



OFFICE OF THE CHIEF DISTRICT MEDICAL & PUBLIC
HEALTH OFFICER, KANDHAMAL
E-Mail: cdmophulbani@gmail.com,
Phone / Fax No- 06842-253249

No. 6212
DWH / 48 / USG / 18-19

Phulbani

Dated 25 / 05 / 2019

To

The Director,
I & PR Department, Govt. of Odisha
Lok Sampark Bhawan, Bhubaneswar
E-mail id: ipr.advt@gmail.com / iprenews@gmail.com

Sub: Publication of the advertisement related to supply & installation of Ultrasound Machine to Kandhamal district.

Sir,

Please find here with a specimen copy of the advertisement related to **supply & installation of Ultrasound Machine to Kandhamal district** for Publication of the same in two nos. of daily news paper (One Odia & One English) (One time) by **Dt.27.05.2019**.

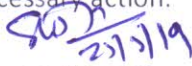
This is for favour of your kind information and necessary action.

Yours faithfully,


Chief District Medical & PH Officer,
Kandhamal
Date: 25 / 05 / 2019

Memo No. 6213 / DWH

1. Copy to the DI & PRO, Kandhamal for information and necessary action.
2. Copy to the DIO, NIC, Kandhamal for information with a request to publish the same along with the enclosures (enclosed herewith) in the District website of Kandhamal district for wide publicity.
3. Copy to the Head Clerk, O/o CDM&PHO, Kandhamal for information and necessary action.


Chief District Medical & PH Officer,
Kandhamal

OFFICE OF THE CHIEF DISTRICT MEDICAL & PUBLIC HEALTH OFFICER, KANDHAMAL

No. 6211 / DWH

Tender Call Notice

Date 25/05/2019

Sealed tenders are invited from authorized firms for **supply & installation of Ultrasound Machine to Kandhamal district**. The details are available in the district website: www.kandhamal.nic.in. The **pre-bid discussion will be held on 06.06.2019 at 12 Noon**. The eligible bidders may submit their tender papers **on or before 17.06.2019 by 5 PM** through Registered Post / Speed Post / Courier / drop in the Tender Box available at O/o CDM&PHO, Phulbani. The **Technical Bid will open on 18.06.2019 at 5 PM** and the **Price Bid document will open on 19.06.2019 at 5 PM** by the purchase committee in the office chamber of the undersigned. The undersigned reserves the right to accept or reject any or all the tender without assigning any reason thereof.

Sd/-

Chief District Medical & PH Officer, Kandhamal



CHIEF DISTRICT MEDICAL & PUBLIC HEALTH OFFICER
KANDHAMAL

Tel: 06842-253385;
e-mail :cdmophulbani@gmail.com,

Tender Reference No. DWH/2018-19/6211/USG

TENDER DOCUMENT
FOR
SUPPLY & INSTALLATION
OF
ULTRASOUND
MACHINE

Address for Correspondence- Office of the Chief District
Medical & Public Health Officer, Kandhamal
At/Po-Phulbani, Dist- Kandhamal, Odisha
Pin-762001

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OFFICE OF THE CHIEF DISTRICT MEDICAL & PUBLIC HEALTH OFFICER, KANDHAMAL

SECTION -I

NOTICE INVITING TENDER

Tender Reference No. : . DWH/2018-19/6211/USG

Dated: 25. 05. 2019

TENDERS ARE INVITED FROM ELIGIBLE BIDDERS AS PER THE ELIGIBILITY CRITERIA FOR SUPPLY & INSTALLATION OF ULTRASOUND MACHINE

1	Period of Availability of Tender Document	From 27.05.2019 TO 18.06.2019 (Downloadable from website: www.kandhamal.nic.in) In case of any bid amendment and clarification, responsibility lies with the bidders to collect the same from the above mentioned website before last date of submission of tender document and the tender inviting authority shall have no responsibility for any delay / omission on part of the bidder.
2	Last date & time for submission of Tender	Date: 17.06.2019, Time: 5 PM Address of Submission of Bid: OFFICE OF THE CHIEF DISTRICT MEDICAL & PUBLIC HEALTH OFFICER, KANDHAMAL At/Po- Phulbani, Dist.- Kandhamal, Pin- 762001 (Through Speed post / Registered post / Courier) or drop in the Tender Box available at O/o CDM&PHO, Phulbani
3	Date, time & place of Pre-bid Discussion	Date: 06.06.2019, Time: 10 AM Place: OFFICE CHAMBER OF CDM&PHO, KANDHAMAL
4	Date, time and place of opening of Tender	A. Technical Bid (Cover-A): Opening – 18.06.2019 at 5 PM in the address mentioned above. B. Financial Bid (Cover B): Opening – 19.06.2019 at 5 PM in the address mentioned above. (Venue is mentioned at the address mentioned above) (Bidders / authorized representative may remain present at the time of opening of bid)

SECTION -II**IMPORTANT INSTRUCTIONS TO BE NOTED CAREFULLY BY THE TENDERERS**

1.	Mode of Procurement	Through Open Advertisement
2.	Purchaser	Chief District Medical & Public Health Officer, Kandhamal
3.	Consignee	DHH,SDH,AH,CHC etc of District Kandhamal
4.	Delivery Period	Within 30days from issue of the purchase order.
5.	Mode of Delivery	By Air / Road / Rail
6.	Guarantee / Warranty /CMC	<u>Comprehensive warranty</u> including all spares, maintenance etc. for a period 3(<i>three</i>) years from the date of installation & commissioning and 3(<i>three</i>) years CMC after warranty period.
7.	Tender Document Cost	Rs. 2,000/- : The tender document cost (Non-refundable) is to be submitted in the shape of bank draft in favour of the ZSS Non NRHM Fund, Kandhamal from any Nationalized / Scheduled Bank payable at Phulbani.
8.	Earnest Money Deposit (EMD) (The approx. no. of equipment is mentioned in the Schedule of requirement – Section IV)	The bidder may quote for any or all the equipment by submitting the required EMD (Refundable) of Rs.30,000/-. The Earnest Money Deposit will be paid in the shape of demand Draft only in favour of ZSS Non NRHM Fund, Kandhamal from any Nationalized / Scheduled Bank payable at Phulbani. EMD exemption is not permitted except to local SSI units registered in Odisha only as mentioned in Clause-4.3.

SECTION -III

TERMS & CONDITIONS

Sealed tenders are invited from the eligible bidders as per the eligibility criteria for **supply & installation of Ultrasound Machine** for the District, Kandhamal.

1. The bidders have to submit their tenders in separate sealed covers (i.e. **Cover "A"-Technical Bid & Cover "B"- Price Bid**). Both the covers should be put into a third **Cover "C"** which must be super-scribed as **"Tender for "Supply & installation of Ultrasound Machine" & Tender Reference No. 6211/DWH**.
2. **The Cover "A" (Technical Bid) should contain as follows:**
 - 1) Checklist with details of the documents enclosed in **Cover "A"** (as per **Annexure - I**) with page number. The document should be ***serially arranged*** as per this **Annexure - I** and should be securely tied and bound.
 - 2) Manufacturing unit / supplier, who has been blacklisted either by the Tender inviting authority or by any state Govt. or Central Govt. organization, is not eligible to participate in the tender for that item during the period of blacklisting. They should submit a declaration about this by a **Notary Public**.
 - 3) EMD **Rs.30,000/-** (Rupees Thirty Thousand only - Refundable) in shape of Bank Draft / Bankers Cheque in favour of ZSS Non NRHM Fund, Kandhamal payable at Phulbani.
 - 4) Tender Paper Cost **Rs.2000/-** (Rupees Two Thousand only – Non-refundable) in shape of Bank Draft / Bankers Cheque in favour of ZSS Non NRHM Fund, Kandhamal payable at Phulbani.
 - 5) List of Item (s) Quoted individually in the prescribed format (**Annexure – II**).
 - 6) Copy of organization PAN.
 - 7) Copy of organization Income Tax Acknowledgement Report (**Assessment Year 2016-17, 2017-18, 2018-19**) and copy of the audited financial statement for the last three financial year i.e. 2015-16, 2016-17 & 2017-18.
 - 8) Photocopy of the GST registration certificate and last three months GST return filling copy i.e. Jan-2019 to Marh-2019.
 - 9) The manufacturer / supplier should have 5 years market standing in supplying EIF to Govt./Corporate/PSU Hospitals in India. The copy of purchase order from the user should be furnished in support of the information provided in the market standing statement (item wise).
 - 10) Performance Statement during the last three years towards proof of supply of similar EIF to any Govt./Corporate/PSU Hospitals in India. The copy of certificate from the user should be furnished in support of the information provided in the performance statement (item wise).

- 11) Copy of Valid Manufacturing License of the manufacturer (s) / Import License by the Importer from the Original Equipment Manufacturer (OEM).
- 12) Copy of valid ISO Certificate.
- 13) Copy of valid ISI / CE / BIS / US FDA / IEC certificate.
- 14) All the tender documents should sign by the bidders at the bottom of each page with his official seal duly affixed.
- 15) Leaflet / Technical Brochures of the products / item offered.
- 16) They should quote the rates for individual items inclusive of packing, forwarding, door delivery and exclusive of GST and should submit a self declaration about this.
- 17) They must submit the undertaking that they will supply the stocks **within thirty days** after receipt of the Purchase Order from this office. In case of non-supply, the authority may allow extension for a **maximum period of 02 (two) weeks (14 days)** after the stipulated date of supply with a **penalty of 0.5% per week**, which will be deducted from the purchase order value as **"Liquidated Damage"**.
- 18) If the supplier fails to complete the supply within the extended period, i.e. 44 days after being allowed by the purchaser, no further purchase order will be placed to the firm for the said item including forfeiture of the EMD and the concerned firm will be blacklisted for three (3) years from the date of issue of letter for the said item.
- 19) Violating the tender terms and conditions & non supply / supply which is not as per technical specification will disqualify the firm to participate in the tender for a period of three (3) years from the date of issue of letter and his E.M.D will be forfeited and no further purchase order will be placed to that firm for that item.
- 20) The supplier shall have a minimum Annual average turnover of Rs.5 (five) Crores or more in the last three year financial years i.e. 2015-16, 2016-17 & 2017-18 and copy of the audited financial statement for the last three financial year i.e. 2015-16, 2016-17 & 2017-18.

3. General Condition:

- 1) Eligible bidders should present for pre-bid discussion & finalization of technical specification of Ultrasound Machine **06.06.2019 at 10 AM in the office chamber of CDM&PHO, Kandhamal.**
- 2) Eligible bidders should submit their tender documents to the CDM&PHO Kandhamal through **Speed Post / Registered Post / Courier or drop in the Tender Box available at O/o CDM&PHO, Phulbani on or before 17.06.2019 by 5 PM.**
- 3) Any tender documents received after the due date & time will be rejected and returned to the sender unopened.

- 4) Violating the tender terms and conditions & non-supply / partially supply / supply, which is not as per technical specification, will declared as **Blacklisted** and disqualify the firm to participate in any tender of this district for a period of next 03 (three) years from the date of issue of the letter and his E.M.D. will be forfeited.
- 5) Tenders documents should be typewritten or computerized, failing which the bidders will be ineligible for consideration. No further correction will be allowed.
- 6) Those bidders who have qualified in the Technical Bid, they must provide the demo of the product before the Technical Committee on 19.06.2019, otherwise the Price bid of the qualified bidders will not be opened.

4. The Cover "B" (Price Bid) should contain as follows:

- 1) Financial Bid must be submitted in the prescribed format as attached in **Annexure- IV**. No other document should be enclosed in the Financial Bid. The Financial Bid should be sent in a separate sealed cover called Cover "B" (Price Bid).
- 2) The rates should be computerized.
- 3) The price quoted by the tenderers shall not in any case, exceed the controlled price, if any, fixed by the Central / State Government / DGS&D and the Maximum Retail Price (MRP). The purchaser, at his discretion, will in such case, exercise the right of revising the price at any stage so as to confirm to the controlled price or MRP as the case may be deleted.
- 4) The rate quoted and accepted will be binding on the tenderer for a period of **one year** from the date of approval of the rate contract and on no account, any increase in the price will be entertained till the completion of this tender period.
- 5) If there is difference between figures & words, words will be taken into consideration.

The last date for submission of the tender documents is fixed on **17.06.2019 by 5 PM**. The Technical Bid will be opened on **18.06.2019 at 5 PM** by the purchase committee.

The undersigned reserves the right to reject or cancel any or all the tenders without assigning any reason thereof.



Chief District Medical & PH Officer
Kandhamal

CHECK LIST

Sl. No.	List of Tender Documents Submitted	Yes	No	Page No.
1	Cover "A"-Technical Bid			-
2	Cover "B"- Price Bid			-
3	EMD Rs.30,000/- (Rupees Thirty Thousand only - Refundable) in shape of Bank Draft / Bankers Cheque in favour of ZSS Non NRHM Fund, Kandhamal payable at Phulbani.			
4	Tender Paper Cost Rs.2000/- (Rupees Two Thousand only – Non-refundable) in shape of Bank Draft / Bankers Cheque in favour of ZSS Non NRHM Fund, Kandhamal payable at Phulbani.			
5	List of Item (s) Quoted in the prescribed format (Annexure – III)			
6	Self attested photocopy of organization PAN.			
7	Self attested photocopy of organization Income Tax Acknowledgement Report (Assessment Year 2016-17, 2017-18, 2018-19) and copy of the audited financial statement for the last three financial year i.e. 2015-16, 2016-17 & 2017-18.			
8	Self attested photocopy of the GST registration certificate and last three months GST return filling copy i.e. Jan-2019 to March-2019.			
9	Self attested photocopy regarding 5 years market standing in supplying above items to Govt./Corporate/PSU Hospitals in India.			
10	Performance Statement during the last three years towards proof of supply of similar EIF to any Govt./Corporate/PSU Hospitals in India. The copy of certificate from the user should be furnished in support of the information provided in the performance statement (item wise).			
11	Self attested photocopy of valid ISO certificate.			
12	Self attested photocopy of valid ISI / CE / BIS / US FDA / IEC certificate.			
13	All the tender documents should sign by the bidders at the bottom of each page with his official seal duly affixed.			
14	Leaflet / Technical Brochures of the products / item offered.			
15	Declaration by Notary Public regarding blacklisted of Manufacturer / supplier either by the Tender inviting authority or by any state Govt. or Central Govt. organization as per Annexure-V .			
16	Copy of Valid Manufacturing License of the manufacturer (s) / Import License by the Importer from the Original Equipment Manufacturer (OEM) as per Annexure-VI .			
17	Self Declaration regarding quote the rates for individual items inclusive of packing, forwarding, door delivery and exclusive of GST charges as per Annexure-VII .			
18	Self Declaration regarding the rate quoted and accepted will be binding on the tenderer for a period of one year from the date of approval of the rate contract and on no account, any increase in the price will be entertained till the completion of this tender period as per Annexure-VIII .			
19	Undertaking regarding they will supply the stocks within thirty days after receipt of the Purchase Order from this office as per Annexure-IX .			
20	Declaration regarding the supplier shall have a minimum annual average turnover of Rs.5 (five) Crores or more in the last three year financial years i.e. 2015-16, 2016-17 & 2017-18 as per Annexure-X . The bidders shall submit the audited financial statement for the last financial year i.e. 2015-16, 2016-17 & 2017-18 for verification of turnover.			

TENDER ITEMS

Sl. No.	Name of the Items
1	Ultrasound Machine

Annexure- IIILIST OF ITEMS QUOTED

Sl. No.	Tender Quoted Sl. No.	Name of the Item (As per Annexure-II)	Manufacture Name	Make	Model Name	Specification submitted by the Bidders (mention details)

Signature of the Bidder with seal

Annexure- IVPRICE BID

Sl. No.	Name of the Item	Make & Model	Unit Price with all accessories (as per Tender Clause No.-2.16) (both in words and figures)

Signature of the Bidder with seal

DECLARATION

(Filled by the Notary)

I / We _____ do hereby declare that I / We have **not been de-recognized / black listed** by the Tender inviting authority or by any state Govt. or Central Govt. organization for supply of **Not of Standard Quality Items / non-supply**.

I / We agreed that the Tender Inviting Authority can forfeit the Earnest Money Deposit and blacklist me / us for a period of 3 years if, any information furnished by me / us proved to be false at the time of inspection / verification and not complying with the Tender terms & conditions.

Seal & Signature of the Notary

MANUFACTURER'S AUTHORISATION FORM

*(to be submitted by authorized distributor/importers in a **letterhead** in case the bidder is the authorized distributor/importer of OEM)*

No.

Dated:

To

The Chief District Medical & Public Health Officer,
Kandhamal, Phulbani, Odisha

Dear Sir / Madam,

Bid Reference No. :**Equipment Name** :

We (name of the OEM) are the original manufacturers of the above equipment having registered office at (full address with telephone number/fax number & email ID and website), having factories at _____ and _____, do hereby authorize M/s. _____ (Name and address of bidder) as _____ (Importer / Distributor) to submit bids, and subsequently negotiate and sign the contract with you against the above bid no..

No company or firm or individual other than M/s. _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific bid reference no.

We also hereby undertake to provide full guarantee/warranty /CMC/AMC as agreed by the bidder in the event the bidder is changed as the dealers or the bidder fails to provide satisfactory after sales and service during such period of Comprehensive warranty/CMC/AMC and to supply all the spares/reagents / consumables for 6 years.

We also hereby declare that we have the capacity to manufacture and supply, install and commission the quantity of the equipments bided within the stipulated time.

(Name)

for and on behalf of M/s. _____

(Name of manufacturers)

Date:

Place:

Seal

Note: This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.

Annexure- VII

DECLARATION

(Filled by the Bidder)

I / We _____ do hereby declare that I /
We have quoted the rates for individual item inclusive of packing, forwarding & door delivery
and exclusive of GST.

Signature of the Bidder with seal

Annexure- VIII

DECLARATION

(Filled by the Bidder)

I / We _____ do hereby declare that the
rate quoted and accepted will be binding on the tenderer for a period of **one year** from the date of
approval of the rate contract and on no account, any increase in the price will be entertained till the
completion of this tender period, otherwise the Tender Inviting Authority can **forfeit the Earnest
Money Deposit and blacklist me / us for a period of next 3 years.**

Signature of the Bidder with seal

DECLARATION

(Filled by the Bidder)

I / We _____ do hereby declare that I / We supply the stocks **within 30 days** after receipt of the Purchase Order from the Tender Inviting Authority. In case of non-supply within the stipulated time period, the tender inviting authority may please be allowed extension for a **maximum period of 02 (two) weeks (14 days)** after the stipulated date of supply with a **penalty of 0.5% per week**, which will be deducted from the purchase order value as "**Liquidated Damage**".

I / We agreed that the Tender Inviting Authority can **forfeit the Earnest Money Deposit and blacklist me / us for a period of next 3 years for non-supply / part supply** of the stocks within the time period.

Signature of the Bidder with seal

ANNUAL AVERAGE TURN OVER STATEMENT
(To be furnished in the letter head of the Chartered Accountant)

The Annual Turnover of M/s _____ for the last 3 financial years are given below and certified that the statement is true and correct.

Sl. No.	Financial Year	Turnover in Crore (Rs.)
1	2015-16	
2	2016-17	
3	2017-18	
Average Annual Turnover in Crore (Rs.)		

Date:

Signature of Chartered Accountant

Place:

(Name in Capital)

Seal Membership No.-

Note:

- 1) To be issued in the letter head of the Chartered Accountant with membership No.
- 2) Also attach photocopies of the audited P/L account of each year highlighting the turnover in support of that.

TECHNICAL SPECIFICATION OF THE ITEMS

SPECIFICATIONS OF ULTRASOUND MACHINE

1. TECHNICAL CHARACTERISTICS

1.1 Technical characteristics (specific to this type of device)

The system should be state art with full Digital Technology & should be capable of whole body sonography & other application for adult & paediatric (Infants & Neonates) which includes abdominal, Obs/Gyn, Endovascular, Peripheral vascular, transvaginal, transrectal, small parts, Cardiac.

- 1) The system should incorporate facility for high resolution 2D, M mode, PW, Color imaging Modes. It should be able to display combined modes, Dual Live modes.
- 2) The system should support Convex, Linear, Sector, Volume Convex, Endo Volume, Matrix Array and static transducers. It should support volume imaging by freehand, mechanical, and electronic methods.
- 3) The system should support multiple fully sampled live Volume Imaging, for both adult and paediatric imaging.
- 4) All transducers should have Broad Bandwidth technology for extreme High Resolution 2D Imaging. The system should be able to capture all frequencies in a single Probe, without the need for user selection
- 5) The system should have more than 200000 Digital Channels
- 6) The system should have 256 Grey shade or more.
- 7) The system should have capability of duplex display in real time with all probes.
- 8) The system should have a very high frame rate of 2500 frames per second or more 2D, Frame rate of 500 Frames per second or more in Color flow & frame rate of 35 frames or more in 4D.
- 9) The system should have Harmonic imaging for hard to image patients. The system shall support Tissue Harmonic Imaging capability on all transducers.
- 10) The system should have advance image processing algorithms to analyse between targets & artifacts so as to sharpen target anatomy, reduce the sparkle & artifacts to improve image quality.
- 11) The system shall offer Harmonic Imaging in Power Doppler Imaging mode for improved sensitivity and specificity in differentiating blood/ agent from tissue.
- 12) System should be able to work in combined mode of Harmonic Imaging and Real time Compound Imaging to get excellent Image quality. The system shall offer Tissue Harmonic Imaging in Power Doppler imaging mode for improved sensitivity and specificity in differentiating blood / agent from tissue
- 13) The system should employ the state of the art Transmit Real Time Compound Imaging Technology with Multiple Transmitted lines of sight of at least 9 lines. Wherein Multiple Coplanar Images from different viewing angles are obtained and combined into a single compound Image at real-time frame rates for improved visualization & better image quality in Abdominal & Vascular Imaging & to virtually clean up the image of artifacts.

- 14) System should have advanced Image Processing algorithms to analyze between targets and artifacts so as to sharpen target anatomy and reduce the speckle & artifacts for improved Image quality.
- 15) System should be capable for real time extended field of view Imaging (Panoramic imaging) up to 100 cm with curved and linear transducers. All grayscale imaging must be capable of real time spatial Compounding during the panoramic imaging.
- 16) The system shall quantitatively calibrate panoramic images, allowing the user to perform area, circumference, distance and curved-linear distance measurements.
- 17) There should not be any reduction or change in pulsed Doppler PRF/scale when moving between duplex pulsed wave Doppler and simultaneous/triple modes. Also, system should offer automatic single button optimization of Doppler baseline and scale.
- 18) The system shall support simultaneous display of volume and multiplanar reconstructed (MPR) views.
- 19) The system should have the in-built software tool for imaging MPR. Thick Slice, and slice plane views.
- 20) The system shall support full screen display of all 3D views including individual X, Y, Z MPR views and simultaneous display of thumbnail views on the same system display monitor.
- 21) The system should support a utility for the creation of user defined general imaging protocols and the editing of default general imaging protocols
- 22) Preset controls shall include abdominal, carotid, lower extremity venous and gynecological exam guides that following industry and accreditation guidelines.
- 23) The system should have automatic real time quantification of Doppler parameters like velocity, frequency, time, heart rate, slope, flow volume, pulsatility index, resistivity index, peak velocity, average value, point value, area and diameter flow volume, etc
- 24) The system should provide extensive measurement, calculation and analysis packages for abdominal (General Vascular, Renal), small parts (Thyroid, Testicle, Breast). Ob/Gyn. Cardiology etc.
- 25) The system should support Intima Media Thickness (IMT) Quantification with automatic or user assisted tracing of Intima-media complex and the calculation and display of mean and standard deviation IMT based spatial average of Intima-media distances from each scan line.
- 26) The system should have facility for Zoom 10 times (Real-time and Frozen-image) & manipulation of image through pre-processing and post-processing with cine loop viewing image of all modes.
- 27) System should have disc of at least 500 GB or more.
- 28) System should have Cineloop review facility in individual and mixed modes with memory upto minimum of 2000 images and 100 seconds of M Mode data.
- 29) The system should have facility of digital storage & retrieval of B/W & colour image data (Both frozen & cine loops) on built in as well as removable media (CD, DVD) USB port.
- 30) The system should have automatic real time quantification of Doppler parameter like velocity, frequency, time heart rate stop, flow volume, pulsatility index, resistivity index, peak velocity, average value, point value, area & diameter flow volume etc.
- 31) The system should have high dynamic range of 180 dB or more with scanning depth of 35 cm or more.

- 32) All transducers should be broadband, with Frequency range 1 to 17 MHz or more with universal ports for transducer interchange.
- 33) The system shall have at least Four universal Pin less transducer ports with electronic switching capability allowing any transducer to be connected to any port.
- 34) System should have 19" HD LED display with tilt and swivel Facility along with alphanumeric keyboard with illuminating keys and status function.
- 35) The system should have a fast Boot up time of less than 90 seconds, which switched on from 'OFF' position, and also less than 60 seconds from 'STANDBY' position.
- 36) The system should have latest Operating systems
- 37) The System should incorporated with Intel i3 or better processer
- 38) Di-com 3.0 compatible.
- 39) Review of stored images is desirable.
- 40) Real time spatial compounding with transmit compounding minimum 7 different angles in spatial compounding without decrease in frame rate volume
- 41) Image visualization and delineations of pathology with optimized contrast resolution with real time speckle management techniques even in color, the same should be applicable able to combine seamlessly with other application features in the system.

1.2 User's interface Software, Automatic (stages to be displayed or recordable for printing).

1.3 Software and/or standard of communication (where ever required)

2. PHYSICAL CHARACTERISTICS

2.1 Dimensions (metric) :NA

2.2 Weight (lbs, kg): Less than 60KG

2.3 Configuration: NA

2.4 Noise (in dBA) Noise-free system.

2.5 Heat dissipation Heat Dissipation: Should maintain nominal Temp and the heat should be Disbursed through a cooling mechanism.

2.6 Mobility, portability Certified Room Installation.

3. ENERGY SOURCE :(electricity, UPS,)

3.1 Power Requirements Power unit: Input voltage- 220V-240V AC, 50Hz Single-phase

3.2 Battery operated: Yes/ UPS

3.3 Tolerance (to variations, shutdowns): NA

3.4 Protection NA

3.5 Power consumption – Less than 700VA

4. ACCESSORIES, SPARE PARTS, CONSUMABLES

4.1 Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system)

Machine should be supplied with following transducers:

- I. Pin less Broad band convex array transducer with multi-frequency range of 2 to 5 MHz or more
- II. Pin less Broad band trans-vaginal probe with multi-frequency range between 4 to 9 MHz or more with Field of View 180 Degree or more – 1No

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Above transducers are must be ingress protected against fluid and shock.

The system should have following documentation devices

- a) B/W Thermal printer of latest model
- c) Glazed thermal paper rolls 50 no. & 5 rim of Glossy paper sheet.
- d) Online Ups for power back up of minimum 30 minutes
- e) 50 nos. of CDs to be supplied.

5. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS

5.1 Atmosphere/Ambiance (air conditioning, humidity, dust ...)

- 1) Operating condition: Capable of operating continuously in ambient temperature of 5 to 50 deg C and relative humidity of 15 to 80% in ideal circumstances.
- 2) Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.

6.2 User's care, Cleaning, Disinfection & Sterility issues

- 1) Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.
- 2) Sterilization not required.

6. STANDARDS AND SAFETY

6.1 Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international

- 1. Should be USFDA & European CE (Notified Class IIa) approved product.
- 2. Manufacturer should have ISO 13485 certification for quality standards.
- 3. Electrical safety conforms to the standards for electrical safety IEC 60601-General requirements
- 5. Shall meet internationally recognized for Electromagnetic Compatibility (EMI/EMC) for electro-medical equipment: 61326-1.
- 6. Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety.
- 7. Local and/or international Manufacturer/supplier should have ISO 13485 certificate for quality standard.
- 8. IEC /EN 60601-2-37 Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment.
- 9. National / international Acoustic Output Standard certificate.

7. TRAINING AND INSTALLATION

7.1 Pre-installation requirements: values, quality, tolerance

- 1) Availability of 5 amp socket;
- 2) Safety and operation check before handover;
- 3) To be installed in a separate room.

7.2 Requirements for sign-off Certificate of calibration and inspection of parts from the manufacturer

7.3 Training of staff (medical, paramedical, technicians)

- 1) Training of users on operation and basic maintenance for 2 weeks;

2) Advanced maintenance tasks required shall be documented

8. WARRANTY AND MAINTENANCE

8.1 Warranty 3 years

8.2 Maintenance tasks CMC 5 years 2 Preventive maintenance M Visits Annually.

All Breakdown calls to be attended within 24 hrs of registration.

8.3 Service contract clauses, including prices The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee/warranty period should be attached;

9. DOCUMENTATION

9.1 Operating manuals, service manuals, other manuals Should provide 2 sets (hardcopy and soft-copy) of:-

- 1) User, technical and maintenance manuals to be supplied in English / hindi language along with machine diagrams;
- 2) List of equipment and procedures required for local calibration and routine maintenance;
- 3) Service and operation manuals (original and copy) to be provided;
- 4) Advanced maintenance tasks documentation;
- 5) Certificate of calibration and inspection

9.2 Other accompanying documents

List of essential spares and accessories, with their part numbers and cost;

10. NOTES

10.1 Service Support Contact details (Hierarchy Wise; including a toll free/landline number) Contact details of manufacturer, supplier and local service agent to be provided; Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer;

10.2 Recommendations or warnings any warning signs would be adequately displayed.