or better and comes with the necessary probe cover (if applicable)**

3	**DELIVERY AND INSTALLATION SITES**
REF. NO.	**DESCRIPTION**
	Distribution for delivery, installation, testing and commissioning sites are as follows:
1	One (1) unit for Main ultrasound room, Radiology Department, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.
2	One (1) unit for Radiology Unit, Pengiran Muda Mahkota Pengiran Muda Haji Al-Muhtadee Billah (PMMPMHAMB) Hospital, Tutong
3	One (1) unit for Radiology Unit, Suri Seri Begawan (SSB) Hospital, Kuala Belait

4	**WARRANTY AND 3 YEARS POST WARRANTY PREVENTIVE MAINTENANCE (PM)**
REF. NO.	**DESCRIPTION**
1	Tenderer to include warranty period of **at least two (2) years**
2	Tenderers to **ACKNOWLEDGE** the Warranty Undertaking Form in Section 4 stating the terms of warranty provided for the equipment in the tender for the period of two years. This includes but not limited to:
2.1	Scope of Warranty
2.2	Two time Planned Preventive Maintenance during warranty [Manufacturer's Standard]
3	Tenderer to provide additional 3 years Preventive Maintenance service post warranty [At least One Time PM per year or as per Manufacturer's Standard]
4	Tenderer to provide and attach the scope of work for 3 years PM service post warranty

5	**END USER TRAINNING**
REF. NO.	**DESCRIPTION**
1	Inclusive **of clinical application training** for all radiologists for at least seven (7) working days on-site for all the operation and applications offered with the system **by Manufacturer's Application Specialist** which includes but not limited to:
1.1	Basic user operation, including image transfers.
1.2	Application training for the use of the various applications provided with the system.
1.3	Basic maintenance, including troubleshooting
2	**Training certificate must be provided by manufacturer or tenderer after completion of training sessions.**
3	On-site **follow up application training by application specialist after three (3) months** of clinical use to ensure the system is fully optimised.
4	Two (2) sets of User/Operation Manual in English
5	Two (2) sets of Training Manual in English
6	Introductory **Technical Training** to Biomedical Engineers and Technicians at BME RIPASH Office by competent Tenderer's Engineer/Technicians that includes but not limited to:
6.1	Troubleshooting and basic corrective maintenance
6.2	Handling and basic inspection maintenance

6	**INTERNATIONAL STANDARDS**
REF. NO.	**DESCRIPTION**
	Equipment model offered must at least be in compliance and approved with four (4) of the following standards or better: (Please provide the documentation/certification to support this compliance)
1	European Union (CE MARK)
2	Food and Drug Administration (FDA) USA
3	International Electrotechnical Commission (IEC) 60601
4	International Electrotechnical Commission (IEC) 62304
5	International Organization for Standardization (ISO) 14971
6	International Organization for Standardization (ISO) 13485
7	International Organization for Standardization (ISO) 10993

7	**DEMO UNIT**
REF. NO.	**DESCRIPTION**
1	Tenderer to arrange a demo unit of the proposed system to be use for at least one to two (2) weeks – in Radiology Department, RIPASH. Please provide details of arranged demo unit

ITEM 2	**BREAST IMAGING ULTRASOUND SYSTEM**
1	**SYSTEM ARHITECTURE**
REF. NO.	**DESCRIPTION**
1	Two (2) units of cart-based ultrasound (US) system.
2	**Configured specifically for breast and small parts imaging.**
3	The system is fully digital, compact, lightweight and cart-based design
4	Comes with independent steer and central locking wheels.
5	Comes with front and rear handles.
6	Has at least three (3) active transducer ports and one (1) parking probe port.
7	Has alphanumeric soft keys physical keyboard with easy access scans controls and facility to sanitise the system's keyboard to avoid cross contamination.
8	Has trackball for moving cursor
9	Inclusive of two (2) gel bottle holders.
10	Inclusive of one (1) unit of integrated gel warmer.
11	Has integrated cable management.
12	System storage: integrated SSD or HDD or both.
13	System storage: at least 1.5TB in total
14	Operating system: Window 10 or latest
15	Operating system: install on SSD
16	Has cybersecurity program to protect system
17	Power: able to operate on AC and on battery for at least 60 minutes or better
18	Battery: Self charging and has low-battery indicator
19	External data interface such as integrated DVD-RW drive, USB or its equivalent to enable external images transfer manually.
20	Capable to compare images from previous study.
21	Multiple preloaded application pre-sets available.
22	Control Monitor/Touch Panel Type: Touchscreen colour display.
23	Control Monitor/Touch Panel Size: at least 9 inches or better
24	Control Monitor/Touch Panel has back-lighting
25	Display Viewing Monitor Type: LCD technology or better
26	Display Viewing Monitor Size: at least 22" or better

ITEM 2	BREAST IMAGING ULTRASOUND SYSTEM
1	**SYSTEM ARHITECTURE**
REF. NO.	**DESCRIPTION**
27	Display Viewing Monitor Resolution: Full HD (1920 x 1080) or better
28	Display Viewing Monitor has adjustable arm: can adjust tilt, swivel and height.
29	Display Viewing Monitor has adjustable contrast and brightness
30	Display Viewing Monitor can be fold down and locked for transportation.
31	Labelling and markings shall be clear legible and durable. (Durable to withstand routine cleaning)
32	Can be fold down and locked for transportation.
33	**OPERATING MODES** The proposed system must include but not limited to the following operating modes:
33.1	Brightness-mode (B) for fundamental imaging mode for anatomical visualization.
33.2	Motion-mode (M) for motion analysis.
33.3	Trapezoidal mode for extended field of view for linear probes.
33.4	Pulsed wave (PW) mode for assessment of blood flow velocities
33.5	Continuous wave (CW) doppler mode for analysing high-velocity blood flow
33.6	Colour flow (CF) mode for mapping blood flow direction and velocity.
33.7	Power doppler imaging (PDI) mode for detecting low-velocity blood flow.
33.8	Contrast and tissue harmonic imaging for enhancing imaging for vascular studies and for clearer visualization of structures.
33.9	Spatial compounding for improving image quality by combining multiple beam angles.
33.10	Extended and convex field of view for enhancing visualization for larger areas during scanning
33.11	Speckle reduction imaging for reducing noises for clearer images
33.12	Automatic image optimisation for B-mode and doppler.
33.13	Adjustment of focal zone, gain, TGC, dynamic range, edge enhancement, gamma correction.
33.14	Frequency tuning for probes to adjust the frequency range on all transducers.
33.15	Operator controlled multiple and adjustable focal zones.
33.16	Real-time pan zoom capability
33.17	Tools for labelling and anatomical markers for image annotation
33.18	Customizable user defined pre-sets for variety of clinical applications.
33.19	2D cine memory and M-mode scroll memory.

ITEM 2	BREAST IMAGING ULTRASOUND SYSTEM
1	**SYSTEM ARHITECTURE**
REF. NO.	**DESCRIPTION**
33.20	Cine loop facility up to one minute at 25 frames per second (fps).
33.21	Fast random-access image review.
33.22	Ability to apply wide variety of image processing after the examination.
33.23	Full size and split-screen display.
33.24	Support the following simultaneous display capability: B/PW
33.25	Support the following simultaneous display capability: B/CF
33.26	Support the following simultaneous display capability: B/spatial compounding
33.27	Support the following simultaneous display capability: B/PDI
33.28	Support the following simultaneous display capability: B/M
33.29	Multi-image split-screen display capability with combination such as: Live and frozen image comparisons
33.30	Multi-image split-screen display capability with combination such as: B or spatial compounding and B or spatial compounding
33.31	Multi-image split-screen display capability with combination such as: B or spatial compounding and CF
33.32	Multi-image split-screen display capability with combination such as: B or spatial compounding and PDI
33.33	Multi-image split-screen display capability with combination such as: PW/M
34	**MEASUREMENT AND CALCULATION PACKAGES** The proposed system shall include the following:
34.1	Basic measurements such as: distance (four points), angle (two points), calculation of diameter, area, circumference, calculation of volume by height/width/length, planimetry, automatic planimetry and empirical method.
34.2	Automated lesion analysis tools: auto lesion outline, volume calculation, BI-RADS Assistant.
34.3	Real-time automatic doppler and vascular calculations and waveform indices.
34.4	Elastography Measurements:
34.4.1	Shear wave elastography (SWE) measurement for breast stiffness in both m/s and kPa with automated interquartile range (IQR) and median value.
34.4.2	Strain elastography (SE) to evaluate stiffness (elasticity) of breast tissue measure tissue deformation in response to compression and provide a color-coded or greyscale map to represent the stiffness.
34.5	Biopsy and interventional measurement tools such as needle paths, visibility, distance-to-target measurement, localisation and marking.
34.6	Inclusive of breast productivity package or breast-specific lesion measurements such as aspect ratio and tumour-to-nipple distance along with tools for evaluating breast productivity.
34.7	Inclusive of automated carotid intima-media thickness (CIMT) measurement tools.
34.8	Support panoramic imaging up to 60cm and curved imaging up to 360^0

ITEM 2	BREAST IMAGING ULTRASOUND SYSTEM
1	**SYSTEM ARHITECTURE**
REF. NO.	**DESCRIPTION**
35	**NETWORKING, CONNECTIVITY AND PACS INTEGRATION**
35.1	Must fully support and comply to DICOM 3.0 standards, including: 1. DICOM Image Storage, 2. DICOM Modality Worklist (MWL), 3. DICOM Query/Retrieve (Q/R) and 4. DICOM Structured Reporting (SR)
35.2	Must support Modality Performed Procedure Step (MPPS)
35.4	Allow bidirectional data exchange for seamless workflow.
35.5	Image must be able to store as DICOM and PC format
35.6	System must have wireless connectivity and ethernet RJ45
35.7	System must be HL7 ready and activated
35.8	The systems proposed shall be integrated and connected to Radiology PACS (RPACS) therefore ALL licenses for integration with PACS should be included. Tenderer to include the cost of PACS integration quoted from PACS vendor. Please refer to PACS vendor for information on PACS integration requirement. Tenderer may contact the quotation of PACS integration for this project directly to the MOH's PACS vendor or through the Healthcare Technology Department, Ministry of Health

2	TRANSDUCERS
REF. NO.	**DESCRIPTION**
	The following transducers shall be included for each of the two breast imaging ultrasound systems:
1	Two (2) units of **high frequency linear** transducer **for vascular, small parts, breast and musculoskeletal.** (Tenderer to state the frequency.)
2	Two (2) units of broadband curved array transducer **for general purpose ultrasound imaging.** (Tenderer to state the frequency.)
3	Two (2) units of linear transducer **for breast applications.** (Tenderer to state the frequency.)
4	**All transducers supplied must have a warranty period of at least one (1) year or better and comes with the necessary probe cover (if applicable)**

3	DELIVERY AND INSTALLATION SITES
REF. NO.	**DESCRIPTION**
	Distribution for delivery, installation, testing and commissioning sites are as follows:
1	Two (2) units to Breast Imaging Centre, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.

4	**WARRANTY AND 3 YEARS POST WARRANTY PREVENTIVE MAINTENANCE (PM)**
REF. NO.	**DESCRIPTION**
1	Tenderer to include warranty period of **at least two (2) years**
2	Tenderers to **ACKNOWLEDGE** the Warranty Undertaking Form in Section 4 stating the terms of warranty provided for the equipment in the tender for the period of two years. This includes but not limited to:
2.1	Scope of Warranty
2.2	Two time Planned Preventive Maintenance during warranty [Manufacturer's Standard]
3	Tenderer to provide additional 3 years Preventive Maintenance service post warranty [At least One Time PM per year or as per Manufacturer's Standard]
4	Tenderer to provide and attach the scope of work for 3 years PM service post warranty

5	**END USER TRAINNING**
REF. NO.	**DESCRIPTION**
1	Inclusive **of clinical application training** for all radiologists for at least seven (7) working days on-site for all the operation and applications offered with the system **by Manufacturer's Application Specialist** which includes but not limited to:
1.1	Basic user operation, including image transfers.
1.2	Application training for the use of the various applications provided with the system.
1.3	Basic maintenance, including troubleshooting
2	**Training certificate must be provided by manufacturer or tenderer after completion of training sessions.**
3	On-site **follow up application training by application specialist after three (3) months** of clinical use to ensure the system is fully optimised.
4	Two (2) sets of User/Operation Manual in English
5	Two (2) sets of Training Manual in English
6	Introductory **Technical Training** to Biomedical Engineers and Technicians at BME RIPASH Office by competent Tenderer's Engineer/Technicians that includes but not limited to:
6.1	Troubleshooting and basic corrective maintenance
6.2	Handling and basic inspection maintenance

6	**INTERNATIONAL STANDARDS**
REF. NO.	**DESCRIPTION**
	Equipment model offered must at least be in compliance and approved with four (4) of the following standards or better: (Please provide the documentation/certification to support this compliance)
1	European Union (CE MARK)
2	Food and Drug Administration (FDA) USA
3	International Electrotechnical Commission (IEC) 60601
4	International Electrotechnical Commission (IEC) 62304
5	International Organization for Standardization (ISO) 14971
6	International Organization for Standardization (ISO) 13485
7	International Organization for Standardization (ISO) 10993

7	**DEMO UNIT**
REF. NO.	**DESCRIPTION**
1	Tenderer to arrange a demo unit of the proposed system to be use for at least one to two (2) weeks – in Radiology Department, RIPASH.

ITEM 3	MID-END ULTRASOUND SYSTEM
1	SYSTEM ARHITECTURE
REF. NO.	DESCRIPTION
1	One (1) unit of cart-based ultrasound (US) system.
2	**Configured specifically for angiography imaging**
3	The system is fully digital, compact, lightweight and easy to move.
4	Comes with independent steer and central locking wheels.
5	Comes with front and rear handles.
6	Has at least two (2) active transducer ports and one (1) parking probe port.
7	Has alphanumeric soft keys physical keyboard with easy access scans controls and facility to sanitise the system's keyboard to avoid cross contamination.
8	Has trackball for moving cursor
9	Inclusive of two (2) gel bottle holders.
10	Inclusive of one (1) unit of integrated gel warmer.
11	Has integrated cable management.
12	System storage: integrated SSD or HDD or both.
13	System storage: at least 1.5TB in total
14	Operating system: Window 10 or latest
15	Operating system: install on SSD
16	Has cybersecurity program to protect system
17	Power: able to operate on AC and on battery for at least 60 minutes or better
18	Battery: Self charging and has low-battery indicator
19	External data interface such as integrated DVD-RW drive, USB or its equivalent to enable external images transfer manually.
20	Capable to compare images from previous study.
21	Multiple preloaded application pre-sets available.
22	Control Monitor/Touch Panel Type: Touchscreen colour display.
23	Control Monitor/Touch Panel Size: at least 9 inches or better
24	Control Monitor/Touch Panel has back-lighting
25	Display Viewing Monitor Type: LCD technology or better
26	Display Viewing Monitor Size: at least 21" or better

ITEM 3	MID-END ULTRASOUND SYSTEM
1	SYSTEM ARHITECTURE
REF. NO.	DESCRIPTION
27	Display Viewing Monitor Resolution: Full HD (1920 x 1080) or better
28	Display Viewing Monitor has adjustable arm: can adjust tilt, swivel and height.
29	Display Viewing Monitor has adjustable contrast and brightness
30	Display Viewing Monitor can be fold down and locked for transportation.
31	Labelling and markings shall be clear legible and durable. (Durable to withstand routine cleaning)
32	Can be fold down and locked for transportation.
33	**OPERATING MODES** The proposed system must include but not limited to the following operating modes:
33.1	Brightness-mode (B) for fundamental imaging mode for anatomical visualization.
33.2	Motion-mode (M) for motion analysis.
33.3	Trapezoidal mode for extended field of view for linear probes.
33.4	Pulsed wave (PW) mode for assessment of blood flow velocities
33.5	Continuous wave (CW) doppler mode for analysing high-velocity blood flow
33.6	Colour flow (CF) mode for mapping blood flow direction and velocity.
33.7	Power doppler imaging (PDI) mode for detecting low-velocity blood flow.
33.8	Contrast and tissue harmonic imaging for enhancing imaging for vascular studies and for clearer visualization of structures.
33.9	Spatial compounding for improving image quality by combining multiple beam angles.
33.10	Extended and convex field of view for enhancing visualization for larger areas during scanning
33.11	Speckle reduction imaging for reducing noises for clearer images
33.12	Automatic image optimisation for B-mode and doppler.
33.14	Adjustment of focal zone, gain, TGC, dynamic range, edge enhancement, gamma correction.
33.15	Frequency tuning for probes to adjust the frequency range on all transducers.
33.16	Operator controlled multiple and adjustable focal zones.
33.17	Real-time pan zoom capability
33.18	Tools for labelling and anatomical markers for image annotation
33.19	Customizable user defined pre-sets for variety of clinical applications.

ITEM 3	MID-END ULTRASOUND SYSTEM
1	SYSTEM ARHITECTURE
REF. NO.	DESCRIPTION
33.20	2D cine memory and M-mode scroll memory.
33.21	Cine loop facility up to one minute at 25 frames per second (fps).
33.22	Fast random-access image review.
33.23	Ability to apply wide variety of image processing after the examination.
33.24	Full size and split-screen display.
33.25	Support the following simultaneous display capability: B/PW
33.26	Support the following simultaneous display capability: B/CF
33.27	Support the following simultaneous display capability: B/spatial compounding
33.28	Support the following simultaneous display capability: B/PDI
33.29	Support the following simultaneous display capability: B/M
33.30	Multi-image split-screen display capability with combination such as: Live and frozen image comparisons
33.31	Multi-image split-screen display capability with combination such as: B or spatial compounding and B or spatial compounding
33.32	Multi-image split-screen display capability with combination such as: B or spatial compounding and CF
33.33	Multi-image split-screen display capability with combination such as: B or spatial compounding and PDI
33.34	Multi-image split-screen display capability with combination such as: PW/M
34	**MEASUREMENT AND CALCULATION PACKAGES** The proposed system shall include the following:
34.1	Basic measurements such as: distance (four points), angle (two points), calculation of diameter, area, circumference, calculation of volume by height/width/length, planimetry, automatic planimetry and empirical method.
34.2	Automated measurement packages including reports, urology, renal, cardiac (M-mode and B-mode), obstetrics and gynaecological and vascular.
34.3	Real-time automatic doppler calculations and waveform indices.
34.4	Support panoramic imaging up to 60cm and curved imaging up to 360 degrees
35	**NETWORKING, CONNECTIVITY AND PACS INTEGRATION**
35.1	Must fully support and comply to DICOM 3.0 standards, including: 1. DICOM Image Storage, 2. DICOM Modality Worklist (MWL), 3. DICOM Query/Retrieve (Q/R) and 4. DICOM Structured Reporting (SR)
35.2	Must support Modality Performed Procedure Step (MPPS)
35.3	Allow bidirectional data exchange for seamless workflow.

ITEM 3	MID-END ULTRASOUND SYSTEM
1	SYSTEM ARHITECTURE
REF. NO.	DESCRIPTION
35.4	Image must be able to store as DICOM and PC format
35.5	System must have wireless connectivity and ethernet RJ45
35.6	System must be HL7 ready and activated
36.7	The systems proposed shall be integrated and connected to Radiology PACS (RPACS) therefore ALL licenses for integration with PACS should be included. Tenderer to include the cost of PACS integration quoted from PACS vendor. Please refer to PACS vendor for information on PACS integration requirement. Tenderer may contact the quotation of PACS integration for this project directly to the MOH's PACS vendor or through the Healthcare Technology Department, Ministry of Health

2	**TRANSDUCERS**
REF. NO.	**DESCRIPTION**
	The following transducers shall be included for the mid-end ultrasound system:
1	One (1) units of high frequency linear transducer **for vascular, small parts, breast and musculoskeletal.** (Tenderer to state the frequency.)
2	One (1) units of broadband curved array transducer **for general purpose abdominal and obstetric.** (Tenderer to state the frequency.)
3	**All transducers supplied must have a warranty period of at least one (1) year or better and comes with the necessary probe cover (if applicable)**

3	**DELIVERY AND INSTALLATION SITES**
REF. NO.	**DESCRIPTION**
	Distribution for delivery, installation, testing and commissioning sites are as follows:
1	One (1) unit for Angiography Room, Radiology Department, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.

4	**WARRANTY AND 3 YEARS POST WARRANTY PREVENTIVE MAINTENANCE (PM)**
REF. NO.	**DESCRIPTION**
1	Tenderer to include warranty period of **at least two (2) years**
2	Tenderers to **ACKNOWLEDGE** the Warranty Undertaking Form in Section 4 stating the terms of warranty provided for the equipment in the tender for the period of two years. This includes but not limited to:
2.1	Scope of Warranty
2.2	Two time Planned Preventive Maintenance during warranty [Manufacturer's Standard]
3	Tenderer to provide additional 3 years Preventive Maintenance service post warranty [At least One Time PM per year or as per Manufacturer's Standard]
4	Tenderer to provide and attach the scope of work for 3 years PM service post warranty

5	**END USER TRAINNING**
REF. NO.	**DESCRIPTION**
1	Inclusive **of clinical application training** for all radiologists for at least seven (7) working days on-site for all the operation and applications offered with the system **by Manufacturer's Application Specialist** which includes but not limited to:
1.1	Basic user operation, including image transfers.
1.2	Application training for the use of the various applications provided with the system.
1.3	Basic maintenance, including troubleshooting
2	**Training certificate must be provided by manufacturer or tenderer after completion of training sessions.**
3	On-site **follow up application training by application specialist after three (3) months** of clinical use to ensure the system is fully optimised.
4	Two (2) sets of User/Operation Manual in English

5	**END USER TRAINNING**
REF. NO.	**DESCRIPTION**
5	Two (2) sets of Training Manual in English
6	Introductory **Technical Training** to Biomedical Engineers and Technicians at BME RIPASH Office by competent Tenderer's Engineer/Technicians that includes but not limited to:
6.1	Troubleshooting and basic corrective maintenance
6.2	Handling and basic inspection maintenance

6	**INTERNATIONAL STANDARDS**
REF. NO.	**DESCRIPTION**
	Equipment model offered must at least be in compliance and approved with four (4) of the following standards or better: (Please provide the documentation/certification to support this compliance)
1	European Union (CE MARK)
2	Food and Drug Administration (FDA) USA
3	International Electrotechnical Commission (IEC) 60601
4	International Electrotechnical Commission (IEC) 62304
5	International Organization for Standardization (ISO) 14971
6	International Organization for Standardization (ISO) 13485
7	International Organization for Standardization (ISO) 10993

7	**DEMO UNIT**
REF. NO.	**DESCRIPTION**
1	Tenderer to arrange a demo unit of the proposed system to be use for at least one to two (2) weeks – in Radiology Department, RIPASH.

ITEM 4	O&G ULTRASOUND SYSTEM
1	**SYSTEM ARHITECTURE**
REF. NO.	**DESCRIPTION**
1	Real-time image optimization and transducer technology migration
2	Imaging frequency range: 1–20 MHz
3	At least 4 active transducer ports with electronic selection
4	Integrated gel warmer with temperature adjustment
5	Transducer storage holder for minimum 7 probes & utility storage baskets with gel holder
6	Integrated cable management with multiple cable hooks, front/back handles, and lockable wheels
7	Customizable imaging modes and parameters
8	**IMAGING CAPABILITIES**
8.1	Imaging modes: B-mode, M-mode, Color & Power Doppler, Pulsed Wave & Continuous Wave Doppler
8.2	Adjustable field of view size and position, 2D beam steering angle ≥ ±30°
8.3	Parenchymal image harmonization for reduced noise and improved sharpness
8.4	Speckle noise reduction with ≥ 3 levels via dynamic tissue contrast enhancement
9	**CONTROL PANEL & DISPLAY**
9.1	Height-adjustable control panel with ±90° swivel articulation
9.2	Tiltable touchscreen interface with USB ports
9.3	Conventional keyboard and laser optical trackball with backlighting
9.4	In-Plane Switching monitor
9.5	Display size: ≥ 21 inches
9.6	Display resolution ≥ 1920×1080
9.7	Digital calipers: minimum 4 active
9.8	Zoom and pan on both real-time and frozen images
10	**POWER, SOFTWARE & STORAGE**
10.1	Mains supply: 100–240V AC, 50/60 Hz
10.2	Battery integrated
10.3	Battery operation: ≥ 70 minutes scan time with status display
10.4	Operating System: Windows 10 or later with antivirus installed
10.5	SSD ≥ 500 GB with automatic disk management

ITEM 4	O&G ULTRASOUND SYSTEM
1	**SYSTEM ARHITECTURE**
REF. NO.	**DESCRIPTION**
10.6	Cine memory: not less than 500 frames
11	**NETWORKING, CONNECTIVITY AND PACS INTEGRATION**
11.1	Must fully support and comply to DICOM 3.0 standards, including: 1. DICOM Image Storage, 2. DICOM Modality Worklist (MWL), 3. DICOM Query/Retrieve (Q/R) and 4. DICOM Structured Reporting (SR)
11.2	Must support Modality Performed Procedure Step (MPPS)
11.3	Allow bidirectional data exchange for seamless workflow.
11.4	Image must be able to store as DICOM and PC format
11.5	System must have wireless connectivity and ethernet RJ45
11.6	System must be HL7 ready and activated
11.7	The systems proposed shall be integrated and connected to Radiology PACS (RPACS) therefore ALL licenses for integration with PACS should be included. Tenderer to include the cost of PACS integration quoted from PACS vendor. Please refer to PACS vendor for information on PACS integration requirement. Tenderer may contact the quotation of PACS integration for this project directly to the MOH's PACS vendor or through the Healthcare Technology Department, Ministry of Health

1	**TRANSDUCERS**
REF. NO.	**DESCRIPTION**
	The following transducers shall be included for the O&G ultrasound system
1	One (1) unit of multi-frequency convex probe ▪ Penetration ≥ 350 mm and Field of View ≥ 70^0 (Tenderer to state the Model, Penetration, FOV and Frequency)
2	One (1) unit of Endo Cavity Transducer ▪ penetration ≥ 140 mm and Field of View ≥ 220^0 (Tenderer to state the Model, Penetration, FOV and Frequency)
3	One (1) unit of 4D Volume Transducer ▪ penetration ≥ 300 mm and Field of View ≥ 65^0 (Tenderer to state the Model, Penetration, FOV and Frequency)
4	One (1) unit of 4D Endo Cavity Volume Transducer ▪ penetration ≥ 160 mm and Field of View ≥ 145^0 (Tenderer to state the Model, Penetration, FOV and Frequency)
5	All transducers supplied must have a warranty period of at least one (1) year or better and comes with the necessary probe cover (if applicable)

2	**DELIVERY AND INSTALLATION SITES**
REF. NO.	**DESCRIPTION**
	Distribution for delivery, installation, testing and commissioning sites are as follows:
1	One (1) unit for Pengkalan Batu Health Centre, MCH, Brunei Muara.
2	One (1) unit for Sg Kelugos Health Centre, MCH, Tutong.
3	One (1) unit for Telisai Health Centre, MCH, Tutong.

3	**WARRANTY AND 3 YEARS POST WARRANTY PREVENTIVE MAINTENANCE (PM**
REF. NO.	**DESCRIPTION**
1	Tenderer to include warranty period of **at least two (2) years**
2	Tenderers to **ACKNOWLEDGE** the Warranty Undertaking Form in Section 4 stating the terms of warranty provided for the equipment in the tender for the period of two years. This includes but not limited to:
2.1	Scope of Warranty
2.2	Two time Planned Preventive Maintenance during warranty [Manufacturer's Standard]
3	Tenderer to provide additional 3 years Preventive Maintenance service post warranty [At least One Time PM per year or as per Manufacturer's Standard]
4	Tenderer to provide and attach the scope of work for 3 years PM service post warranty

3	**END USER TRAINNING**
REF. NO.	**DESCRIPTION**
1	Inclusive **of clinical application training** for all radiologists for at least seven (7) working days on-site for all the operation and applications offered with the system **by Manufacturer's Application Specialist** which includes but not limited to:
1.1	Basic user operation, including image transfers.
1.2	Application training for the use of the various applications provided with the system.
1.3	Basic maintenance, including troubleshooting
2	**Training certificate must be provided by manufacturer or tenderer after completion of training sessions.**
3	On-site **follow up application training by application specialist after three (3) months** of clinical use to ensure the system is fully optimised.
4	Two (2) sets of User/Operation Manual in English
5	Two (2) sets of Training Manual in English
6	Introductory **Technical Training** to Biomedical Engineers and Technicians at BME RIPASH Office by competent Tenderer's Engineer/Technicians that includes but not limited to:
6.1	Troubleshooting and basic corrective maintenance
6.2	Handling and basic inspection maintenance

4	**INTERNATIONAL STANDARDS**
REF. NO.	**DESCRIPTION**
	Equipment model offered must at least be in compliance and approved with four (4) of the following standards or better: (Please provide the documentation/certification to support this compliance)
1	European Union (CE MARK)
2	Food and Drug Administration (FDA) USA
3	International Electrotechnical Commission (IEC) 60601
4	International Electrotechnical Commission (IEC) 62304
5	International Organization for Standardization (ISO) 14971
6	International Organization for Standardization (ISO) 13485
7	International Organization for Standardization (ISO) 10993

ITEM 5	ULTRASOUND EXAMINATION COUCH AND CHAIR
1	**SYSTEM ARHITECTURE**
REF. NO.	**DESCRIPTION**
1	Six (6) units of ultrasound examination couch and Ultrasound operator chair
2	Ultrasound Examination Couch: Electric height adjustable type
3	Ultrasound Examination Couch: Adjustable back and leg rest.
4	Ultrasound Examination Couch: Complete with disposable paper dispenser mounts to the head end of the couch.
5	Ultrasound Examination Couch: Suitable dimension for dedicated room (Please refer to each location)
6	Ultrasound Chair: Height adjustable ultrasound chair (saddle type) for the operators with wheels and adjustable back

2	DELIVERY AND INSTALLATION SITES
REF. NO.	**DESCRIPTION**
	Distribution for delivery, installation, testing and commissioning sites are as follows:
1	One (1) unit for Main ultrasound room, Radiology Department, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.
2	One (1) unit for Radiology Unit, Pengiran Muda Mahkota Pengiran Muda Haji Al-Muhtadee Billah (PMMPMHAMB) Hospital, Tutong
3	One (1) unit for Radiology Unit, Suri Seri Begawan (SSB) Hospital, Kuala Belait
4	One (1) unit for Angio Room, Radiology Department, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.
5	Two (2) units for Breast Imaging Centre, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.

3	WARRANTY
REF. NO.	**DESCRIPTION**
1	Tenderer to include warranty period of **at least two (2) years**
2	Tenderers to **ACKNOWLEDGE** the Warranty Undertaking Form in Section 4 stating the terms and scope of warranty provided for the equipment in the tender for the period of two years.

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INVITATION TO TENDER
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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

TERMS AND CONDITIONS		
NO.	**TERMS AND CONDITIONS**	**VENDOR'S OFFER**
1	Tenderer must be registered with the Ministry of Health.	
2	**TENDER FORM should be filled** completely including the **USER REQUIREMENT FORM** (if available). Submission of incomplete form **MAY** cause **DISQUALIFICATION OF TENDER.**	
3	Each tenderer is allowed to quote **ONE BRAND/ MODEL WITH ONE PRICE ONLY** for each item. Submission of more than one brand/model and price will cause **DISQUALIFICATION OF TENDER.**	
4	Tenderers are **required to submit individual proposal booklets for each item listed**. Each item shall be treated as a standalone submission	
5	All consumables supplied throughout this tender shall have a minimum expiry date of **twelve (12) months / on delivery** (if applicable). Should the consumables be urgently needed, provision of consumables with expiry date of less than twelve (12) months should be first agreed by the User before delivery is made (if applicable).	
6	Brochures / catalogues should be submitted / attached with tender document.	
7	Any room renovation which may be required, it is mandatory to conduct site visit (if applicable)	
8	Samples should be submitted together with tender or within fourteen (14 days) of the tender closing dates (if applicable).	

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TERMS AND CONDITIONS		
NO.	**TERMS AND CONDITIONS**	**VENDOR'S OFFER**
9	DELIVERY PERIOD: (Please state) Not More Than **90 days** upon confirmation	
10	PRICE VALIDITY: The quotation shall remain valid for **12 MONTHS** from the final date for the submission of the quotation and no supplier may withdraw his/her quotation within that period. The Government reserves the right to extend this period if deemed necessary provided that such extension to the quotation validity period shall have written consent of the supplier(s).	
11	The equipment supplied must be **newly manufactured**, unused, and in its original, sealed packaging. The equipment must not be previously owned, refurbished, or reconditioned in any form.	
12	The vendor is required to provide **proof of manufacture date** and official certification from the original manufacturer confirming the equipment is **new**.	
13	To provide justification for the price increase of a product previously supplied to the Ministry of Health by the same supplier/distributor	

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SCOPE OF WORK AND SUMMARY OF PRICES					
This tender is for the supply of Ultrasound machines under a non-clustering approach for the following items:		**YES**	**NO**	**UNIT PRICE**	**TOTAL PRICE**
Description	**Quantity**				
Item 1: High-End Ultrasound System	**3 Units**			BND$	BND$
Item 2: Breast Imaging Ultrasound System	**2 Units**			BND$	BND$
Item 3: Mid-End Ultrasound System	**1 Unit**			BND$	BND$
Item 4: O&G Ultrasound System	**3 Units**			BND$	BND$
Item 5: Ultrasound Examination Couch and Chair	**6 Units**			BND$	BND$

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 1: HIGH-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	Three (3) units of high-end, cart-based ultrasound (US) system.			
2	High-end ultrasound system with advanced imaging features such as high-resolution imaging, needle enhancement, elastography, AI-assisted imaging analysis. Support for contrast agents with specific pre-sets and quantification tools.			
3	Advanced clinical applications: For comprehensive radiology studies for both adult and paediatric patients including abdominal, vascular, obstetrics, gynaecology, small parts, transcranial, paediatric and neonatal, musculoskeletal, urological and cardiac applications.			
4	System must be able to provide exceptional clarity, resolution and depth of penetration.			
5	The system is fully digital, compact, lightweight and easy to move.			
6	Comes with independent steer and central locking wheels.			
7	Comes with front and rear handles.			
8	Has at least four (4) active transducer ports and one (1) parking probe port.			
9	Has alphanumeric soft keys physical keyboard with easy access scans controls and facility to sanitise the system's keyboard to avoid cross contamination.			
10	Has trackball for moving cursor			

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ITEM 1: HIGH-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
11	Inclusive of two (2) gel bottle holders.			
12	Inclusive of one (1) unit of integrated gel warmer.			
13	Has integrated cable management.			
14	System storage: integrated SSD or HDD or both.			
15	System storage: at least 1.5TB in total			
16	Operating system: Window 10 or latest			
17	Operating system: install on SSD			
18	Has cybersecurity program to protect system			
19	Power: able to operate on AC and on battery for at least 60 minutes or better			
20	Battery: Self charging and has low-battery indicator			
21	External data interface such as integrated DVD-RW drive, USB or its equivalent to enable external images transfer manually.			

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ITEM 1: HIGH-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
22	Capable to compare images from previous study.			
23	Multiple preloaded application pre-sets available.			
24	Control Monitor/Touch Panel Type: Touchscreen colour display.			
25	Control Monitor/Touch Panel Size: at least 9 inches or better			
26	Control Monitor/Touch Panel has back-lighting			
27	Display Viewing Monitor Type: LCD technology or better			
28	Display Viewing Monitor Size: at least 22” or better			
29	Display Viewing Monitor Resolution: Full HD (1920 x 1080) or better			
30	Display Viewing Monitor has adjustable arm: can adjust tilt, swivel and height.			
31	Display Viewing Monitor has adjustable contrast and brightness			
32	Display Viewing Monitor can be fold down and locked for transportation.			

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ITEM 1: HIGH-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
33	Labelling and markings shall be clear legible and durable. (Durable to withstand routine cleaning)			
34	**OPERATING MODES** The proposed system must include but not limited to the following operating modes:			
34.1	Brightness-mode (B) for fundamental imaging mode for anatomical visualization.			
34.2	Motion-mode (M) for motion analysis.			
34.3	Trapezoidal mode for extended field of view for linear probes.			
34.4	Pulsed wave (PW) mode for assessment of blood flow velocities			
34.5	Continuous wave (CW) doppler mode for analysing high-velocity blood flow			
34.6	Colour flow (CF) mode for mapping blood flow direction and velocity.			
34.7	Power doppler imaging (PDI) mode for detecting low-velocity blood flow.			
34.8	Contrast and tissue harmonic imaging for enhancing imaging for vascular studies and for clearer visualization of structures.			
34.9	Spatial compounding for improving image quality by combining multiple beam angles.			

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ITEM 1: HIGH-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
34.10	Extended and convex field of view for enhancing visualization for larger areas during scanning			
34.10	Speckle reduction imaging for reducing noises for clearer images			
34.11	Automatic image optimisation for B-mode and doppler.			
34.12	2D shear wave elastography for quantitative assessment of liver stiffness for fibrosis and Ultrasound-Derived Fat Fraction (UDFF) feature to measure the amount of fat within the liver tissues.			
34.13	Adjustment of focal zone, gain, TGC, dynamic range, edge enhancement, gamma correction.			
34.14	Frequency tuning for probes to adjust the frequency range on all transducers.			
34.15	Operator controlled multiple and adjustable focal zones.			
34.16	Real-time pan zoom capability			
34.17	Tools for labelling and anatomical markers for image annotation			
34.18	Customizable user defined pre-sets for variety of clinical applications.			
34.19	2D cine memory and M-mode scroll memory.			

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ITEM 1: HIGH-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
34.20	Cine loop facility up to one minute at 25 frames per second (fps).			
34.21	Fast random-access image review.			
34.22	Ability to apply wide variety of image processing after the examination.			
34.23	Full size and split-screen display.			
34.24	Support the following simultaneous display capability: B/PW			
34.25	Support the following simultaneous display capability: B/CF			
34.26	Support the following simultaneous display capability: B/spatial compounding			
34.27	Support the following simultaneous display capability: B/PDI			
34.28	Support the following simultaneous display capability: B/M			
34.30	Multi-image split-screen display capability with combination such as: Live and frozen image comparisons			
34.31	Multi-image split-screen display capability with combination such as: B or spatial compounding and B or spatial compounding			

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ITEM 1: HIGH-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
34.32	Multi-image split-screen display capability with combination such as: B or spatial compounding and CF			
34.33	Multi-image split-screen display capability with combination such as: B or spatial compounding and PDI			
34.34	Multi-image split-screen display capability with combination such as: PW/M			
35	**MEASUREMENT AND CALCULATION PACKAGES** The proposed system shall include the following:			
35.1	Basic measurements tools such as: distance (four points), angle (two points), calculation of diameter, area, circumference, calculation of volume by height/width/length, planimetry, automatic planimetry and empirical method.			
35.2	Automated measurement packages including reports for abdominal, urology, renal, cardiac (M-mode and B-mode), obstetrics and gynaecological, vascular and blood flow, tissue elastography, musculoskeletal measurements, 3D/4D volume.			
35.3	Real-time automatic doppler calculations and waveform indices.			
35.4	Tools for hip dysplasia calculations including angle and joint measurements.			
35.5	Shear wave elastography measurement of liver stiffness in both m/s and kPa with automated interquartile range (IQR) and median value.			

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PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 1: HIGH-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
35.6	Inclusive of automatic foetal biometry tools measuring key foetal parameters like head circumference (HC), abdominal circumference (AC), femur length (FL) and biparietal diameter (BPD).			
35.7	Inclusive of automated carotid intima-media thickness (CIMT) measurement tools.			
35.8	Support panoramic imaging up to 60cm and curved imaging up to 360^{o}			
35.9	Inclusive of Shear wave elastography (SWE) and advanced strain imaging features for both quantitative and qualitative elastography and to measure tissue deformation in response to compression, ideal for small parts like breast and thyroid.			
35.10	Inclusive of **quantitative assessment of liver fat content using ultrasound or** ultrasound-derived fat fraction (UDFF).			
36	**NETWORKING, CONNECTIVITY AND PACS INTEGRATION**			
36.1	Must fully support and comply to DICOM 3.0 standards, including: 1. DICOM Image Storage, 2. DICOM Modality Worklist (MWL), 3. DICOM Query/Retrieve (Q/R) and 4. DICOM Structured Reporting (SR)			
36.2	Must support Modality Performed Procedure Step (MPPS)			
36.4	Allow bidirectional data exchange for seamless workflow.			
36.5	Image must be able to store as DICOM and PC format			

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To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 1: HIGH-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
36.6	System must have wireless connectivity and ethernet RJ45			
36.7	System must be HL7 ready and activated			
36.8	The systems proposed shall be integrated and connected to Radiology PACS (RPACS) therefore ALL licenses for integration with PACS should be included. Tenderer to include the cost of PACS integration quoted from PACS vendor. Please refer to PACS vendor for information on PACS integration requirement. Tenderer may contact the quotation of PACS integration for this project directly to the MOH's PACS vendor or through the Healthcare Technology Department, Ministry of Health			

SECTION 3

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

2	**TRANSDUCERS**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
	The following transducer shall be included for each of the three high end ultrasound system:			
1	Three (3) units of high frequency **linear** transducer **for vascular, small parts, breast and musculoskeletal.** (Tenderer to state the frequency.)			**Model:** **Frequency:**
2	Three (3) units of broadband **curved array** transducer **for general purpose abdominal and obstetric.** (Tenderer to state the frequency.)			**Model:** **Frequency:**
3	Three (3) units of broadband **phased array** transducer (micro-convex or sector) **for cardiac echo and paediatric transcranial ultrasound. (**Tenderer to state the frequency.)			**Model:** **Frequency:**
4	Three (3) units of broadband curved array transducer **for liver shear wave elastography** (applicable only if a separate probe from the above is required for this purpose)			**Model:** **Frequency:**
5	Three (3) units of linear array **hockey stick** transducer for **peripheral vascular, small parts and superficial structures. (**Tenderer to state the frequency.)			**Model:** **Frequency:**
6	One (1) unit of curved **intra-cavitary** transducer **for transvaginal obstetrics and gynaecology scan** for RIPASH Radiology. Tenderer to state the frequency.			**Model:** **Frequency:**
7	**All transducers supplied must have a warranty period of at least one (1) year or better and comes with the necessary probe cover (if applicable)**			

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

3	**DELIVERY AND INSTALLATION SITES**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		Y	**N**	
	Distribution for delivery, installation, testing and commissioning sites are as follows:			
1	One (1) unit for Main ultrasound room, Radiology Department, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.			
2	One (1) unit for Radiology Unit, Pengiran Muda Mahkota Pengiran Muda Haji Al-Muhtadee Billah (PMMPMHAMB) Hospital, Tutong			
3	One (1) unit for Radiology Unit, Suri Seri Begawan (SSB) Hospital, Kuala Belait			

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

4	**WARRANTY AND 3 YEARS POST WARRANTY PREVENTIVE MAINTENANCE (PM)**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		Y	**N**	
1	Tenderer to include warranty period of **at least two (2) years**			
2	Tenderers to **ACKNOWLEDGE** the Warranty Undertaking Form in Section 4 stating the terms of warranty provided for the equipment in the tender for the period of two years. This includes but not limited to:			
2.1	Scope of Warranty			
2.2	Two time Planned Preventive Maintenance during warranty [Manufacturer's Standard]			
3	Tenderer to provide additional 3 years Preventive Maintenance service post warranty [At least One Time PM per year or as per Manufacturer's Standard]			**3 YRS PM POST WARRANTY** COST PER UNIT PER YEAR: BND$
				NUMBER OF PM PER YEAR:
				TOTAL COST FOR 3 YEARS: BND$
4	Tenderer to provide and attach the scope of work for 3 years PM service post warranty			

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

5	**END USER TRAINNING**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		Y	**N**	
1	Inclusive **of clinical application training** for all radiologists for at least seven (7) working days on-site for all the operation and applications offered with the system **by Manufacturer's Application Specialist** which includes but not limited to:			
1.1	Basic user operation, including image transfers.			
1.2	Application training for the use of the various applications provided with the system.			
1.3	Basic maintenance, including troubleshooting			
2	**Training certificate must be provided by manufacturer or tenderer after completion of training sessions.**			
3	On-site **follow up application training by application specialist after three (3) months** of clinical use to ensure the system is fully optimised.			
4	Two (2) sets of User/Operation Manual in English			
5	Two (2) sets of Training Manual in English			
6	Introductory **Technical Training** to Biomedical Engineers and Technicians at BME RIPASH Office by competent Tenderer's Engineer/Technicians that includes but not limited to:			
6.1	Troubleshooting and basic corrective maintenance			
6.2	Handling and basic inspection maintenance			

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6	**INTERNATIONAL STANDARDS**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		Y	**N**	
	Equipment model offered must at least be in compliance and approved with four (4) of the following standards or better: (Please provide the documentation/certification to support this compliance)			
1	European Union (CE MARK)			
2	Food and Drug Administration (FDA) USA			
3	International Electrotechnical Commission (IEC) 60601			
4	International Electrotechnical Commission (IEC) 62304			
5	International Organization for Standardization (ISO) 14971			
6	International Organization for Standardization (ISO) 13485			
7	International Organization for Standardization (ISO) 10993			

7	**DEMO UNIT**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		Y	**N**	
1	Tenderer to arrange a demo unit of the proposed system to be use for at least one to two (2) weeks – in Radiology Department, RIPASH. Please provide details of arranged demo unit			

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INVITATION TO TENDER
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SECTION 2 – PRICE PROPOSAL	
UNIT PRICE: **BND$**	**TOTAL PRICE:** **BND$**

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SECTION 3 - PROCUREMENT AND TECHNICAL SPECIFICATION									
BRAND:					MODEL:				
COUNTRY OF ORIGIN:					UNIT PRICE (B$):				
WARRANTY PERIOD:					TOTAL PRICE (B$):				
YEAR INTRODUCED TO MARKET:					LAST COUNTRY SOLD TO:				
PRICE VALIDITY: [AT LEAST ONE (1) YEAR PRICE VALIDTY]					DELIVERY TIME:				
AUTHORIZED DISTRIBUTOR: (AUTHORIZED DISTRIBUTOR LETTER ATTACHED)					APPOINTED BRUNEI DISTRIBUTOR				
					PROCURE FROM OVERSEA AUTHORIZED DISTRIBUTOR	COMPANY NAME:			
						COMPANY ORIGIN:			
DETAILED BROCHURE INCLUDED		YES		NO	**☑ or specify where appropriate**				
USER AND SERVICE MANUALS:		YES		NO	Tenderers to acknowledge that they must provide at least TWO sets of USER AND SERVICE manuals when applying commissioning form. One Set for End User, One Set for BME. (Please provide hardcopy or softcopy)				
MAINS POWER SUPPLY:		220V-240V			BATTERY [ ] YES [ ] NO				
		50-60HZ			Type of Battery:		Rating:		
		OTHERS:				RECHARGEABLE		NON-RECHARGEABLE	
POWER ADAPTER/CHARGER OUTPUT RATING:					EQUIPMENT AMBIENT OPERATING TEMPERATURE RANGE:				
NUMBER OF TECHNICAL SUPPORT (ENGINEER/TECHNICIAN) Please provide training or certification for locals who is trained/certified		LOCAL					□ Trained / Certified □ Not yet trained on the product		
		OVERSEA (SPECIFY LOCATION)			NEAREST LOCATION:				
DIMENSIONS AND WEIGHT OF MAIN UNIT:					□ mm □ cm □ inch			□ Kilogram (Kg) □ Gram(g) □ Pound (lbs)	
EQUIPMENT WHOLE LIFE TIME SUPPORT:	The supplier shall ensure that spare parts for the equipment are available for a minimum of 8 years after installation, with the support period extending beyond the expected lifecycle of the equipment. No of years: _____ (Please specify)								

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SECTION 4 – WARRANTY UNDERTAKING FORM

Tenderer, on behalf of the manufacturer, acknowledged and agrees that when equipment is under the warranty period, must cover the scope of normal warranty below at no additional cost:

NORMAL WARRANTY

- Warrants the supplied medical equipment and its accessories to be in good condition, in working order and free from defects to the extend such equipment do not comply with specifications, under normal use for the warranty period. The scope of warranty covers to its maximum extent permitted by applicable law.
- During warranty, tenderer must rectify issues arise from any mechanical, technical or software faulty as soon as it is reported.
- **Exchange warranty**; Providing replacement units or OEM parts:
  A. Warranty against defects – Manufacturing defects or Equipment malfunction resulted from mechanical, electrical or software failure during Commissioning or within the first _____ months of use
  B. Faulty workmanship or unsatisfactory condition during delivery or commissioning
  C. If a unit or accessory is deemed used item or refurbished item (not a new unit) by the user and BME Unit.
- _____**time Planned Preventive Maintenance (PPM) PER YEAR** according to Manufacturer's Preventive Maintenance Guideline and to include one-time replacements of battery at the end of 2 years warranty period or any other relevant parts to prolong equipment lifespan.

EXCLUSION FROM WARRANTY

MOH understand that the following circumstances are not covered in the warranty and Tenderer may quote for repair and subject to MOH approval:

- Unauthorized modifications - an alteration or repair by anyone other than the Manufacturer or Authorized agent during warranty period.
- Accidental damage or problems caused by negligence or mishandling, subject to appropriate justification by both parties.
- Vandalism and Natural disasters
- Normal wear and tear

ANY OTHER EXCLUSION
Tenderer may propose to include items or terms which is not listed in the exclusion list above for MOH consideration. Please attach behind this form.

TENDERER ACKNOWLEDGMENT

COMPANY CHOP AND SIGNATURE

SECTION 3

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To:

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 2: BREAST IMAGING ULTRASOUND SYSTEM				
SECTION 1 – USER				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	Two (2) units of cart-based ultrasound (US) system.			
2	**Configured specifically for breast and small parts imaging.**			
3	The system is fully digital, compact, lightweight and cart-based design			
4	Comes with independent steer and central locking wheels.			
5	Comes with front and rear handles.			
6	Has at least three (3) active transducer ports and one (1) parking probe port.			
7	Has alphanumeric soft keys physical keyboard with easy access scans controls and facility to sanitise the system's keyboard to avoid cross contamination.			
8	Has trackball for moving cursor			
9	Inclusive of two (2) gel bottle holders.			
10	Inclusive of one (1) unit of integrated gel warmer.			
11	Has integrated cable management.			

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 2: BREAST IMAGING ULTRASOUND SYSTEM				
SECTION 1 – USER				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
12	System storage: integrated SSD or HDD or both.			
13	System storage: at least 1.5TB in total			
14	Operating system: Window 10 or latest			
15	Operating system: install on SSD			
16	Has cybersecurity program to protect system			
17	Power: able to operate on AC and on battery for at least 60 minutes or better			
18	Battery: Self charging and has low-battery indicator			
19	External data interface such as integrated DVD-RW drive, USB or its equivalent to enable external images transfer manually.			
20	Capable to compare images from previous study.			
21	Multiple preloaded application pre-sets available.			
22	Control Monitor/Touch Panel Type: Touchscreen colour display.			

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 2: BREAST IMAGING ULTRASOUND SYSTEM				
SECTION 1 – USER				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
23	Control Monitor/Touch Panel Size: at least 9 inches or better			
24	Control Monitor/Touch Panel has back-lighting			
25	Display Viewing Monitor Type: LCD technology or better			
26	Display Viewing Monitor Size: at least 22” or better			
27	Display Viewing Monitor Resolution: Full HD (1920 x 1080) or better			
28	Display Viewing Monitor has adjustable arm: can adjust tilt, swivel and height.			
29	Display Viewing Monitor has adjustable contrast and brightness			
30	Display Viewing Monitor can be fold down and locked for transportation.			
31	Labelling and markings shall be clear legible and durable. (Durable to withstand routine cleaning)			
32	Can be fold down and locked for transportation.			
33	**OPERATING MODES** The proposed system must include but not limited to the following operating modes:			

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 2: BREAST IMAGING ULTRASOUND SYSTEM				
SECTION 1 – USER				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
33.1	Brightness-mode (B) for fundamental imaging mode for anatomical visualization.			
33.2	Motion-mode (M) for motion analysis.			
33.3	Trapezoidal mode for extended field of view for linear probes.			
33.4	Pulsed wave (PW) mode for assessment of blood flow velocities			
33.5	Continuous wave (CW) doppler mode for analysing high-velocity blood flow			
33.6	Colour flow (CF) mode for mapping blood flow direction and velocity.			
33.7	Power doppler imaging (PDI) mode for detecting low-velocity blood flow.			
33.8	Contrast and tissue harmonic imaging for enhancing imaging for vascular studies and for clearer visualization of structures.			
33.9	Spatial compounding for improving image quality by combining multiple beam angles.			
33.10	Extended and convex field of view for enhancing visualization for larger areas during scanning			
33.11	Speckle reduction imaging for reducing noises for clearer images			

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 2: BREAST IMAGING ULTRASOUND SYSTEM				
SECTION 1 – USER				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
33.12	Automatic image optimisation for B-mode and doppler.			
33.13	Adjustment of focal zone, gain, TGC, dynamic range, edge enhancement, gamma correction.			
33.14	Frequency tuning for probes to adjust the frequency range on all transducers.			
33.15	Operator controlled multiple and adjustable focal zones.			
33.16	Real-time pan zoom capability			
33.17	Tools for labelling and anatomical markers for image annotation			
33.18	Customizable user defined pre-sets for variety of clinical applications.			
33.19	2D cine memory and M-mode scroll memory.			
33.20	Cine loop facility up to one minute at 25 frames per second (fps).			
33.21	Fast random-access image review.			
33.22	Ability to apply wide variety of image processing after the examination.			

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INVITATION TO TENDER
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ITEM 2: BREAST IMAGING ULTRASOUND SYSTEM				
SECTION 1 – USER				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
33.23	Full size and split-screen display.			
33.24	Support the following simultaneous display capability: B/PW			
33.25	Support the following simultaneous display capability: B/CF			
33.26	Support the following simultaneous display capability: B/spatial compounding			
33.27	Support the following simultaneous display capability: B/PDI			
33.28	Support the following simultaneous display capability: B/M			
33.29	Multi-image split-screen display capability with combination such as: Live and frozen image comparisons			
33.30	Multi-image split-screen display capability with combination such as: B or spatial compounding and B or spatial compounding			
33.31	Multi-image split-screen display capability with combination such as: B or spatial compounding and CF			
33.32	Multi-image split-screen display capability with combination such as: B or spatial compounding and PDI			
33.33	Multi-image split-screen display capability with combination such as: PW/M			

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INVITATION TO TENDER
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ITEM 2: BREAST IMAGING ULTRASOUND SYSTEM				
SECTION 1 – USER				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
34	**MEASUREMENT AND CALCULATION PACKAGES** The proposed system shall include the following:			
34.1	Basic measurements such as: distance (four points), angle (two points), calculation of diameter, area, circumference, calculation of volume by height/width/length, planimetry, automatic planimetry and empirical method.			
34.2	Automated lesion analysis tools: auto lesion outline, volume calculation, BI-RADS Assistant.			
34.3	Real-time automatic doppler and vascular calculations and waveform indices.			
34.4	Elastography Measurements:			
34.4.1	Shear wave elastography (SWE) measurement for breast stiffness in both m/s and kPa with automated interquartile range (IQR) and median value.			
34.4.2	Strain elastography (SE) to evaluate stiffness (elasticity) of breast tissue measure tissue deformation in response to compression and provide a color-coded or greyscale map to represent the stiffness.			
34.5	Biopsy and interventional measurement tools such as needle paths, visibility, distance-to-target measurement, localisation and marking.			
34.6	Inclusive of breast productivity package or breast-specific lesion measurements such as aspect ratio and tumour-to-nipple distance along with tools for evaluating breast productivity.			

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INVITATION TO TENDER
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ITEM 2: BREAST IMAGING ULTRASOUND SYSTEM				
SECTION 1 – USER				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
34.7	Inclusive of automated carotid intima-media thickness (CIMT) measurement tools.			
34.8	Support panoramic imaging up to 60cm and curved imaging up to 360^0			
35	**NETWORKING, CONNECTIVITY AND PACS INTEGRATION**			
35.1	Must fully support and comply to DICOM 3.0 standards, including: 1. DICOM Image Storage, 2. DICOM Modality Worklist (MWL), 3. DICOM Query/Retrieve (Q/R) and 4. DICOM Structured Reporting (SR)			
35.2	Must support Modality Performed Procedure Step (MPPS)			
35.4	Allow bidirectional data exchange for seamless workflow.			
35.5	Image must be able to store as DICOM and PC format			
35.6	System must have wireless connectivity and ethernet RJ45			
35.7	System must be HL7 ready and activated			
35.8	The systems proposed shall be integrated and connected to Radiology PACS (RPACS) therefore ALL licenses for integration with PACS should be included.			

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 2: BREAST IMAGING ULTRASOUND SYSTEM				
SECTION 1 – USER				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
	Tenderer to include the cost of PACS integration quoted from PACS vendor. Please refer to PACS vendor for information on PACS integration requirement. Tenderer may contact the quotation of PACS integration for this project directly to the MOH's PACS vendor or through the Healthcare Technology Department, Ministry of Health			

2	**TRANSDUCERS**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
	The following transducers shall be included for each of the two breast imaging ultrasound systems:			
1	Two (2) units of **high frequency linear** transducer **for vascular, small parts, breast and musculoskeletal.** (Tenderer to state the frequency.)			**Model:** **Frequency:**
2	Two (2) units of broadband curved array transducer **for general purpose ultrasound imaging.** (Tenderer to state the frequency.)			**Model:** **Frequency:**
3	Two (2) units of linear transducer **for breast applications.** (Tenderer to state the frequency.)			**Model:**

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

2	**TRANSDUCERS**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
				Frequency:
4	**All transducers supplied must have a warranty period of at least one (1) year or better and comes with the necessary probe cover (if applicable)**			

3	**DELIVERY AND INSTALLATION SITES**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
	Distribution for delivery, installation, testing and commissioning sites are as follows:			
1	Two (2) units to Breast Imaging Centre, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.			

4	**WARRANTY AND 3 YEARS POST WARRANTY PREVENTIVE MAINTENANCE (PM)**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	Tenderer to include warranty period of **at least two (2) years**			

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

4	**WARRANTY AND 3 YEARS POST WARRANTY PREVENTIVE MAINTENANCE (PM)**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
2	Tenderers to **ACKNOWLEDGE** the Warranty Undertaking Form in Section 4 stating the terms of warranty provided for the equipment in the tender for the period of two years. This includes but not limited to:			
2.1	Scope of Warranty			
2.2	Two time Planned Preventive Maintenance during warranty [Manufacturer's Standard]			
3	Tenderer to provide additional 3 years Preventive Maintenance service post warranty [At least One Time PM per year or as per Manufacturer's Standard]			**3 YRS PM POST WARRANTY** COST PER UNIT PER YEAR: BND$
				NUMBER OF PM PER YEAR:
				TOTAL COST FOR 3 YEARS: BND$
4	Tenderer to provide and attach the scope of work for 3 years PM service post warranty			

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TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

5	**END USER TRAINNING**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	Inclusive **of clinical application training** for all radiologists for at least seven (7) working days on-site for all the operation and applications offered with the system **by Manufacturer's Application Specialist** which includes but not limited to:			
1.1	Basic user operation, including image transfers.			
1.2	Application training for the use of the various applications provided with the system.			
1.3	Basic maintenance, including troubleshooting			
2	**Training certificate must be provided by manufacturer or tenderer after completion of training sessions.**			
3	On-site **follow up application training by application specialist after three (3) months** of clinical use to ensure the system is fully optimised.			
4	Two (2) sets of User/Operation Manual in English			
5	Two (2) sets of Training Manual in English			
6	Introductory **Technical Training** to Biomedical Engineers and Technicians at BME RIPASH Office by competent Tenderer's Engineer/Technicians that includes but not limited to:			
6.1	Troubleshooting and basic corrective maintenance			
6.2	Handling and basic inspection maintenance			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

6	**INTERNATIONAL STANDARDS**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
	Equipment model offered must at least be in compliance and approved with four (4) of the following standards or better: (Please provide the documentation/certification to support this compliance)			
1	European Union (CE MARK)			
2	Food and Drug Administration (FDA) USA			
3	International Electrotechnical Commission (IEC) 60601			
4	International Electrotechnical Commission (IEC) 62304			
5	International Organization for Standardization (ISO) 14971			
6	International Organization for Standardization (ISO) 13485			
7	International Organization for Standardization (ISO) 10993			

7	**DEMO UNIT**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	Tenderer to arrange a demo unit of the proposed system to be use for at least one to two (2) weeks – in Radiology Department, RIPASH.			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SECTION 2 – PRICE PROPOSAL	
UNIT PRICE: **BND$**	**TOTAL PRICE:** **BND$**

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SECTION 3 - PROCUREMENT AND TECHNICAL SPECIFICATION								
BRAND:					MODEL:			
COUNTRY OF ORIGIN:					UNIT PRICE (B$):			
WARRANTY PERIOD:					TOTAL PRICE (B$):			
YEAR INTRODUCED TO MARKET:					LAST COUNTRY SOLD TO:			
PRICE VALIDITY: [AT LEAST ONE (1) YEAR PRICE VALIDTY]					DELIVERY TIME:			
AUTHORIZED DISTRIBUTOR: (AUTHORIZED DISTRIBUTOR LETTER ATTACHED)					APPOINTED BRUNEI DISTRIBUTOR			
					PROCURE FROM OVERSEA AUTHORIZED DISTRIBUTOR	COMPANY NAME:		
						COMPANY ORIGIN:		
DETAILED BROCHURE INCLUDED		YES		NO	**☑ or specify where appropriate**			
USER AND SERVICE MANUALS:		YES		NO	Tenderers to acknowledge that they must provide at least TWO sets of USER AND SERVICE manuals when applying commissioning form. One Set for End User, One Set for BME. (Please provide hardcopy or softcopy)			
MAINS POWER SUPPLY:		220V-240V			BATTERY [ ] YES [ ] NO			
		50-60HZ			Type of Battery:		Rating:	
		OTHERS:			RECHARGEABLE		NON-RECHARGEABLE	
POWER ADAPTER/CHARGER OUTPUT RATING:					EQUIPMENT AMBIENT OPERATING TEMPERATURE RANGE:			
NUMBER OF TECHNICAL SUPPORT (ENGINEER/TECHNICIAN) Please provide training or certification for locals who is trained/certified		LOCAL				□ Trained / Certified □ Not yet trained on the product		
		OVERSEA (SPECIFY LOCATION)			NEAREST LOCATION:			
DIMENSIONS AND WEIGHT OF MAIN UNIT:			□ mm □ cm □ inch			□ Kilogram (Kg) □ Gram(g) □ Pound (lbs)		
EQUIPMENT WHOLE LIFE TIME SUPPORT:	The supplier shall ensure that spare parts for the equipment are available for a minimum of 8 years after installation, with the support period extending beyond the expected lifecycle of the equipment. No of years: _____ (Please specify)							

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SECTION 4 – WARRANTY UNDERTAKING FORM

Tenderer, on behalf of the manufacturer, acknowledged and agrees that when equipment is under the warranty period, must cover the scope of normal warranty below at no additional cost:

NORMAL WARRANTY

- Warrants the supplied medical equipment and its accessories to be in good condition, in working order and free from defects to the extend such equipment do not comply with specifications, under normal use for the warranty period. The scope of warranty covers to its maximum extent permitted by applicable law.
- During warranty, tenderer must rectify issues arise from any mechanical, technical or software faulty as soon as it is reported.
- **Exchange warranty**; Providing replacement units or OEM parts:
  D. Warranty against defects – Manufacturing defects or Equipment malfunction resulted from mechanical, electrical or software failure during Commissioning or within the first _____ months of use
  E. Faulty workmanship or unsatisfactory condition during delivery or commissioning
  F. If a unit or accessory is deemed used item or refurbished item (not a new unit) by the user and BME Unit.
- _____**time Planned Preventive Maintenance (PPM) PER YEAR** according to Manufacturer's Preventive Maintenance Guideline and to include one-time replacements of battery at the end of 2 years warranty period or any other relevant parts to prolong equipment lifespan.

EXCLUSION FROM WARRANTY

MOH understand that the following circumstances are not covered in the warranty and Tenderer may quote for repair and subject to MOH approval:

- Unauthorized modifications - an alteration or repair by anyone other than the Manufacturer or Authorized agent during warranty period.
- Accidental damage or problems caused by negligence or mishandling, subject to appropriate justification by both parties.
- Vandalism and Natural disasters
- Normal wear and tear

ANY OTHER EXCLUSION
Tenderer may propose to include items or terms which is not listed in the exclusion list above for MOH consideration. Please attach behind this form.

TENDERER ACKNOWLEDGMENT

COMPANY CHOP AND SIGNATURE

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 3: MID-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	One (1) unit of cart-based ultrasound (US) system.			
2	**Configured specifically for angiography imaging**			
3	The system is fully digital, compact, lightweight and easy to move.			
4	Comes with independent steer and central locking wheels.			
5	Comes with front and rear handles.			
6	Has at least two (2) active transducer ports and one (1) parking probe port.			
7	Has alphanumeric soft keys physical keyboard with easy access scans controls and facility to sanitise the system's keyboard to avoid cross contamination.			
8	Has trackball for moving cursor			
9	Inclusive of two (2) gel bottle holders.			
10	Inclusive of one (1) unit of integrated gel warmer.			
11	Has integrated cable management.			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 3: MID-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
12	System storage: integrated SSD or HDD or both.			
13	System storage: at least 1.5TB in total			
14	Operating system: Window 10 or latest			
15	Operating system: install on SSD			
16	Has cybersecurity program to protect system			
17	Power: able to operate on AC and on battery for at least 60 minutes or better			
18	Battery: Self charging and has low-battery indicator			
19	External data interface such as integrated DVD-RW drive, USB or its equivalent to enable external images transfer manually.			
20	Capable to compare images from previous study.			
21	Multiple preloaded application pre-sets available.			
22	Control Monitor/Touch Panel Type: Touchscreen colour display.			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 3: MID-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
23	Control Monitor/Touch Panel Size: at least 9 inches or better			
24	Control Monitor/Touch Panel has back-lighting			
25	Display Viewing Monitor Type: LCD technology or better			
26	Display Viewing Monitor Size: at least 21” or better			
27	Display Viewing Monitor Resolution: Full HD (1920 x 1080) or better			
28	Display Viewing Monitor has adjustable arm: can adjust tilt, swivel and height.			
29	Display Viewing Monitor has adjustable contrast and brightness			
30	Display Viewing Monitor can be fold down and locked for transportation.			
31	Labelling and markings shall be clear legible and durable. (Durable to withstand routine cleaning)			
32	Can be fold down and locked for transportation.			
33	**OPERATING MODES** The proposed system must include but not limited to the following operating modes:			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 3: MID-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
33.1	Brightness-mode (B) for fundamental imaging mode for anatomical visualization.			
33.2	Motion-mode (M) for motion analysis.			
33.3	Trapezoidal mode for extended field of view for linear probes.			
33.4	Pulsed wave (PW) mode for assessment of blood flow velocities			
33.5	Continuous wave (CW) doppler mode for analysing high-velocity blood flow			
33.6	Colour flow (CF) mode for mapping blood flow direction and velocity.			
33.7	Power doppler imaging (PDI) mode for detecting low-velocity blood flow.			
33.8	Contrast and tissue harmonic imaging for enhancing imaging for vascular studies and for clearer visualization of structures.			
33.9	Spatial compounding for improving image quality by combining multiple beam angles.			
33.10	Extended and convex field of view for enhancing visualization for larger areas during scanning			
33.11	Speckle reduction imaging for reducing noises for clearer images			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 3: MID-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
33.12	Automatic image optimisation for B-mode and doppler.			
33.14	Adjustment of focal zone, gain, TGC, dynamic range, edge enhancement, gamma correction.			
33.15	Frequency tuning for probes to adjust the frequency range on all transducers.			
33.16	Operator controlled multiple and adjustable focal zones.			
33.17	Real-time pan zoom capability			
33.18	Tools for labelling and anatomical markers for image annotation			
33.19	Customizable user defined pre-sets for variety of clinical applications.			
33.20	2D cine memory and M-mode scroll memory.			
33.21	Cine loop facility up to one minute at 25 frames per second (fps).			
33.22	Fast random-access image review.			
33.23	Ability to apply wide variety of image processing after the examination.			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 3: MID-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
33.24	Full size and split-screen display.			
33.25	Support the following simultaneous display capability: B/PW			
33.26	Support the following simultaneous display capability: B/CF			
33.27	Support the following simultaneous display capability: B/spatial compounding			
33.28	Support the following simultaneous display capability: B/PDI			
33.29	Support the following simultaneous display capability: B/M			
33.30	Multi-image split-screen display capability with combination such as: Live and frozen image comparisons			
33.31	Multi-image split-screen display capability with combination such as: B or spatial compounding and B or spatial compounding			
33.32	Multi-image split-screen display capability with combination such as: B or spatial compounding and CF			
33.33	Multi-image split-screen display capability with combination such as: B or spatial compounding and PDI			
33.34	Multi-image split-screen display capability with combination such as: PW/M			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 3: MID-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
34	**MEASUREMENT AND CALCULATION PACKAGES** The proposed system shall include the following:			
34.1	Basic measurements such as: distance (four points), angle (two points), calculation of diameter, area, circumference, calculation of volume by height/width/length, planimetry, automatic planimetry and empirical method.			
34.2	Automated measurement packages including reports, urology, renal, cardiac (M-mode and B-mode), obstetrics and gynaecological and vascular.			
34.3	Real-time automatic doppler calculations and waveform indices.			
34.4	Support panoramic imaging up to 60cm and curved imaging up to 360 degrees			
35	**NETWORKING, CONNECTIVITY AND PACS INTEGRATION**			
35.1	Must fully support and comply to DICOM 3.0 standards, including: 1. DICOM Image Storage, 2. DICOM Modality Worklist (MWL), 3. DICOM Query/Retrieve (Q/R) and 4. DICOM Structured Reporting (SR)			
35.2	Must support Modality Performed Procedure Step (MPPS)			
35.3	Allow bidirectional data exchange for seamless workflow.			

SECTION 3

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TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 3: MID-END ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
35.4	Image must be able to store as DICOM and PC format			
35.5	System must have wireless connectivity and ethernet RJ45			
35.6	System must be HL7 ready and activated			
36.7	The systems proposed shall be integrated and connected to Radiology PACS (RPACS) therefore ALL licenses for integration with PACS should be included. Tenderer to include the cost of PACS integration quoted from PACS vendor. Please refer to PACS vendor for information on PACS integration requirement. Tenderer may contact the quotation of PACS integration for this project directly to the MOH's PACS vendor or through the Healthcare Technology Department, Ministry of Health			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

2	**TRANSDUCERS**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
	The following transducers shall be included for the mid-end ultrasound system:			
1	One (1) units of high frequency linear transducer **for vascular, small parts, breast and musculoskeletal.** (Tenderer to state the frequency.)			**Model:** **Frequency:**
2	One (1) units of broadband curved array transducer **for general purpose abdominal and obstetric.** (Tenderer to state the frequency.)			**Model:** **Frequency:**
3	**All transducers supplied must have a warranty period of at least one (1) year or better and comes with the necessary probe cover (if applicable)**			

3	**DELIVERY AND INSTALLATION SITES**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
	Distribution for delivery, installation, testing and commissioning sites are as follows:			
1	One (1) unit for Angiography Room, Radiology Department, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

4	**WARRANTY AND 3 YEARS POST WARRANTY PREVENTIVE MAINTENANCE (PM)**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	Tenderer to include warranty period of **at least two (2) years**			
2	Tenderers to **ACKNOWLEDGE** the Warranty Undertaking Form in Section 4 stating the terms of warranty provided for the equipment in the tender for the period of two years. This includes but not limited to:			
2.1	Scope of Warranty			
2.2	Two time Planned Preventive Maintenance during warranty [Manufacturer's Standard]			
3	Tenderer to provide additional 3 years Preventive Maintenance service post warranty [At least One Time PM per year or as per Manufacturer's Standard]			**3 YRS PM POST WARRANTY** COST PER UNIT PER YEAR: BND$ NUMBER OF PM PER YEAR: TOTAL COST FOR 3 YEARS: BND$
4	Tenderer to provide and attach the scope of work for 3 years PM service post warranty			

5	**END USER TRAINNING**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	Inclusive **of clinical application training** for all radiologists for at least seven (7) working days on-site for all the operation and applications offered with the system **by Manufacturer's Application Specialist** which includes but not limited to:			
1.1	Basic user operation, including image transfers.			
1.2	Application training for the use of the various applications provided with the system.			
1.3	Basic maintenance, including troubleshooting			
2	**Training certificate must be provided by manufacturer or tenderer after completion of training sessions.**			
3	On-site **follow up application training by application specialist after three (3) months** of clinical use to ensure the system is fully optimised.			
4	Two (2) sets of User/Operation Manual in English			
5	Two (2) sets of Training Manual in English			
6	Introductory **Technical Training** to Biomedical Engineers and Technicians at BME RIPASH Office by competent Tenderer's Engineer/Technicians that includes but not limited to:			
6.1	Troubleshooting and basic corrective maintenance			
6.2	Handling and basic inspection maintenance			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

6	INTERNATIONAL STANDARDS			
REF. NO.	DESCRIPTION	Tick (✓)		STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE
		YES	NO	
	Equipment model offered must at least be in compliance and approved with four (4) of the following standards or better: (Please provide the documentation/certification to support this compliance)			
1	European Union (CE MARK)			
2	Food and Drug Administration (FDA) USA			
3	International Electrotechnical Commission (IEC) 60601			
4	International Electrotechnical Commission (IEC) 62304			
5	International Organization for Standardization (ISO) 14971			
6	International Organization for Standardization (ISO) 13485			
7	International Organization for Standardization (ISO) 10993			

7	DEMO UNIT			
REF. NO.	DESCRIPTION	Tick (✓)		STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE
		YES	NO	
1	Tenderer to arrange a demo unit of the proposed system to be use for at least one to two (2) weeks – in Radiology Department, RIPASH.			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SECTION 2 – PRICE PROPOSAL	
UNIT PRICE: **BND$**	**TOTAL PRICE:** **BND$**

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SECTION 3 - PROCUREMENT AND TECHNICAL SPECIFICATION								
BRAND:					MODEL:			
COUNTRY OF ORIGIN:					UNIT PRICE (B$):			
WARRANTY PERIOD:					TOTAL PRICE (B$):			
YEAR INTRODUCED TO MARKET:					LAST COUNTRY SOLD TO:			
PRICE VALIDITY: [AT LEAST ONE (1) YEAR PRICE VALIDTY]					DELIVERY TIME:			
AUTHORIZED DISTRIBUTOR: (AUTHORIZED DISTRIBUTOR LETTER ATTACHED)					APPOINTED BRUNEI DISTRIBUTOR			
					PROCURE FROM OVERSEA AUTHORIZED DISTRIBUTOR	COMPANY NAME:		
						COMPANY ORIGIN:		
DETAILED BROCHURE INCLUDED		YES		NO	**☑ or specify where appropriate**			
USER AND SERVICE MANUALS:		YES		NO	Tenderers to acknowledge that they must provide at least TWO sets of USER AND SERVICE manuals when applying commissioning form. One Set for End User, One Set for BME. (Please provide hardcopy or softcopy)			
MAINS POWER SUPPLY:		220V-240V			BATTERY [ ] YES [ ] NO			
		50-60HZ			Type of Battery:		Rating:	
		OTHERS:			RECHARGEABLE		NON-RECHARGEABLE	
POWER ADAPTER/CHARGER OUTPUT RATING:					EQUIPMENT AMBIENT OPERATING TEMPERATURE RANGE:			
NUMBER OF TECHNICAL SUPPORT (ENGINEER/TECHNICIAN) Please provide training or certification for locals who is trained/certified		LOCAL				□ Trained / Certified □ Not yet trained on the product		
		OVERSEA (SPECIFY LOCATION)			NEAREST LOCATION:			
DIMENSIONS AND WEIGHT OF MAIN UNIT:				□ mm □ cm □ inch		□ Kilogram (Kg) □ Gram(g) □ Pound (lbs)		
EQUIPMENT WHOLE LIFE TIME SUPPORT:	The supplier shall ensure that spare parts for the equipment are available for a minimum of 8 years after installation, with the support period extending beyond the expected lifecycle of the equipment. No of years: _____ (Please specify)							

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

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- Warrants the supplied medical equipment and its accessories to be in good condition, in working order and free from defects to the extend such equipment do not comply with specifications, under normal use for the warranty period. The scope of warranty covers to its maximum extent permitted by applicable law.
- During warranty, tenderer must rectify issues arise from any mechanical, technical or software faulty as soon as it is reported.
- **Exchange warranty**; Providing replacement units or OEM parts:
  G. Warranty against defects – Manufacturing defects or Equipment malfunction resulted from mechanical, electrical or software failure during Commissioning or within the first _____ months of use
  H. Faulty workmanship or unsatisfactory condition during delivery or commissioning
  I. If a unit or accessory is deemed used item or refurbished item (not a new unit) by the user and BME Unit.
- _____**time Planned Preventive Maintenance (PPM) PER YEAR** according to Manufacturer's Preventive Maintenance Guideline and to include one-time replacements of battery at the end of 2 years warranty period or any other relevant parts to prolong equipment lifespan.

EXCLUSION FROM WARRANTY

MOH understand that the following circumstances are not covered in the warranty and Tenderer may quote for repair and subject to MOH approval:

- Unauthorized modifications - an alteration or repair by anyone other than the Manufacturer or Authorized agent during warranty period.
- Accidental damage or problems caused by negligence or mishandling, subject to appropriate justification by both parties.
- Vandalism and Natural disasters
- Normal wear and tear

ANY OTHER EXCLUSION
Tenderer may propose to include items or terms which is not listed in the exclusion list above for MOH consideration. Please attach behind this form.

TENDERER ACKNOWLEDGMENT

COMPANY CHOP AND SIGNATURE

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 4: O&G ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	Real-time image optimization and transducer technology migration			
2	Imaging frequency range: 1–20 MHz			
3	At least 4 active transducer ports with electronic selection			
4	Integrated gel warmer with temperature adjustment			
5	Transducer storage holder for minimum 7 probes & utility storage baskets with gel holder			
6	Integrated cable management with multiple cable hooks, front/back handles, and lockable wheels			
7	Customizable imaging modes and parameters			
8	**IMAGING CAPABILITIES**			
8.1	Imaging modes: B-mode, M-mode, Color & Power Doppler, Pulsed Wave & Continuous Wave Doppler			
8.2	Adjustable field of view size and position, 2D beam steering angle ≥ ±30°			
8.3	Parenchymal image harmonization for reduced noise and improved sharpness			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 4: O&G ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
8.4	Speckle noise reduction with ≥ 3 levels via dynamic tissue contrast enhancement			
9	**CONTROL PANEL & DISPLAY**			
9.1	Height-adjustable control panel with ±90° swivel articulation			
9.2	Tiltable touchscreen interface with USB ports			
9.3	Conventional keyboard and laser optical trackball with backlighting			
9.4	In-Plane Switching monitor			
9.5	Display size: ≥ 21 inches			
9.6	Display resolution ≥ 1920×1080			
9.7	Digital calipers: minimum 4 active			
9.8	Zoom and pan on both real-time and frozen images			
10	**POWER, SOFTWARE & STORAGE**			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 4: O&G ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
10.1	Mains supply: 100–240V AC, 50/60 Hz			
10.2	Battery integrated			
10.3	Battery operation: ≥ 70 minutes scan time with status display			
10.4	Operating System: Windows 10 or later with antivirus installed			
10.5	SSD ≥ 500 GB with automatic disk management			
10.6	Cine memory: not less than 500 frames			
11	**NETWORKING, CONNECTIVITY AND PACS INTEGRATION**			
11.1	Must fully support and comply to DICOM 3.0 standards, including: 1. DICOM Image Storage, 2. DICOM Modality Worklist (MWL), 3. DICOM Query/Retrieve (Q/R) and 4. DICOM Structured Reporting (SR)			
11.2	Must support Modality Performed Procedure Step (MPPS)			
11.3	Allow bidirectional data exchange for seamless workflow.			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 4: O&G ULTRASOUND SYSTEM				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
11.4	Image must be able to store as DICOM and PC format			
11.5	System must have wireless connectivity and ethernet RJ45			
11.6	System must be HL7 ready and activated			
11.7	The systems proposed shall be integrated and connected to Radiology PACS (RPACS) therefore ALL licenses for integration with PACS should be included. Tenderer to include the cost of PACS integration quoted from PACS vendor. Please refer to PACS vendor for information on PACS integration requirement. Tenderer may contact the quotation of PACS integration for this project directly to the MOH's PACS vendor or through the Healthcare Technology Department, Ministry of Health			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

2	**TRANSDUCERS**				
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**	
		YES	**NO**		
	The following transducers shall be included for the O&G ultrasound system:				
1	One (1) unit of multi-frequency convex probe ▪ Penetration ≥ 350 mm and Field of View ≥ 70^0 (Tenderer to state the Model, Penetration, FOV and Frequency)			**Model:** **Penetration:**	**FOV:** **Frequency:**
2	One (1) unit of Endo Cavity Transducer ▪ penetration ≥ 140 mm and Field of View ≥ 220^0 (Tenderer to state the Model, Penetration, FOV and Frequency)			**Model:** **Penetration:**	**FOV:** **Frequency:**
3	One (1) unit of 4D Volume Transducer ▪ penetration ≥ 300 mm and Field of View ≥ 65^0 (Tenderer to state the Model, Penetration, FOV and Frequency)			**Model:** **Penetration:**	**FOV:** **Frequency:**
4	One (1) unit of 4D Endo Cavity Volume Transducer ▪ penetration ≥ 160 mm and Field of View ≥ 145^0 (Tenderer to state the Model, Penetration, FOV and Frequency)			**Model:** **Penetration:**	**FOV:** **Frequency:**
5	All transducers supplied must have a warranty period of at least one (1) year or better and comes with the necessary probe cover (if applicable)				

SECTION 3

TENDER FORM

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INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

3	**DELIVERY AND INSTALLATION SITES**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
	Distribution for delivery, installation, testing and commissioning sites are as follows:			
1	One (1) unit for Pengkalan Batu Health Centre, MCH, Brunei Muara.			
2	One (1) unit for Sg Kelugos Health Centre, MCH, Tutong.			
3	One (1) unit for Telisai Health Centre, MCH, Tutong.			

4	**WARRANTY AND 3 YEARS POST WARRANTY PREVENTIVE MAINTENANCE (PM)**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	Tenderer to include warranty period of **at least two (2) years**			
2	Tenderers to **ACKNOWLEDGE** the Warranty Undertaking Form in Section 4 stating the terms of warranty provided for the equipment in the tender for the period of two years. This includes but not limited to:			
2.1	Scope of Warranty			
2.2	Two time Planned Preventive Maintenance during warranty [Manufacturer's Standard]			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

4	**WARRANTY AND 3 YEARS POST WARRANTY PREVENTIVE MAINTENANCE (PM)**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
3	Tenderer to provide additional 3 years Preventive Maintenance service post warranty [At least One Time PM per year or as per Manufacturer's Standard]			**3 YRS PM POST WARRANTY** COST PER UNIT PER YEAR: BND$ NUMBER OF PM PER YEAR: TOTAL COST FOR 3 YEARS: BND$
4	Tenderer to provide and attach the scope of work for 3 years PM service post warranty			

5	**END USER TRAINNING**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	Inclusive **of clinical application training** for all radiologists for at least seven (7) working days on-site for all the operation and applications offered with the system **by Manufacturer's Application Specialist** which includes but not limited to:			
1.1	Basic user operation, including image transfers.			
1.2	Application training for the use of the various applications provided with the system.			
1.3	Basic maintenance, including troubleshooting			

5	**END USER TRAINNING**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
2	**Training certificate must be provided by manufacturer or tenderer after completion of training sessions.**			
3	On-site **follow up application training by application specialist after three (3) months** of clinical use to ensure the system is fully optimised.			
4	Two (2) sets of User/Operation Manual in English			
5	Two (2) sets of Training Manual in English			
6	Introductory **Technical Training** to Biomedical Engineers and Technicians at BME RIPASH Office by competent Tenderer's Engineer/Technicians that includes but not limited to:			
6.1	Troubleshooting and basic corrective maintenance			
6.2	Handling and basic inspection maintenance			

6	**INTERNATIONAL STANDARDS**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
	Equipment model offered must at least be in compliance and approved with four (4) of the following standards or better: (Please provide the documentation/certification to support this compliance)			
1	European Union (CE MARK)			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

6	**INTERNATIONAL STANDARDS**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
2	Food and Drug Administration (FDA) USA			
3	International Electrotechnical Commission (IEC) 60601			
4	International Electrotechnical Commission (IEC) 62304			
5	International Organization for Standardization (ISO) 14971			
6	International Organization for Standardization (ISO) 13485			
7	International Organization for Standardization (ISO) 10993			

SECTION 2 – PRICE PROPOSAL	
UNIT PRICE: **BND$**	**TOTAL PRICE:** **BND$**

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SECTION 3 - PROCUREMENT AND TECHNICAL SPECIFICATION								
BRAND:					MODEL:			
COUNTRY OF ORIGIN:					UNIT PRICE (B$):			
WARRANTY PERIOD:					TOTAL PRICE (B$):			
YEAR INTRODUCED TO MARKET:					LAST COUNTRY SOLD TO:			
PRICE VALIDITY: [AT LEAST ONE (1) YEAR PRICE VALIDTY]					DELIVERY TIME:			
AUTHORIZED DISTRIBUTOR: (AUTHORIZED DISTRIBUTOR LETTER ATTACHED)					APPOINTED BRUNEI DISTRIBUTOR			
					PROCURE FROM OVERSEA AUTHORIZED DISTRIBUTOR	COMPANY NAME:		
						COMPANY ORIGIN:		
DETAILED BROCHURE INCLUDED		YES		NO	**☑ or specify where appropriate**			
USER AND SERVICE MANUALS:		YES		NO	Tenderers to acknowledge that they must provide at least TWO sets of USER AND SERVICE manuals when applying commissioning form. One Set for End User, One Set for BME. (Please provide hardcopy or softcopy)			
MAINS POWER SUPPLY:		220V-240V			BATTERY [ ] YES [ ] NO			
		50-60HZ			Type of Battery:		Rating:	
		OTHERS:			RECHARGEABLE		NON-RECHARGEABLE	
POWER ADAPTER/CHARGER OUTPUT RATING:					EQUIPMENT AMBIENT OPERATING TEMPERATURE RANGE:			
NUMBER OF TECHNICAL SUPPORT (ENGINEER/TECHNICIAN) Please provide training or certification for locals who is trained/certified		LOCAL				□ Trained / Certified □ Not yet trained on the product		
		OVERSEA (SPECIFY LOCATION)			NEAREST LOCATION:			
DIMENSIONS AND WEIGHT OF MAIN UNIT:				□ mm □ cm □ inch		□ Kilogram (Kg) □ Gram(g) □ Pound (lbs)		
EQUIPMENT WHOLE LIFE TIME SUPPORT:	The supplier shall ensure that spare parts for the equipment are available for a minimum of 8 years after installation, with the support period extending beyond the expected lifecycle of the equipment. No of years: _____ (Please specify)							

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SECTION 4 – WARRANTY UNDERTAKING FORM

Tenderer, on behalf of the manufacturer, acknowledged and agrees that when equipment is under the warranty period, must cover the scope of normal warranty below at no additional cost:

NORMAL WARRANTY

- Warrants the supplied medical equipment and its accessories to be in good condition, in working order and free from defects to the extend such equipment do not comply with specifications, under normal use for the warranty period. The scope of warranty covers to its maximum extent permitted by applicable law.
- During warranty, tenderer must rectify issues arise from any mechanical, technical or software faulty as soon as it is reported.
- **Exchange warranty**; Providing replacement units or OEM parts:
  J. Warranty against defects – Manufacturing defects or Equipment malfunction resulted from mechanical, electrical or software failure during Commissioning or within the first _____ months of use
  K. Faulty workmanship or unsatisfactory condition during delivery or commissioning
  L. If a unit or accessory is deemed used item or refurbished item (not a new unit) by the user and BME Unit.
- _____**time Planned Preventive Maintenance (PPM) PER YEAR** according to Manufacturer's Preventive Maintenance Guideline and to include one-time replacements of battery at the end of 2 years warranty period or any other relevant parts to prolong equipment lifespan.

EXCLUSION FROM WARRANTY

MOH understand that the following circumstances are not covered in the warranty and Tenderer may quote for repair and subject to MOH approval:

- Unauthorized modifications - an alteration or repair by anyone other than the Manufacturer or Authorized agent during warranty period.
- Accidental damage or problems caused by negligence or mishandling, subject to appropriate justification by both parties.
- Vandalism and Natural disasters
- Normal wear and tear

ANY OTHER EXCLUSION
Tenderer may propose to include items or terms which is not listed in the exclusion list above for MOH consideration. Please attach behind this form.

TENDERER ACKNOWLEDGMENT

COMPANY CHOP AND SIGNATURE

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

ITEM 5: ULTRASOUND EXAMINATION COUCH AND CHAIR				
SECTION 1 – USER REQUIREMENTS				
1	**SYSTEM ARHITECTURE**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
1	Six (6) units of ultrasound examination couch and Ultrasound operator chair			
2	Ultrasound Examination Couch: Electric height adjustable type			
3	Ultrasound Examination Couch: Adjustable back and leg rest.			
4	Ultrasound Examination Couch: Complete with disposable paper dispenser mounts to the head end of the couch.			
5	Ultrasound Examination Couch: Suitable dimension for dedicated room (Please refer to each location)			
6	Ultrasound Chair: Height adjustable ultrasound chair (saddle type) for the operators with wheels and adjustable back			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

2	**DELIVERY AND INSTALLATION SITES**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		YES	**NO**	
	Distribution for delivery, installation, testing and commissioning sites are as follows:			
1	One (1) unit for Main ultrasound room, Radiology Department, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.			
2	One (1) unit for Radiology Unit, Pengiran Muda Mahkota Pengiran Muda Haji Al-Muhtadee Billah (PMMPMHAMB) Hospital, Tutong			
3	One (1) unit for Radiology Unit, Suri Seri Begawan (SSB) Hospital, Kuala Belait			
4	One (1) unit for Angio Room, Radiology Department, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.			
5	Two (2) units for Breast Imaging Centre, Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital, Brunei Muara.			

3	**WARRANTY**			
REF. NO.	**DESCRIPTION**	**Tick (✓)**		**STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE**
		Y	**N**	
1	Tenderer to include warranty period of **at least two (2) years**			
2	Tenderers to **ACKNOWLEDGE** the Warranty Undertaking Form in Section 4 stating the terms and scope of warranty provided for the equipment in the tender for the period of two years.			

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SECTION 2 – PRICE PROPOSAL	
UNIT PRICE: **BND$**	**TOTAL PRICE:** **BND$**

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

SECTION 3 - PROCUREMENT AND TECHNICAL SPECIFICATION								
BRAND:					MODEL:			
COUNTRY OF ORIGIN:					UNIT PRICE (B$):			
WARRANTY PERIOD:					TOTAL PRICE (B$):			
YEAR INTRODUCED TO MARKET:					LAST COUNTRY SOLD TO:			
PRICE VALIDITY: [AT LEAST ONE (1) YEAR PRICE VALIDTY]					DELIVERY TIME:			
AUTHORIZED DISTRIBUTOR: (AUTHORIZED DISTRIBUTOR LETTER ATTACHED)					APPOINTED BRUNEI DISTRIBUTOR			
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DETAILED BROCHURE INCLUDED		YES		NO	**☑ or specify where appropriate**			
USER AND SERVICE MANUALS:		YES		NO	Tenderers to acknowledge that they must provide at least TWO sets of USER AND SERVICE manuals when applying commissioning form. One Set for End User, One Set for BME. (Please provide hardcopy or softcopy)			
MAINS POWER SUPPLY:		220V-240V			BATTERY [ ] YES [ ] NO			
		50-60HZ			Type of Battery:		Rating:	
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NUMBER OF TECHNICAL SUPPORT (ENGINEER/TECHNICIAN) Please provide training or certification for locals who is trained/certified		LOCAL				☐ Trained / Certified ☐ Not yet trained on the product		
		OVERSEA (SPECIFY LOCATION)			NEAREST LOCATION:			
DIMENSIONS AND WEIGHT OF MAIN UNIT:			☐ mm ☐ cm ☐ inch			☐ Kilogram (Kg) ☐ Gram(g) ☐ Pound (lbs)		
EQUIPMENT WHOLE LIFE TIME SUPPORT:	The supplier shall ensure that spare parts for the equipment are available for a minimum of 8 years after installation, with the support period extending beyond the expected lifecycle of the equipment. No of years: _____ (Please specify)							

SECTION 3

TENDER FORM

To:

TENDER REFERENCE NO: KK/139/2025/HTD

INVITATION TO TENDER
PROVISION OF ULTRASOUND SYSTEMS FOR RADIOLOGY DEPARTMENT, MINISTRY OF HEALTH

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