

**JAI PRAKASH NARAYAN APEX TRAUMA CENTRE
ALL INDIA INSTITUTE OF MEDICAL SCIENCE
RAJ NAGAR, NEW DELHI -110029.**

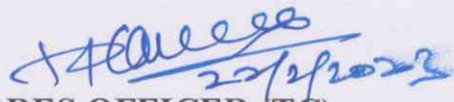
Ref. No. file no. 55/TC/PAC/Anesthesia/2022-23.

Dated:21.02.2023

**Subject: Purchase of High performance AI based point of care colour doppler
Ultrasound unit for the department of Anesthesia and CIC on
proprietary basis.**

A demand received from department of Anesthesia and CIC at JPNATC, AIIMS for the procurement of High performance AI based point of care colour doppler Ultrasound unit on proprietary basis. The product is proprietary product of M/s GE Healthcare. The PAC certificate from the firm as well as from the user department are attached and uploaded on website.

The above documents are being uploaded for open information to all, firms to submit the objections, with respect to proprietary nature of the product, if any within 15 days from the date of issue/uploading of the notification, giving reference no. **55/TC/PAC/Anesthesia/2022-23**. The comments should be sent to Sr. Stores officer, JPNATC (AIIMS) on or before 09.03.2023 upto 1:00 PM, failing which it will be presumed that any other vendor is having no comments to offer and the case will be decided on merit.


SR. STORES OFFICER (TC)

Encl: Related document enclosed

1. PAC Certificate form principal.
2. PAC Certificate form User Department

Technical specification For High Performance AI based Point of Care Colour Doppler Ultrasound Unit for ICU , Emergency , Trauma , OT and Pain Clinics

A state of art fully digital, compact portable Colour Doppler Ultrasound machine (weight <6.5 kg) is required with following technical features :-

Sl. No.	Technical Specifications
1	Should be top of the line and State of the Art fully digital compact portable ultrasound machine weighing less than 6.5 kg with provision for Doppler examinations
2	The unit should be compact, lightweight, full touch user interface with gesture recognition having multipurpose handle for probe, gel and adjustable rear support stand for use on flat surfaces.
3	Provided with high quality, compact stand with lockable wheels and should be having integrated three probe connectors from the same company
4	It should be suitable for abdominal, small parts, cardiac and vascular applications in both adults and pediatric patient.
5	Multiple preloaded as well as user configurable application presets should be available.
6	The system should have advanced measurement, manual and automatic for all applications.
7	System should offer Artificial Intelligence based Tools that includes Real-time EF, Auto VTI, Auto B-lines, Auto IVC and Lung Diagram Tool. AI Enabled Auto Tools should include as below:- <ul style="list-style-type: none"> • Real-Time EF is an AI*-enabled tool that continuously calculates real-time ejection fraction during live scanning in apical 4CH view. • Auto VTI: Calculates the velocity time integral (VTI), stroke volume, CO Flux and cardiac output in a single step. Like the other tools, it includes a quality indicator to assist with image acquisition. • Auto B-Lines: Highlights and counts B-lines in real-time. Hit freeze and system should display the frame with the highest B-line count. • Auto-IVC: Measures IVC collapsibility. IVC diameter changes (Collapsibility or distensibility index) are measured and displayed in real-time upon completion of each respiratory cycle. • Lung Tool: See all ultrasound lung findings in one view. Keeps track of segmental lung assessment. This is helpful in showing trends in response to therapy. • VTI Trending: to quickly visualize the trend and help and determine a next course of action in treatment. • eFAST diagram: for scanning, one-tap allocation and quick review of images and findings belonging to different zones of the eFAST and FAST exam.
8	Maximum scanning depth to be 30 cm or more.
9	The system should have simple user interface and a full screen mode to get a full screen view of the scanned area.
10	System should support transducer technologies like phased array, convex, linear, TEE etc.
11	All transducers should be lightweight digital, broadband and phased array in cardiac type transducers.

Handwritten signature

डॉ. कपिल देव सोनी / Dr. Kapil Dev Soni
 अतिरिक्त आचार्य / Additional Professor
 महान चिकित्सा विभाग / Critical & Intensive Care
 जय प्रकाश नारायण अग्निघात केंद्र / JPNA Trauma Centre
 अ.भा.आ.सं., राज नगर, नई दिल्ली-29
 A.I.I.M.S., Raj Nagar, New Delhi-29

डॉ. रिखा अग्रवाल / Dr. Richa Aggarwal
 अतिरिक्त आचार्य / Additional Professor
 महान चिकित्सा विभाग / Critical & Intensive Care
 जय प्रकाश नारायण अग्निघात केंद्र / JPNA Trauma Centre
 अ.भा.आ.सं., नई दिल्ली-29 / A.I.I.M.S., Raj Nagar, New Delhi-29

डॉ. अतिन कुमार / Dr. Atin Kumar
 आचार्य विकिरण चिकित्सा निदान / Professor of Radiology
 जय प्रकाश नारायण शीर्ष अग्निघात केंद्र / JPNA Trauma Centre
 अ.भा.आ.सं., राज नगर, नई दिल्ली-110029
 A.I.I.M.S., Raj Nagar, New Delhi-110029

12	Provision for three transducer connector having inter-switch ability between the transducers on the system without the need of manual disconnection
13	The system should an integrated high resolution TFT / LCD of 15 inches (flicker free images) or more touch interface to support thorough cleaning for effective infection control.
14	Should be supplied with three transducers (one each): <ul style="list-style-type: none"> • Broadband Phased array cardiology transducer: 1-4 (+/-1)MHz for cardiac imaging. • Convex array transducer: 2-6 (+/-1)MHz for abdominal imaging. • High Frequency Linear transducer with buttons: 5-12 (+/-1)MHz for vascular and small part imaging.
15	The system should have a frame rate of at least 600 frames per seconds (fps) in B mode and more than 300 fps in Color mode.
16	System must be offered with Speckle Reduction Imaging : Image processing technique to remove speckles and clutter artifacts
17	The Systems should have cine loop review facility of not less than 60 sec/1000 frames.
18	System should have 120 GB or higher capacity internal HDD.
19	The system should have the facility of digital storage and retrieval of B/W and colour image data.
20	Provision for USB port and LAN transfer of data should also be present.
21	The system shall support the all DICOM functionality, Storage, Print, and Work List, also ready to connect to PACS.
22	Imaging modes of Real time 2D, Colour, Pulsed wave, Continuous Wave and Power (energy) Doppler , Anatomical M-Mode should be available.
23	Controls for 2D mode: Total gain, depth, TCG, dynamic range, acoustic power output.
24	Controls for Colour Doppler: PRF, colour gain, position and size of ROI, steering of ROI, colour maps and colour invert.
25	Controls for pushed Doppler: variable sample volume size from 1 to 5mm or more, steer, PRF, baseline, gain angle correction, spectral invert duplex on/off.
26	Measurements for 2D mode: Multiple distances, area and volume.
27	Measurement for Doppler modes: Stenosis quantification in area percentage, Diameter, PSV, EDV, means, PI, RI, acceleration time and index. Automatic and manual measurements and display of pulsed Doppler calculations should be possible.
28	Unit should function with 200-240 V, 50 Hz AC, 5-amp power outlet power requirement to be specified
29	In built battery backup with battery run-time indicator, should minimum 2 hr scanning time or more.
30	System should have both Triplex and Duplex display and a wide range of probes, increases system versatility and adaptability to our clinical needs.
31	System should be having Enhanced Needle Tracking software.
32	The unit should be both United States Food and Drug Administration (FDA) and Conformity Europeans (CE) approved.
	Optional Transducer:-
	Hockey Stick Linear transducer: 7-17 (+/-1)MHz for vascular, small Nerve Block, MSK, Rheuma, ER (Pleural) part imaging for Pediatric and difficult cannulating patients.

Dr. Prakash Narayan
 Deptt. of Anaesthesiology
 Administrative-in-charge Anesthesia
 जय प्रकाश नारायण शीर्ष अग्निवात केंद्र / JPNA Trauma Centre
 अ.भा.आ.सं., राज नगर, नई दिल्ली-29/A.I.I.M.S., Raj Nagar, New Delhi-29

Handwritten signature

FAMIK

डॉ. कपिल देव सोनी / Dr. Kapil Dev Soni
 अपर आचार्य / Additional Professor
 गहन चिकित्सा / Critical & Intensive Care
 जय प्रकाश नारायण अग्निवात केंद्र / JPNA Trauma Centre
 अ.भा.आ.सं., राज नगर, नई दिल्ली-29
 A.I.I.M.S., Raj Nagar, New Delhi-29

Handwritten signature

डॉ. रश्मि अग्रवाल / Dr. Rishi Aggarwal
 अतिरिक्त आचार्य / Additional Professor
 गहन चिकित्सा विभाग / Critical & Intensive Care
 जय प्रकाश नारायण अग्निवात केंद्र / JPNA Trauma Centre
 अ.भा.आ.सं., नई दिल्ली-29/A.I.I.M.S., New Delhi-29

Handwritten signature

डॉ. अतिन कुमार / Dr. ATIN KUMAR
 आचार्य चिकित्सा निदान / Professor of Emergency
 जय प्रकाश नारायण शीर्ष अग्निवात केंद्र / JPNA Trauma Centre
 अ.भा.आ.सं., राज नगर, नई दिल्ली-110029
 A.I.I.M.S., Raj Nagar, New Delhi-110029

6



GE Healthcare Global Headquarters
500 West Monroe Street
Chicago, Illinois
www.gehealthcare.com

12 November 2019

To whom it may concern:

Venue Go™ ultrasound system is a proprietary product of GE Healthcare, 9900 West Innovation Drive, Wauwatosa, WI 53226, U.S.A. Venue Go is the latest addition to the Venue™ family of point of care ultrasound systems. To our knowledge, the Venue™ family is the first family of point of care ultrasound systems to include Artificial Intelligence (AI) based tools.

AI-based tools were developed to help simplify and accelerate patient assessments. Auto tools and other proprietary documentation features included on the Venue family products (Venue Go and Venue) include:

- Auto VTI
- Auto IVC
- Auto B-Line
- Lung Review
- eFAST diagram

GE Healthcare currently has over 30 patent families covering Auto Tools and other features included in the Venue family of products, including more than 20 families of patents specific to Venue Go. Again, these tools and features are proprietary to GE Healthcare. To our knowledge, the AI-based auto tools and proprietary documentation features available with the Venue family are not available from any other manufacturer at this time.

Sincerely,

Billy Zang, BS, RDMS, RVT, FSVU
Global Business Director, Point of Care Ultrasound

डॉ. ऋचा अग्रवाल/Dr. Richa Aggarwal
अतिरिक्त आचार्य/ Additional Professor
गहन चिकित्सा विभाग/Critical & Intensive Care
जय प्रकाश नारायण अभिघात केन्द्र/JPNA Trauma Centre
अ.भा.आ.सं., नई दिल्ली-29/A.I.I.M.S., New Delhi-29

डॉ. कपिल देव सोनी/Dr. Kapil Dev Soni
अतिरिक्त आचार्य/Additional Professor
गहन चिकित्सा/Critical & Intensive Care
जय प्रकाश नारायण अभिघात केन्द्र/JPNA Trauma Centre
अ.भा.आ.सं., राज नगर, नई दिल्ली-29
A.I.I.M.S., Raj Nagar, New Delhi-29

डॉ. गंगा प्रसाद/Dr. Ganga Prasad
अतिरिक्त आचार्य/Additional Professor
संवेदनहरण विज्ञान, पीन चिकित्सा एवं क्रिटिकल केयर विभाग
प्रशासनिक प्रणाली/JPNA Pain Medicine & Critical Care
Dept. of Anaesthesiology, Pain Medicine & Critical Care
Administrative/JPNA Anesthesia & Critical Care
जय प्रकाश नारायण अभिघात केन्द्र/JPNA Trauma Centre
अ.भा.आ.सं., राज नगर, नई दिल्ली-29/A.I.I.M.S., Raj Nagar, New Delhi-29

**ALL INDIA INSTITUTE OF MEDICAL SCIENCE
PROPRIETARY/SPECIFIC BRAND GOODS CERTIFICATE**

②

1. Item/Type Model No. Required along with specification
2. If the item a spare part attachment - or accessory for an existing equipment
3. Name of the manufactures/supplier of the item proposed by the indenter.
4. Are they sole manufacture/sold
5. If there any other item with similar Equivalent specification available in The market to meet the job requirement envisaged.
if the answer is yes, why the same can't be procured. Demanding officer should bring out comparative. Functional advantages/cost effectiveness of the recommended item from these offered by other.

- Venue G10 ultrasound system

NO

GE Healthcare

Yes

NO

6. What were the efforts made to - Located alternative source of supply or use other substitutes.
7. Why open/limited tender can't be resorted to, for locating alternative source.
8. Are the proprietary items certifying that the rates are reasonable or not.

The search of articles with similar specifications was performed on Internet. No other supplier was found which provides similar software specifications of USA machine & AI based Point of Care.

Yes.

9. Any other justification for procuring item from single source.

The machine is a High Performance AI based Point of Care ultrasound unit. patient management with better precision & Accuracy -

Signature of Indenter (Demanding Officer)

[Handwritten Signature]

(COUNTER SIGNED)
(Head of the Department)

[Handwritten Signature]
Dr. GANGA PRASAD
आचार्य / Professor
प्रशासनिक प्रभारी सचेतनाहरण तथा क्रिटिकल केयर विभाग
Deptl. of Anaesthesiology Pain Medicine & Critical Care
Administrative-in-charge Anesthesia & Critical Care
जुग प्रकाश मेनन
ए.एम.एस. राज नगर, नई दिल्ली-29/A.I.I.M.S., Raj Nagar, New Delhi-29

I certify that the item at Sr. No. 1 above is required to be procured single tender basis as the source of supply is definitely known the specified brand proposed was advantages in meeting our functional requirements and limited tender system could be dispensed with as they would serve no useful purpose in this particular case.

(Strike out whichever is not applicable)