



STANDARD BIDDING DOCUMENT (SBD) FOR
PURCHASE OF ULTRASOUND MACHINES IN PROJECT TITLED PROCUREMENT OF
EQUIPMENT FOR UP-GRADATION OF RADIOLOGY DEPARTMENT AT PIMS

SINGLE STAGE - TWO ENVELOPS PROCEDURE

Due on February 21st, 2026 till 11:00 AM.

S#	Special Instructions for Vendors (Please read carefully)
1	Vendors / Firms will require to upload their proposals/ quotations/ bids and all essential requisite documents through E-PADS at PPRA website no hard copy will be accepted. The participant Vendors are required to quote rates in printed form.
2	The Vendors/ firms are not allowed to change the Serial No and specification (s) of (technical bid/financial bid) tender schedules. In case of non-compliance complete bid or item(s) will be cancelled.
3	Any conditional, ambiguous or incomplete offer in any respect shall not be entertained. No supplementary or revised offer after the opening of tender shall be considered.
4	Technical brochures/ Literature brand country of origin of quoted item/ material must also be uploaded with the bid where required.
5	All vendors will drop the original Pay Order/ CDR of Rs. 500,000 on account of bid security along with original Affidavits/ undertakings and copy of Tender Receipt in envelop duly signed and sealed by the firms authority/ focal person in the Drop Box placed at Purchase Department before 11:00 hrs on the specified date as mentioned in the advertisement.

Tender Schedule Issued to M/s _____

Vide Receipt No _____ Dated _____



A-GENERAL CONDITIONS:-

1	All columns related to the particular items should be filled properly. The columns against item which is not been quoted should be written NQ or (Not Quoted).
2	Supplier will upload all relevant papers as asked for with the bid as documentary evidence.
3	While tendering your quotation, the present trend/ inflation in the rate of goods and services in the market should be kept in mind. No request for increase in price due to market fluctuation in the cost of goods and services will be entertained.
4	The Manufacturer/ Sole Distributor will submit an Affidavit on Legal Stamp Paper of Rs.100/- that:- <ul style="list-style-type: none">➤ The firm is not blacklisted on any ground by any Government/ (Federal, Provincial), a local body or a public sector organization.➤ That the firm will abide by all terms and conditions of the Bidding Documents.➤ That the equipment to be supplied is brand new and of latest generation free from defects in design material and workmanship and will bind himself for availability of spares for a period of 10-years from the date of supply. In case of winding up of his business the supplier shall be bound to make on alternate arrangements of spares and maintenance of equipment. In case of default depreciated cost of equipment will be recoverable from him. "If the vendor/ supplier pack up/ close his business original manufacturer will be bound to make alternate arrangement".➤ Original CDR in the shape of Pay Order in favor of Executive Director-PIMS along with original above cited affidavits/undertakings and a copy of tender receipt on bid closing date at Purchase Department PIMS as mentioned in the Advertisement.
5	Original Brochure/ leaflets containing information regarding quoted item (s) must be attached with technical proposal to judge the specifications of the quoted item (s).
6	Prices shall be quoted in Pak Rupees.
7	All participated firms will be responsible to quote their rates on FOR Islamabad basis for all quoted Items.
8	GST for the purchases and SST on services will be applicable as per FBR policy, however; firm will responsible to quote their rates without GST/ SST. Any kind of applicable taxes etc, (except GST/SST) including transportation charges from port/seaport to PIMS in case of FOR Islamabad basis / free delivery to the hospital will be the responsibility of the successful vendor.
9	No bid will be entertained without Bid Money and conditional tender will also not be accepted. Bid Money of lesser amount shall not be accepted.
10	Detail of qualified and trained technical personnel and facilities shall be provided when it is required. The vendor must have proper workshop and factory-trained engineers for major equipment at respective station.
11	Price escalation will not be allowed.
12	Tender, who does not fulfill the prescribed terms and conditions as laid down, is liable to be rejected.
13	Renovation of the ultrasound rooms along with the bathrooms will be the responsibility of the vendor
14	The payment will be made after satisfactory report of the end user department and electro-medical department.
15	Income tax "and other taxes" will be deducted according to government rules.
16	- The Questioner Proforma is attached at "Annex-A" must be properly filled in, and should be completed in all respects. - In case Questioner Proforma is incomplete or information provided are incorrect, the bid



	will be rejected.
17	The Project Director has the right to reject or accept tender as per PPRA rules and the decision of the competent authority will be final.
18	The successful bidder will submit 10% Performance Guarantee of the total awarded amount as Pay Order/ Bank Guarantee in favor of Executive Director PIMS. The same will be released after expiry of warranty period.
19	The successful bidder will submit 2% Performance Guarantee of the total awarded amount as Pay Order/ Bank Guarantee in favor of Executive Director PIMS for Comprehensive Maintenance Contract (CMC) period at the time of expiry of warranty period and same will be released after the expiry of CMC.
20	The bids will be valid for 180-days from the date of the opening of the tender.
21	Successful bidder will sign the integrity pact (if cost of equipment exceeded more than 10 million Rupees) available at PPRA website.
22	The firm should be registered with DRAP.

B- SPECIFIC CONDITIONS: -

1	The equipment offered must be of latest version/generation, old model should not be quoted. The old model will not be considered, even though if it fulfills tender specifications.
2	Quality Assurance tools/ test equipment availability with local vendor for Preventative Planned Maintenance (PPM) and periodic calibration along with list of test tools with calibration validity be provided by firm before entering in to agreement.
3	The warranty period will commence from the date of commissioning of the unit as per report of End-User and Electromedical Department.
4	Firm must provide complete details of their financial standing, bio-data of engineers with training certificates/ test equipment, details of local stock of spare parts for similar equipment and details of office with number of personals with technical bid.
5	The contractor must be authorized sole agent of the manufacturer. No sub-sole distributor is allowed to participate in tender. The sole distribution certificate must be attached with technical bid (without said certificate the said bid will be rejected without any notice).
6	Certificate from the sole agent must be duly attested by the concerned authorities i.e., Embassy/ Counselors office attestation.

C- RESPONSIBILITIES: -

1	01-year Standard Warranty.
2	The successful firm will be responsible to submit the undertakings on Judicial Paper duly attested by Notary Public that they will supply/ install the equipment in accordance laid down/ stipulated period along with PG within 07-days after the issuance of letter of Intent then the formal award letter will be issued.
3	The equipment to be supplied should be accompanied with one original and two printed copies of the operation, service/ maintenance and schematic diagram and spare part list manual in the English language.
4	Contractor/ Supplier will be responsible for pre-requisition installation, free of cost and also responsible for pre-installation work if required after inspection.
5	Equipment/ Instrument will be handed over to store keeper through electro- medical department.
6	The firm will be bound to deliver and install the Equipment complete in all respects in PIMS within 60-days after the issuance of award letter.
7	Up gradation of software as well as FIMS for the life of system should be provided from the



	manufacturer if required and vendor will be responsible, to provide.
8	<p>The system will have the minimum uptime 95% in case of down time beyond this period the following penalty will be applied: -</p> <ul style="list-style-type: none">- 95% to 100% No penalty.- Less than 95% the warranty period will be extended 0.5 times the number of days system is down.- Less than 90% warranty period will be extended 1.5 times the down time period.- Less than 85% warranty period will be extended two (2) times the down time period and supplier is supposed to give justification of delay.- If uptime is less than 80%, The performance guarantee will be forfeited and the firm will be liable to be blacklisted until and unless the firm provides reasonable justifications to the competent authority, and hospital reserve the right to launch a complaint to the Principal/ Manufacturer to take action against the supplier and warranty will be extended three (3) time for the down time period.- PPM will not consider in the down time and PPM of the system will be done on quarterly basis. However, the down time will be calculated on annual basis.
9	<p>In addition to extension of warranty period, financial penalty for the corresponding downtime will be imposed as follows:-</p> <p>Equipment less than 0.1million</p> <ul style="list-style-type: none">- Uptime less than 95% no penalty- Uptime less than 90% Rs 100/ day- Uptime less than 85% Rs 200/day- Uptime less than 80% Rs 500/day <p>Equipment less than 1million</p> <ul style="list-style-type: none">- Uptime less than 95% no penalty- Uptime less than 90% Rs 200/ day- Uptime less than 85% Rs 500/day- Uptime less than 80% Rs 1000/day correspondence <p>Equipment less than 10million</p> <ul style="list-style-type: none">- Uptime less than 95% Rs 500/day- Uptime less than 90% Rs 1000/ day- Uptime less than 85% Rs 2000/day- Uptime less than 80% Rs 5000/day <p>Equipment above 10million</p> <ul style="list-style-type: none">- Uptime less than 95% Rs 1000/day- Uptime less than 90% Rs 2000/ day- Uptime less than 85% Rs 4000/day- Uptime less than 80% Rs 8000/day.

D-PENALTIES: -

1	If supplier/firm doesn't supply equipment in accordance with the supply order or fails to supply according to terms and conditions or in case of any other default, it will be black listed and the earnest money/ PG will be forfeited.
2	If the supplier fails to give supply within the stipulated period, penalty will be imposed @ 0.1 % of the total value of equipment per day subject to maximum of 10% value of the ordered equipment.

E- FORCE MAJEURE: -



1	For the purposes of this clause Force Majeure means an act of God or an event beyond the control of the supplier and not involving the supplier's fault or negligence directly or indirectly purporting to misplanning, mismanagement and/or lack of foresight to handle the situation. Such events may include but are not restricted to acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, earthquakes, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the supplier shall promptly notify the purchaser in writing with sufficient and valid evidence of such condition and the cause thereof. The Force Majeure Committee will examine the pros and cons of the case and all reasonable alternative means for completion of supply order under this Contract and will submit its recommendations to the competent authority. However, unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek reasonable alternative means for performance not prevented by the Force Majeure event.
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F- ARBITRATION AND RESOLUTION OF DISPUTES: -

1	The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
2	If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred to the Arbitrator for resolution through arbitration.
3	In case of any dispute concerning the interpretation and application of Contract. It shall be settled through arbitration, Project Director who or his nominee shall act as sole arbitrator. The award rendered by the sole arbitrator shall be final and binding on the Parties.

I/We agree with the above-mentioned terms and conditions.

Name and Signature of proprietor /suppliers with full address of firm.



SUPPLIERS QUESTIONNAIRE PROFORMA

(To be filled in by the vendor)

Equipment _____
 Model _____
 Manufacturer _____
 Supplier _____

1- Year of Introduction of the offered model: _____
 Version (if same model revised): _____

2- Number of equipment installed (Please provide names of institution for Pakistan/ Islamabad)

- Worldwide. _____
- In Pakistan. _____
- In Islamabad/ Rawalpindi. _____

3- Manuals to be provided: Yes No

- Service. _____
- Parts List _____
- Electrical Drawing/ Schematics _____
- Operational/ Application _____

4- Spare parts Availability Guarantee (No of years): _____

5- Source of spares availability Lead time

- Local _____
- Overseas _____

6- Equipment life period (number of years) _____

7- Do you hold specialized tools/test equipment required for:

- Maintenance Yes No N/A
- Calibration _____

Please provide list of tools/test equipment including their calibration status on a separate sheet.

8- On call service charges:

- Minimum: _____
- Per day: _____

9- Warranty period (please provide following details:





- Uptime Guarantee: _____ %
- Response time to maintenance requested: _____ Hrs
- No of PPM/Year: _____
- Any other: _____

10- Do you have any objection/ concerns to use similar Specification spares of alternate/ other manufacturer during warranty of maintenance contract (if available) Yes No
 _____ _____

11- Up-gradation possibility:

- Hardware _____
- Software _____

Please state safety standard conformance (e.g. IEC 601, FDA, AAMI etc):

12- Pre-Installation services requirements:

- Power: _____ KW
- Voltage: _____ Single/ Three phase
- Gas: _____ Cuft/ hr
- Water: _____ Gallons/ Liter Hour
- Air: _____ PSI (pascal)

(If pre-treated water required, please provide details)

- Air _____ PSI Vacuum _____ mmgh
- Other: _____
 (e.g. Drain, Exhaust, Physical facility change etc)
- Installation time: _____
- Installation/ commissioning by whom: _____

13- Environmental Parameters Limits:

- Temperature _____ to _____ centigrade/ Fahrenheit
 - Humidity _____ to _____ % RH.
- IEC 601- International Electro Technical commission (Code 601)
 AAMI - American Association for medical instrumentation.
 FDA - Food & Drug administration.

14- Any other specific requirement (e.g. UPS, Voltage Stabilizer etc, provide details):

Supplier's Name: _____
 Authorized Signature: _____
 Designation: _____



FINANCIAL BID PROFORMA

PART -1

S. #	Equipment:-	Qty	Unit Cost Without GST in Pak Rupees	Total Cost Without GST in Pak Rupees
1	Ultrasound Machines	10		

PART -2

S. #	Description	Unit Cost Without GST in Pak Rupees	Total Cost Without GST in Pak Rupees
1	Cost of Maintenance contract with parts for 2 nd year.		
2	Cost of Maintenance contract with parts for 3 rd year.		
3	Cost of Maintenance contract with parts for 4 th year.		
4	Cost of Maintenance contract with parts for 5 th year.		
Total Cost With Effect From 2 nd Year to 5 th Year:-			

PART -3

S. #	Description	Cost Without GST in Pak Rupees
1	Total Cost of Part -1 (Cost of Equipment with 01 Year Warranty)	
2	Total Cost of Part -2 (Cost of CMC w.e.f. 2 nd to 5 th year)	
	Grand Total Cost of Part 1 + Part 2	

Note:

GST will be applicable as per policy of FBR Government of Pakistan.

Lowest bidder will be determined on the basis of Cost of Part-1 + Cost of Part-2 i.e. Cost of the Equipment + Cost of the Comprehensive Maintenance Contract with effect from 2nd year to 5th year.

The payment for comprehensive maintenance contract will be made on quarterly basis in Pak. Rupees. All the equipment accepts consumable will be covered under Comprehensive Maintenance Contract.

Quantity can be increased / decreased at the time of issuance of supply orders as per actual requirements / available budget.

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Annexure - "B"

COMPREHENSIVE MAINTENANCE CONTRACT

S#	TERMS & CONDITIONS
1.	This contract is made at Islamabad on _____ by and between the President of the Islamic Republic of Pakistan through Executive Director PIMS, under Ministry of National Health Services, Regulations & Coordination, Islamabad hereinafter called the Employer which terms shall include his successor assign as first part and legal representative of the second part of M/s. _____ Incorporated under the law of Pakistan of the other part (hereinafter) referred to as the contractor whereas the employer has decided that the comprehensive maintenance contract (CMC), of _____ PIMS should be carried out.
2.	WHEREAS the Employer intends that M/s _____ Maintains / repair the:- _____ called the "equipment" and "M/s _____ agrees to maintain / repair the equipment between (date) _____ and _____ both days inclusive, on the following mutually agreed terms and conditions.
3.	Contractor M/s. _____ agrees to provide the Employer Comprehensive Maintenance Services with Labour & Parts.
4.	Contractor guarantees the availability of spare parts and accessories for the system during contract period.
5.	With effect from (date) _____ service charges based on quoted value _____ for equipment requiring maintenance, will be payable every year to the contractor in four equal instalments. The contractor will submit the bill at the end of every three months.
6.	The concerned Head of Department and Head of EME department will be responsible to endorse the monthly Performance Evaluation Report (PER) of firm and said reports will be part of quarterly bills. No payment of maintenance contract will be made without Performance Evaluation Report.
7.	Pre-audit will be carried out Finance Department before clearance of the bill. The payment will be made on the submission of quarterly performance report.
UPTIME GUARANTEE:	
1.	Annual Uptime of 95% be considered as acceptable level of performance.
2.	Contractor shall check system performance, every month. For every month an "uptime percentage" will be calculated by the dividing "system in service" hours by "hours available" both measured on the basis of working hours.
3.	If the uptime percentage for the measurement period should fall short of 95% annually the following formula will be applied to determine additional days in service contract period. Courteous.
4.	The system will have the minimum uptime 95% in case of down time beyond this period the following penalty will be applied: - - 95% to 100% No penalty. - Less than 95% the warranty period will be extended 0.5 times the number of days system is down. - Less than 90% warranty period will be extended 1.5 times the down time period. - Less than 85% warranty period will be extended two (2) times the down time period and





	supplier is supposed to give justification of delay. - If uptime is less than 80%, The performance guarantee will be forfeited and the firm will be liable to be blacklisted until and unless the firm provides reasonable justifications to the competent authority, and hospital reserve the right to launch a complaint to the Principal/ Manufacturer to take action against the supplier and warranty will be extended three (3) time for the down time period. - PPM will not consider in the down time and PPM of the system will be done on quarterly basis. However, the down time will be calculated on annual basis.
DOWN TIME	
1.	Downtime is defined as failure in equipment operation to acquire or process data, resulting in inability to carry out the required procedure properly.
2.	Down time will start when the end user notifies the designated service facility verbally or in writing. The Contractor will provide the service telephone number accessible round the clock. The response time of 02 hours will be considered normal.
3.	Downtime will end once the repairs have been affected and the system is again available for required procedures / use.
4.	The installation of the system improvement and updates as per schedule by mutual agreement of both the parties as well as scheduled & preventative maintenance shall not be considered as downtime.
5.	Qualified and fully trained/ service support will be available from the contractor as a backup to the local engineers during the contract period at no cost to the client.
SCOPE OF WORK	
1.	Annual comprehensive maintenance of three days duration.
2.	Eleven monthly inspections of one day duration each. The annual and monthly inspections will include: Adjustment, Setting and Lubrication.
3.	Correction of detected defects which result from normal wear & tear and replacing parts, if necessary to maintain the system for smooth functioning
4.	Installation/ updating of originally purchased software whenever made available by the manufacturer.
5.	Field modification, if any, recommended by the manufacturer to improve performance and reliability.
6.	Contractor shall also carry out necessary repairs, within the scope of this agreement, as and when required by the client. Furthermore, contractor shall provide support to operating staff of the equipment as and when considered necessary.
7.	The Employer is expected to make the equipment to be maintained, available on the agreed dates. In case the client can't meet this requirement, he is obliged to inform the contractor to this affect at least three days prior to the agreed date.
8.	Contractor shall also carry out necessary repairs including room renovation, air condition and electrical panel
9.	Log book will be maintained for equipment(s) to record every activity performed on the equipment including room maintenance & electrical works.
SPARE PARTS	
1.	Contractor shall maintain spare parts inventory at a level to meet 95% uptime guarantee.
2.	Import of all parts required during the service contract period will be consigned & and will be cleared by the contractor.
3.	Faulty part(s) will be returned to the Contractor after replacement by the new parts and proper functional status of the equipment will be attained to the satisfaction of end user and EME
MISCELLANEOUS	
1.	In case of any representation on part of contractor, the case shall be put before the "Committee for Grievances / Redressal Committee for Settlement of Dispute" who shall act as arbitrator and



	its decision shall be final.
2.	The Contractor has the right to terminate the service contract agreement, if the Employer does not make the payments according to the agreed schedule, within the 60 days of receiving the notice of such delayed payment.
3.	Employer as well has the right to terminate the contract if contractor fails to provide services as per contractual conditions, after being duly notified by the Employer in writing of its short comings and allowing reasonable time for remedial action.
FORCE MAJEURE	
1.	The Contractor agrees to perform all services in good faith. However, in the event of Force Majeure any party shall be entitled to suspend performance of obligations. Force Majeure shall be deemed to be any event or occurrence beyond a party's control, as a results of which said party is unable to comply with obligations or can't reasonably be required to do so and shall include acts of God, civil disturbance, wars, acts of public enemy, riots, strikes or work stoppages.
2.	In case of any dispute concerning the interpretation and application of Contract. It shall be settled through arbitration; the arbitrator will be appointed with mutual consent of both parties. The award rendered by the sole arbitrator shall be final and binding on the Parties.

Signature of accepting officer /
Competent Authority, PIMS
Employer

For & behalf of Contractor

Signature: - _____
Name: - _____
Designation: - _____

Signature: - _____
Name: - _____
Designation: - _____

Witness-1
Signature: - _____
Name: - _____
Designation: - _____

Witness-1
Signature: - _____
Name: - _____
Designation: - _____

SPECIFICATIONS OF ULTRASOUND MACHINES

DIGITAL HIGH END COLOR DOPPLER SYSTEM WITH LIVER PACKAGE	HIGH END FULLY DIGITAL BEAM FORMER COLOR DOPPLER HAVING 2D/M-MODE AND DOPPLER FACILITIES, (PW, HPRF, & COLOR FLOW IMAGING) WITH A HIGH-RESOLUTION IMAGING DOPPLER SIGNAL QUALITY. CAPABLE TO HANDLE UPTO 30 MHZ MULTI FREQUENCY PROBE AND UPGRADABLE TO CW, 4D IMAGING.
1) B-MODE SPECIFICATION:	- SECTOR SCAN ANGLE VARIABLE IN FOUR STEPS.
	- VIEWING DEPTH: 50CM MINIMUM
	- BUILT IN CINE MEMORY: 900 MB OR MORE
	- REAL TIME AND FREEZE IMAGE MAGNIFICATION / ZOOM AT LEAST 25X OR MORE.
2) M-MODE SPECIFICATION:	- SWEEP SPEED: 8-STEPS
	- COLOR DISPLAY
3) D-MODE SPECIFICATION:	- PULSE-WAVE DOPPLER MEASURABLE VELOCITY RANGE.
	- HPRF DOPPLER.
	- COLORIZED SPECTRUM DISPLAY.
	- AUTOMATIC BASELINE AND VELOCITY RANGE CONTROL.
	- LIVE MEASUREMENTS FOR DOPPLER SPECTRUM.
4) COLOR DOPPLER MODE SPECIFICATIONS:	- PW DOPPLER MUST BE CONTINUOUS STEERABLE IN THE COLOR BLOOD FLOW IMAGE MODE IN REAL TIME.
	- 2D IMAGE WITH COLOR, CW / PW DOPPLER.



	- WINDOWS BASED SYSTEM FOR EASY USAGE WITH PROGRAMMABLE CONTROL PANEL KEYS.
	- TISSUE HARMONIC IMAGING.
	- POWER DOPPLER.
	- TRIPLEX MODE FOR SIMULTANEOUS DISPLAY OF COLOR B/M AND D-MODE DISPLAYS
	- SYSTEM DYNAMIC RANGE 290dB OR MORE.
5) MEASUREMENT PACKAGE:	TO PROVIDE COMPREHENSIVE SOFTWARE PACKAGE FOR MEASUREMENT OF DISTANCE, CIRCUMFERENCE, AREA, TIME, DEPTH, VELOCITY, FREQUENCY, HEART RATE, VOLUMES, AUTO IMT, AUTO NUCHAL THICKNESS MEASUREMENT SOFTWARE TO BE PROVIDED AS STANDARD.
6) SYSTEM COMPLETE WITH FOLLOWING FACILITIES AND ACCESSORIES	- MINIMUM 23" LCD/LED MONITOR WITH RESOLUTION (1920 x 1080), TILT ABLE AND SWIVEABLE TYPE.
	- MINIMUM 4 TRANSDUCER CONNECTORS FOR TRANSTHORACIC PROBES.
	- DVD/CD DRIVE FOR IMAGE STORAGE TO BE BUILT-IN TO THE SYSTEM.
	- 256SSD FOR FAST OPERATION.
	- 1TB HDD TO BE BUILT-IN TO THE SYSTEM.
	- BUILT IN FULL DICOM.
	- TOUCH COMMAND SCREEN CONTROL AT LEAST 12-INCHES COLOR LCD/TFT.
7) UPGRADEABILITY:	SYSTEM SOFTWARE MUST BE UPGRADEABLE.
8) STANDARD PROBES:	a. 2 – 6 MHZ MULTI-FREQUENCY MATRIX CONVEX PROBE FOR B/M/CDI/PW, STRAIN AND SHEARWAVE ELASTOGRAPHY.
	b. 5 –18 MHZ MULTI-FREQUENCY LINEAR PROBE FOR B/M/CDI/PW, STRAIN AND SHEARWAVE ELASTOGRAPHY.



	c. 4 –10 MHZ MULTI-FREQUENCY ENDOCAVITY PROBE FOR B/M/CDI/PW, STRAIN AND SHEARWAVE ELASTOGRAPHY.
STANDARD ACCESSORIES:	- THERMAL PAPER PRINTER WITH 10 ROLLS OF PAPER (BLACK & WHITE). - COMPATIBLE UPS (IMPORTED).
10) STANDARD FEATURES:	- NEEDLE ENHANCEMENT FOR BIOPSY NEEDLE VISUALIZATION.
	- TISSUE DOPPLER IMAGING MODE.
	- FRAME RATE: 2,000 F/SEC OR MORE.
	- WIDE VIEW ANGLE OF 140 DEGREE WITH MATRIX CONVEX PROBE WITHOUT COMPROMISING THE FRAME RATE.
	- INTELLIGENT BEAM FORMATION TECHNOLOGY FOR FULL FOCUS TO MAINTAIN RESOLUTION, SENSITIVITY AND FRAME RATE TO GET CLEAR IMAGE FROM FAR TO NEAR FIELD WITHOUT FOCUS ADJUSTMENT TO REDUCED THE OPERATION STEPS AND ACQUIRE HIGHER IMAGE UNIFORMITY.
	- AUTO IMAGE OPTIMIZATION / QUICK SCAN IMAGING FOR AUTOMATIC STC/GAIN AND DOPPLER SPECTRUM ADJUSTMENT WITH OPTIMAL IMAGE QUALITY BY USING ONE TOUCH OPERATION.
	- B-FLOW/DYNAMIC FLOW IMAGING / E-FLOW.
	- TRAPEZOID IMAGING/VIRTUAL CONVEX IMAGING WITH LINEAR PROBE.
	- COMPOUND/X VIEW+/APLIPURE IMAGING FOR BOTH FREQUENCY COMPOUNDING AND SPATIAL COMPOUNDING IN B/W AND COLOR MODE
	- N-SIGHT / ADAPTIVE SUPPRESSION / PRECISION IMAGING / XFLOW/ CROSS BEAM TO ENHANCE B-MODE IMAGING, DETAILED IN LAYERS AND BOUNDARIES AND SHARPENED OUTLINES OF THE LESIONS AND REDUCE CLUTTERING.
	- 3D IMAGING FOR THE ACQUISITION OF VOLUME DATA AND DISPLAY OF 3D IMAGES IN B/W AS WELL AS COLOR WITHOUT USING A 4D TRANSDUCER.



	<ul style="list-style-type: none"> - REFERENCE IMAGING FOR ULTRASOUND TO ULTRASOUND, ULTRASOUND TO CT AND ULTRASOUND TO MRI FOR IMAGE COMPARISON.
	<ul style="list-style-type: none"> - B-FLOW WITH COLOR AND XDCLEAR-2/MICRO V/SUPERB MICRO VASCULAR IMAGING WITH SPECTRAL DOPPLER TO CLEARLY SHOW BLOOD FLOW IN TINY VESSELS, LIVER CAPSULA, GALL BLADDER WALL ETC.
	<ul style="list-style-type: none"> - LIVE SHEARWAVE ELASTOGRAPHY WITH QUANTIFICATION AND ADJUSTABLE AREA BASED MINIMUM 2 X 3 CM DISPLAY FOR BODY ORGANS SPECIALLY LIVER WITH CONVEX & LINEAR PROBES TO VISUALIZE TISSUE STIFFNESS BY GENERATING IMAGES THROUGH SHEAR WAVE PROPAGATION, SPEED AND ELASTICITY MODES (SHEARWAVE SHOULD BE FDA APPROVED). - SHEARWAVE MEASUREMENT UPTO 700 KPA FOR BREAST AND HARD LESIONS.
	-DISPERSION MAP VISUALIZATION OF DISPERSION BETWEEN FREQUENCIES FOR VISCOCITY MEASUREMENT OF LIVER
	- ATT / UGAP / ATTENUATION IMAGING TO PROVIDES THE CAPABILITY TO MEASURE AND VISUALIZE THE ATTENUATION COEFFICIENT OF THE TISSUE FOR FATTY LIVER EVALUATION.
	- LIVE STRAIN RATE ELASTOGRAPHY WITH QUANTIFICATION FOR BODY ORGANS SPECIALLY BREAST TO VISUALIZE LESIONS: '
11) OPTIONAL (MUST QUOTE SEPARATELY):	<ul style="list-style-type: none"> - 30 MHZ MULTI-FREQUENCY MATRIX LINEAR PROBE. - 7 - 22 MHZ MULTI-FREQUENCY LINEAR (HOCKEY STICK) PROBE. - PANORAMIC VIEW IMAGING WITH MEASUREMENTS. - BREAST-BODY MAP/BREAST SCAN GUIDE TO OVERLAY POSITION BETWEEN MAMMOGRAM AND ULTRASOUND IMAGE. - FUSION IMAGING OF CT/ MRI 3D VOLUME DATA TO SYNCHRONIZED AND OVERLY WITH ULTRASOUND IMAGING, COMPLETE WITH HARDWARE. - 4D PACKAGE: LIVE 4D IMAGING WITH 4D CONVEX PROBE, LUMINANCE IMAGING.
12) CERTIFICATION	<p>FDA (510K) (Mandatory)</p> <p>CE & MHLW (Any one of two)</p>

