



NATIONAL INSTITUTE OF UNANI MEDICINE

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(An autonomous body under Ministry of Ayush, Govt. of India)
(Accredited to NABH)



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Date. 23/01/2020.

F.No.04-03/2019-20/NIUM/Admn./Vol.VI/229

To,

Subject: Invitation of Quotation for Supply & Installation of USG Color Doppler Machine for USG Unit in Hospital, NIUM: – reg.

Sir,

With reference to the subject mentioned above, Quotations are invited from reputed registered dealers for the supply & installation of instruments as detailed below.

Sl. No	Name of the Items	Specification /Make	Quantity Required.	Amount (₹)	Total GST Amount (₹)	Grant Total (₹)
01	USG color Doppler machine	<p>STANDALONE PREMIUM HIGH END COLOR DOPPLER MACHINE</p> <p>System architecture should be able to support High definition mode that is provided in standard function. That mode should provide Speckle noise reduction to reduce artifact such as multiple echoes and to improve spatial resolution and contrast resolution</p> <p>The system must be high end and should be latest and state of the art with fully digital technology equipment to incorporate the facility of 2D, M-Mode, PW Doppler, CW Doppler, Power Doppler, directional power, Contrast Imaging, Elastography imaging, Imaging for abdomen, obstetrics & Gynae, Peripheral vascular, adult trans-cranial & superficial parts imaging like breast, scrotum, thyroid, musculoskeletal and adult cardiac</p> <p>System must be offered with a minimum of 200000 digital processed channels. Technical data sheet should be enclosed in technical bid to support the number of channels on the systems. If not mentioned. Please attach a letter from manufacturer along with the technical bid clearly stating the digital processed channels of the offered system</p> <p>System must be offered with a very high system dynamic range of at least 190 dB to pick up subtle echoes. Dynamic range in dB must be clearly mentioned in the technical quote. System offered lesser than specified will not be considered</p> <p>System should have A/D converter of 12 bit or more</p>	01 Unit			

Cont. P.No. 02

[P.T.O]

System must be offered with a minimum 21 inch or More High Resolution Flat Panel Medical grade IPS monitor with nearly infinite position adjustments

System should have at-least Three Imaging universal active probe ports with electronic switching facility from key board without probe adapter. It connects 3 probes simultaneously

Operating modes B-mode, M-Mode, B/M Mode, Doppler Mode, Colour flow, Power Doppler, Contrast Imaging, B/Colour flow, PW Doppler, CW Doppler

System should be with facilities of Color Flow, Power Flow, Directional Power flow & High spatial & temporal resolution color flow (fine flow, B Flow or e flow).

System should support broad band probes spanning a frequency of 1-18 MHz

System should have Pan Zoom & Hi Zoom display magnification 8 times, display format change in flip flop, horizontal, vertical and rotation

B mode & B colour simultaneous should be available side by side real time display of B Mode & Colour flow. Digital zoom facility for region of interest in real time and frozen images

System should allow us to take 10 pair distance measurement at a time on a frozen image. System should support Baseline Shift and angle correction in both real time and after freeze

Image storage facility on external hard disc or CD/DVD-RW facility should be available. In built hard disk with minimum capacity of 400 GB or More

Cine loop as well as cine scroll facility in B mode with storage Max 18000 or more storage capacity. M/D Recording time Max 300 seconds..

Technical data sheet should be enclosed in technical bid

System must be offered with Speckle Reduction Imaging : Image processing technique to remove speckles and clutter artifacts

Advanced measurements & calculation package for abdominal, Obst&Gync, Cardiac urology & Vascular should be available

System should be capable of scanning depth of 40cm or 400mm. Scanning Depth should be clearly mentioned in the technical quote If not mentioned Please attach a letter from manufacturer along with the technical bid clearly stating the scanning depth of 40cms in the offered system

System must be offered with an 2D frame rate should start 400 frames/second or more. Acquisition frame rate should be clearly mentioned in the technical quote If not mentioned Please attach a letter from manufacturer along with the technical bid clearly stating the frame rate of the offered system

	<p>System should have THI & 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</p> <p>The system should be upgradable to Contrast Harmonic Imaging and should have optimization settings to detect the Contrast Agents. Please specify other advanced Technologies to perform better Contrast Harmonic Imaging</p> <p>Automatic real time & frozen tracing of instantaneous peak velocity & instantaneous mean velocity (or frequency) should be available. Triplex Imaging should be standard on the system</p> <p>System should Contain Automatic optimization which adjusts TGC, B mode gain, baseline, PRF& Doppler gain.</p> <p>System should be provided with 2 adjustable sample lines for acquiring the spectrum of 2 vessels simultaneously</p> <p>The System should have Panoramic imaging and Trapezoidal imaging</p> <p>Omni Directional M Mode with 3 Cursors both in real time & on frozen image in all the probes, with M Mode cursor rotation of Complete 360 Degree, system should have provision of getting M-mode image from the stored B-mode image.</p> <p>System should be upgrade allow user to take 3D image using routine convex probe and Free hand 3D should be available in both convex and linear probe with color flow.</p> <p>The System should be Upgradable Strain based Elastography with Strain Graph</p> <p>Advanced Cardiac features to compare real time cardiac wall motions with the slow moving counterpart</p> <p>Advanced directional color Doppler to pick the difficult & small vessels without blooming artifacts.</p> <p>System should have upgradable softwares such as Stress Echo & Strain Imaging for Cardiac</p> <p>The system should have alphanumeric keyboard and touch screen minimum 10 inch or more.</p> <p>The System should be Upgradable to 4D with features like STIC, Realistic view available on the machine</p> <p>Strain Based Elastography should be available on the machine with all the mentioned probes</p> <p>ISO, CE/FDA Certificate should be there.</p> <p>System should be ready to Brachy therapy Grid Display for Prostate.</p> <p>Power requirements , System operates between 200 to 240V AC, 50Hz</p> <p>Power Consumption of the machine should not be more than 800VA</p> <p>Installation of the Air-conditioner should not be mandatory</p>				
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		<p>DICOM software should be standard on the machine</p> <p>II Required Probes</p> <p>1-5 MHz Broadband Convex Transducer for General Imaging, Abdomen, Renal, OB/GYN imaging . Must have Tissue Harmonic Imaging for excellent Image quality on Difficult to image patients . All probes should be suitable for Contrast Harmonic Imaging.</p> <p>1-5 MHz Broadband Single Crystal Cardiac Transducer for cardiac scanning. Must have Tissue Harmonic Imaging for excellent Image quality on Difficult to image patients .Please indicate THI in the technical datasheet of transducer.</p> <p>5 -13 Mhz Linear Array Transducer for Small parts and MSK studies</p> <p>3- 8 Mhz TV/TR Transducer for Early Pregnancy, Vaginal & Prostate Studies with minimum 200 degree viewing angle</p> <p>III. System should be supplied with the following peripheral devices :</p> <p>1. Thermal B/W Printer.</p> <p>2 . 2 KVA online UPS</p>			
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The quotations may be submitted in a sealed cover quoting the competitive rate with above specification by clearly mentioning taxes applicable if any., time required for supplying the items with the terms & conditions, Copy of GST

Wherever required Test Certificate should be sent along with relevant document.

Incomplete bids are liable for rejection. Late / delayed offer will not be considered.

NIUM reserves the right to reject any or all tender without assigning any reason.

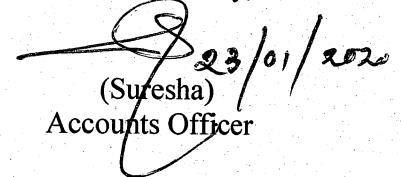
If the item is not supplied within stipulated period and not as per specification, NIUM is having right to accept or reject whole lot or part of it.

In case the items are not supplied in time, Penalty of 5% for delay upto 15 days from the last date & 10% beyond 15 days upto one month shall be levied. If the firm fails to supply the items as per Supply Order, the item will be procured from other bidder & the difference amount shall be recovered from the bill of the firm or otherwise.

The envelope containing quotation should be super scribed as **“Quotation for Supply & Installation of USG Color Doppler Machine for USG Unit in Hospital, NIUM”**

The last date for the submission of quotation is: 17 /02/2020.

Yours faithfully,


(Suresha)
Accounts Officer

Distribution :

1. Prof. S. Shah Alam, DMS, for information.
2. Website in-charge for information and to upload quotation in NIUM- website.
3. Concern file.
4. Guard file.