

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES  
ANSARI NAGAR, NEW DELHI-29.**

**STORES SECTION (DO)**

**Ref. No. 35/Stores (DO)/Physio/PAC/2017-18/FSC**

**Dated-20/11/2017**

**Sub:- Purchase of Automated Vascular Ultrasonographic image and flow Analysis system” for the Department of Physiology, (AIIMS), New Delhi-110029, on proprietary basis Inviting comments thereon.**

**\*\*\*\*\***

The Institute is in the process to purchase **Automated Vascular Ultrasonographic image and flow Analysis system** for the department of Physiology, (AIIMS), New Delhi from **M/s. Medical Imaging Applications, Coralville**. The PAC Certifications by M/s. Medical Imaging Applications as well as the user department are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within 15 days from the date of , issue/uploading of the notification giving reference No. **35/Stores(DO)/Physio/PAC/2017-18/FSC**. The comments should be received in office of Stores Officer (FSC), Store Section (DO), Animal House Building, Near Biotechnology Building at AIIMS on or before **06/12/2017** upto **12.30 p.m.** failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

**Yours faithfully,**

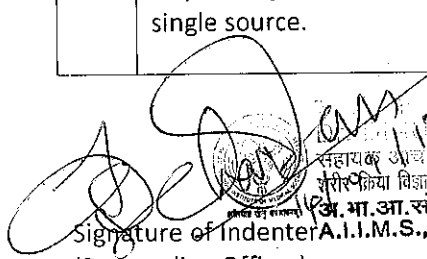
  
**STORES OFFICER (FSC)**

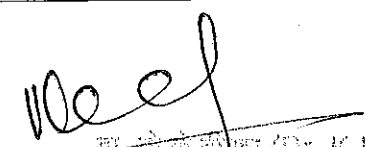
**Encl: Related documents enclosed.**

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES  
ANSARI NAGAR, NEW DELHI - 110029**

PROPRIETARY / SPECIFIC BRAND GOODS CERTIFICATE


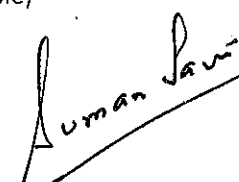
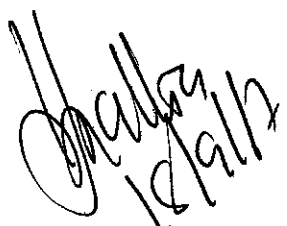
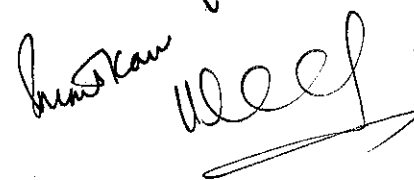

1	Item/Type/Model No. required along with specification	Top Performance Vascular Analysis Integrated System with Imager Model designation: VW-T-BCfdRIEGTF-09-17 (specification attached)
2	If the item a spare part attachment or accessory for existing equipment	No
3	Name of the manufacturers/Supplier of the item proposed by the indenter.	Medical Imaging Applications LLC Coralville, Iowa, USA
4	Are they sole manufacturer/sole distributors of the item.	Yes (certificate attached)
5	If there any other item with similar/equivalent specification available in the market to meet the job requirement envisage. If the answer is yes, why the same comparative functional advantage/cost effectiveness of the recommended item from these offered by other.	No
6	What were the efforts made to locate alternative source of supply of use other substitutes	Through search of published scientific literature, manufacturer websites and e-commerce websites.
7	Why open/limited tender can't be resorted to, for locating alternating source.	To the best of our knowledge, no equipment from alternate source is available.
8	Are the proprietary items certifying that the rates are reasonable or not.	Vendor provides 30% discount for educational institutions. Price reasonability certificate attached.
9	Any other justification for procuring item from single source.	The only item available that meets the essential technical specifications and has FDA approval for clinical applications.

  
 सहાયक आयुक्त, रजिस्ट्रार जनरल  
 शरीर क्रिया विज्ञान विभाग/Deptt. of Physiology  
 अ.भा.आ.स., नई दिल्ली-110029  
 Signature of Indenter A.I.I.M.S., NEW DELHI-110029  
 (Demanding Officer)

  
 प्रमुख, शरीर क्रिया विज्ञान विभाग/Professor & Head  
 अ.भा.आ.स., नई दिल्ली-110029  
 (Counter Signed)  
 (Head of the Department)

I certify that the item at S. No. 1 above is required to be procured on single tender basis as the source of supply is definitely known/the specific 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)

Medical Imaging Applications, LLC  
832 Forest Hill Dr., Coralville IA 52241  
phone: (319) 358-1529  
e-mail: sales@mia-llc.com  
FEIN: 42-1517768

**Medical Imaging Applications**

# Memo

**To:** To whom it may concern

*Milan Sonka*

**From:** Milan Sonka  
phone: (319)-358-1529,  
e-mail: sales@mia-llc.com

**CC:**

**Date:** 9/14/2017

**Re:** Sole source manufacturer

## ***Sole-source Manufacturer / Distributor statement***

This memo states that Medical Imaging Applications LLC is a sole source manufacturer of the following vascular ultrasound analysis tools and devices: Brachial Analyzer for Research

- Brachial Analyzer for Research
- Carotid Analyzer for Research
- Doppler Flow Analyzer for Research
- Vascular HD Imager
- Software gating for BA
- End-diastolic gating for Terason 3000 AVI data
- Carotid Analyzer for Research
- Vascular DICOM module
- DICOM-server functionality DCS 6
- Vascular Tools for Research
- Vascular Tools for Clinical Care
- Vascular EKG Gating module
- Vascular Analysis Workstation Integrated Systems VW-H and VW-T, including
  - VW-T-BCfdRIEGTF-09-17
  - VW-H-BCfdRIEGTF-09-17

Medical Imaging Applications LLC is the sole-source manufacturer of FDA-certified products – Vascular Tools - for brachial endothelial function analysis via determination of brachial FMD and for carotid intimal-medial thickness from images and image sequences. To the best of our knowledge, no other research oriented or FDA-certified products are commercially available to serve this purpose in both ultrasound vascular images and image sequences.

Medical Imaging Applications LLC is the sole distributor of Vascular Tools for Research (modules listed above) and of FDA-approved Vascular Tools 5 (for patient care).

*Milan Sonka*  
9/14/17  
*WEE*

Name of the equipment: **Automated Vascular ultrasonographic image and flow analysis system**

Quantity: 1

Estimated price: 30 Lakhs

The system should be able to:

1. Acquire and digitize images in real time directly from the ultrasound system using frame grabber or direct digital data input module with following specifications:
  - a. Bit resolution not less than 8 bits per pixel
  - b. Support for video modes up to 1920 x 1200 pixels
  - c. Frame rate not less than 30 frames per second for any given video resolution
2. Time gate the images based on ECG signal.
3. Analyze the acquired images & loops in both online (real time) and offline modes for:
  - a. Brachial artery—
    - i. Use image identification algorithms for automated edge detection of media-to-media interface.
    - ii. Continuous automatic measurement of brachial artery diameter from media-to-media for selected duration of loops or sequence of frames
    - iii. Automatically calculate peak diameter and time to peak in Flow mediated dilation (FMD).
  - b. Carotid artery –
    - i. Use image identification algorithms to automatically detect intima-to-media thickness (IMT).
    - ii. Perform IMT measurement on both near and far walls of common carotid, internal carotid and carotid bifurcation
  - c. Flow analysis –
    - i. Automatically detect the beat-to-beat Doppler spectral waveform.
    - ii. Calculate the systolic, diastolic and mean velocities of blood flow for each flow pulse using area-under-curve approach.
  - d. Central and Peripheral arterial distensibility –
    - i. Automatically detect the maximum and minimum arterial diameters for each cardiac cycle and calculate the arterial distensibility for peripheral arteries.
4. Perform the analysis described in point 3 on pre-acquired images/cine loops in the following formats:
  - a. DICOM
  - b. JPEG
  - c. AVI
5. The vascular analysis system should have a patient data entry system for recording, storing and retrieving information of individual patients.
6. Export processed data in EXCEL format for research related data analysis.
7. Software should be integrated in a branded PC with following specifications:
  - a. Intel i-7 processor
  - b. 12GB RAM
  - c. 1TB Hard Disk
  - d. LCD/LED color monitor of size not less than 32 inches
8. Software modules for FMD and Carotid IMT measurements should have FDA approval for clinical application.
9. System should be compatible with existing ultrasound machine in the lab (Model: Vivid e Make: Wipro GE healthcare Ltd. Singapore)

Aman Jaisi  
Aman

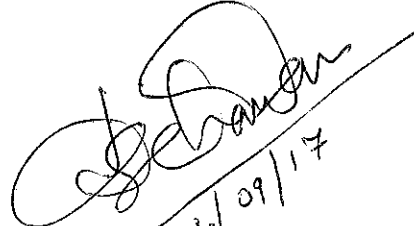

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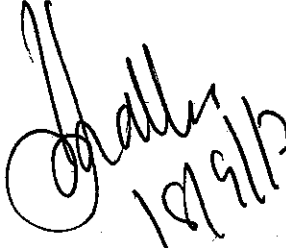
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10. Five-year warranty as per AIIMs norms and provision for free upgradation of software for 5 years post-installation
11. Annual comprehensive maintenance should be provided for 5 years post-expiry of warranty period.


It is certified that specifications are broad based and general ins respect to the requirement and not to suit any particular firm/brand

\*\*\*

  
14/09/17  
  
डॉ. दीनू एस. चन्द्रन  
Dr. DINU S. CHANDRAN  
सहायक आचार्य/Assistant Professor  
शरीर क्रिया विज्ञान विभाग/Deptt. of Physiology  
अ.भा.आ.स., नई दिल्ली-110029  
A.I.I.M.S., NEW DELHI-110029

Aman Sar-  
  
18/9/17

Amir

Reshmi  
  
Rahul Kan

Deep  
18/9/17