

All India Institute of Medical Sciences

Jodhpur

Admn/Prop/61/2019-AIIMS.JDH

Dated: 30th November 2019

Subject: Purchase of 3D-Isocentric Mobile Imaging System with Flat Panel Detector for the

department of Neurosurgery at AIIMS, Jodhpur on proprietary basis - **Inviting comments thereon.**

The Institute is in the purchase of 3D-Isocentric Mobile Imaging System with Flat Panel

Detector for the department of Neurosurgery at AIIMS, Jodhpur from M/s Ziehm Imaging GmbH,

Donaustrasse 31, 90451, Nuremberg, Germany on proprietary basis. The proposal submitted by M/s

Ziehm Imaging GmbH, Germany and PAC certification by user are attached.

The above document are being uploaded for open information to submit objection,

comments, if any from any manufacturer regarding proprietary nature of the equipment within

21days of issue giving reference Admn/Prop/61/2019-AIIMS.JDH. The comments should be

received by office of Administrative Officer, Medical College at AIIMS, Jodhpur on or before 20th

December 2019 upto 03:00 PM 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,

Administrative Officer

Enclosed: Related documents enclosed.



All India Institute of Medical Sciences Jodhpur



Ziehm Smaging Grobit | Donaustrasse 31 | 90451 Nuremberg | Cermony To whom it may concern

Nuremberg, 6-Feb-19

PROPRIETARY CERTIFICATE

Dear Sir or Madam.

This is certifying that C-arm system model Ziehm Vision RFD 3D system is the proprietary item of Ziehm Imaging GmbH, Donaustrasse 31, 90451 Nuremberg, Germany.

Our Ziehm Vision RFD 3D has three special items. The first following two items are the patents incorporated in our model and the third is an iterative algorithm especially for this model.

- 1) SmartScan
- 2) Variable Isocentric Movement
- 3) Ziehm Iterative Reconstruction

Yours faithfully,

Nuremberg, 08. 02.

Nuremberg, 06, 62. 2019

Telefon +49 (0) 911 2172 01 Telefax +49 (0) 911 210

Mail: info@ziehm.com I www.zieł Stephan Dippold Managing Director Ziehm Imaging GmbH

Martin Tornvik VP Global Sales & Marketing

Ziehm Imaging GmbH

Zehn Imaging Griter | Dossutraser 31 | 90451 Kuremberg | Germany | F +49 |2] 911.21 72-2 | F +49 (0) 911.21 72-706 | infu@rehn.com | sees Cestache flank | Bank Rousing No. 700 700 10 | Account No. 936 656 300 | SWIFT-63C. | CEUTDEHNICOX | IBAN DE21 7037 0361 9066 6563 60 Postbank | Bank Rousing No. 860 100 90 | Account No. 403 554 900 | SWIFT-63C. | PONK DC FF 860 | IBAN D033 8601 0090 6490 5549 60 UNICHEST Bank - Hypotherestates E (Bank Roulling No. 700 303 76 | Account No. 100 317 17 | SWIFT-NCC. HYVE DIL HM XXX | SRAN 5615 7000 0270 0010 0217 17 VXT Na. DE 133 543 703 | Registry Court of Hummberg, Corner. Reg. No. 5615 | WCCC-Reg. Nr. DC 225 636 19 | Hersiging Directors: Kleine Hörnder, Skephen Dippoli

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Tender for 3-D C-Arm with Image Intensifier System with Flat Panel Detector

S.No	Item	Annexure-I	
01.	The second secon	Technical Specification	L
01.	3-D C-Arm with Image Intensifier	State-of-the-Art, Compact, Easily Transportable, Digital Mobile C-Arm X Ray Unit with Flat Panel Detector. The system should have the following essential features	
	System with	THE DEPOSIT OF THE PARTY OF THE	
	Flat Panel	1. Generator and X-ray Tube:	
	Detector	Generator should be microprocessor controlled with the following modes: i. 2D Normal Fluoroscopy, Pulsed Fluoroscopy.	
		ii. 3D Imaging (MPR, MIP) iii. Digital Radiography mode (Snapshot).	
		X-ray Generator should be minimum 20 KW or more.	
		The range of KV should be 40-120 KV for each mode. Tube Current should be up to 2000.	
- 1		Tube Current should be up to 200mA or more. The Generator should be capable of providing, Pulse	
		X-ray tube Housing Heat Capacity should be minimum of 5	
		MHU or more for protracted pro-cedures	
		X-ray tube should have a: - i. Dual Focal spot of minimum 0.3 / 0.6 or better (for	
		Fluoroscopy and Radiography)	
		 Nominal X-ray tube voltage 100 KV or more. 	
		III. Inherent filtration Al equivalent Please mention additional filters available.	
		iv. Automatic Dose Control.	
		 Collimator unit: Shutters / Diaphragm for symmetric radiation free collimation (Virtual Collimator) should be available. 	
	The state of the s	2. C- Arm:	
		The C-Arm depth should be 65 cm or deeper and Free space should be 80 cm or more to pro-vide a large imaging space and C-	
		The C-Aim should have Orbital rotation of 160° or more to allow	
		The C-Aim should provide side to side (wig-wag) and horizontal	
		The C-arm should be motorized in orbital, Angular, Horizontal and vertical movement, (please mention the specifications)	
		The motorized C-arm should be controlled by Control panel (touch screen or joystick control) The C-arm should have memory to storage of positions (orbital & angulations) minimum 3 or more	
		Motorized Home Position should be available.	
		Collision Protection for patient safety should be available The motorized movement has to start in the safety should be available.	
		 The motorized movement has to stop immediately before touching the patient or object should be available. 	
	/	Flat Detector System The system should have a Flat Panel Detector of 1.5k x 1.5k	
	1/	resolution and minimum noise. • The size of the detector should be minimum30 x 30 cm or more	
	st /	The pixel size should be 200 micron or less.	
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Tender for 3-D C-Arm with Image Intensifier System with Flat Panel Detector

4. Monitor Cart:

The system should be equipped with two high resolutions 18" LCD/TFT monitors with Image ma-trix at least 1024 X 1024.

5. Digital System & Image Management :

- Must be Fully Digital Continuous Imaging Chain for Acquisition, Processing, Storage, Archiv-ing & Documentation.
- The system should possible to enter the patient data and for image annotation etc.
- The system should have multi patient data base for handling large quantities of image including Dose Management Report.
- The system should Automatically select proper imaging parameters.
 kVp and mA during imaging, but also provide the user to over-ride these settings manually.
- · Should provide anatomical mode for different anatomical parts.
- Real time and Automatic Brightness and Contrast should be provided to optimize displayed image.
 Digital image processing up to 30 bit or more
- · Touch screen control panel would be preferable.
- · Annotation, measurement of angles and distances.
- · Video output.
- · There should be no interference from terrestrial magnetic field.
- Disk storage of minimum of 60,000 2D images in at least 1K X 1K matrix
- Touch screen control panel Should be available in c-arm cart & Monitor cart.
- OT table side (Side rail mounted) Third touch screen control panel should be available.
- Multi-Functional foot switch with additional functionality should be available.
- · Trigger for pressure injector should be available in the system.
- Laser Positioning device should be available in Flat Panel detector for dose reduction.

6. 3D Workstation.

- Should be provide 3D Workstation with necessary hardware & following software:
- · Anatomical program for different anatomy parts.
- 3D Visualization with multiplayer reconstruction(MPR) & Volume Rendering.
- Slice planes: Axial, Coronal, Sagittal should be available.
- 3D volume should be minimum of 15cm cubic or 15cm cylindrical volume.
- 3D volume resolution should at least 256 voxels or more.
- 2D Cine loop of 3D acquisition should be available.
- · 3D acquisition time should not be more than 50 seconds.

7. Image Processing:

The following options should be available for Live and Post Image Processing.

- The system should provide a Last Image Hold Capability that the last image is displayed on the active monitor after the termination of an exposure.
- The system shall allow the user to change the Image Orientation on

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the display screen during live exposure or using the last image hold. Those functions include image rotation, left to right and top to bottom image reversals.

 Recursive filters, Edge Enhancement, Windowing Level adjustment, Grayscale inversion, Digi-tal Collimators, Zoom 3 Level,

8. Image Documentation: .

The unit should be advanced DICOM enabled. Should be possible to archive images on USB port (Format: DICOM & JPEG, Multimedia.)

9. Essential Accessories:

- Online UPS of 10 KVA or more with at least 30 minutes back up for the complete C-aim.
- · Zero Lead Aprons (light weight): 4 Nos.
- · Thyroid Shield: 4 Nos.
- · Gonad Shield: 4 Nos.
- · Lead Spectacles: 4 Nos.
- Sterile covers (2 set reusable) for C-Arm, X-ray tube and Flat Panel Detector.
- Height & Weight: The system should be minimum weight, compact size & Easy to transport.
- 11. DSA function should be fully funtional.
- 12. DSA Injector Should be provided.
- Other Features: Quoted equipment should meet European CE and USA FDA approval stand-ards.
- 14. The system offered should have AERB NOC / Type approval.
- 15. Company should quote Optional accessories and Consumables if any.

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