

INDIRA GANDHI MEDICAL COLLEGE, SHIMLA

Phone No.0177-2804251, 2883401, Fax.0177-2658339, 2808011

No. HFW/ME (MCS)G(3)-(Purchase)-(Radiology)-(DSA)-

Dated 23/10/17

CORRIGENDUM

This is in continuation of earlier Tender notice for the purchase of Biplane DSA machine to Radiology Department of this institute published vide letter No. No.HFW/ME(MCS)G(3)-(Purchase)-(Radiology)-(DSA)-15494-500 dated 11-09-2017 and consequent upon pre-bid meeting held on 03-10-2017 at 2:45 PM in the office of undersigned, the tender terms & conditions and original specifications in respect of Biplane DSA Machine be treated as amended and final specification may be treated as incorporated in the website of IGMC i.e www.igmcshimla.org. under clause A, B & C. Further, it is also clarified that last date for opening of tenders for DSA will now be as 14th November, 2017 at 3.00 PM in the office of undersigned.

Dr Ashok Sharma
Principal
IGMC Shimla
Dated:-

No. As above

Copy forwarded for information and necessary action to:-

1. The Director Public Relation Officer, Shimla 171002 HP
2. The Director Medical Education & Research, Himachal Pradesh, Shimla-9.
3. The Controller of Stores, Himachal Pradesh, Shimla-1.
4. All the Members of Technical Committee, IGMC Shimla
5. Mrs. Sunita Bhatia, Telemedicine department, IGMC Shimla for uploading the above Corrigendum in IGMC's website
6. Notice Board.
7. The interested tenderers.

Principal
IGMC Shimla

Revised terms and condition of Financial, Commercial, Technical Bid and Turnkey

A. Revised terms and condition of Financial, Commercial bid.

1. Rates to be quoted in US Dollar.
2. However, rates are to be quoted in INR only in respect of all the indigenous material/works/ turnkey projects.
3. Payment will be made in the ratio of 80:20 through LC.
4. Condition no 1.6. be read as “ The bidders will not form a part of the cartel and will not put in supporting quotations for some other company.”
5. EMD to be submitted in shape of FDR/ Bank Guarantee of Nationalized Bank to be pledged in favour of Principal IGMC Shimla .
6. Clause No 19.1 the tenure of 12 years below read as 10 years.
7. Under clause No 21.1. the time period may be read as 90 days.
8. Under clause No 21.2. time period may be read as 60 days.
9. Uniform guaranty warranty period in the tender document may be read as five years followed by CMC of 5years.
10. The last date for opening of tender is extended to 14th November, 2017 at 3.00PM in the office of Principal IGMC Shimla.

B.-Technical Specifications of BIPLANE DSA

	Existing Tender Specifications	Revised Tender Specifications
Intro para	System must be Di-com-3 standard compatible and should be able to transfer the images on to an ordinary computer	System must be Di-com-3 standard compatible and should be able to transfer the images on to a computer
Intro para	The future software up gradations should be provided in the offered machine, as and when launched by the company without any additional cost for a period of 5 years after handing over of the system.	The future software updates should be provided in the offered machine, as and when launched by the company without any additional cost for a period of 5 years after handing over of the system.
B	Table	Table side control for 3D reconstruction
3	Patient Table: Table should have trendlenburg tilt facility	Line may be read as “Specify the availability of tredenlenburg tilt”
D	Tube	At least one of the tubes should provide 80KW output.
F 3	Size of lateral plane should be at least 40 cm diagonal	Size of lateral plane detector should be at least 39 cm diagonal
F7	24 inch physiology monitor in console	19 inch physiology monitor in examination

	room with the requisite computer system for BP,Pulse,Temp.,Respiratory rate, NIBP, IBP, SpO2 measurement, display and analysis.	room with the requisite computer system for BP,Pulse,Temp.,Respiratory rate, NIBP, IBP, SpO2 measurement, display and analysis with slaving in console room
G2 &	It should have the capability to acquire images in 2048 X 2048 matrix with a maximum speed of 6 frames or more per second on-line subtraction. Specify the maximum image acquisition rate without subtraction.	It should have the capability to acquire and post process images in 1024 X 1024 matrix with a maximum speed of 6 frames or more per second on-line subtraction. Specify the maximum image acquisition rate without subtraction.
G16	Minimum 30 seconds for uninterrupted acquisition of on-line subtracted images at 2048 x 2048 matrix with maximum frame rate.	Minimum 30 seconds for uninterrupted acquisition of on-line subtracted images at 1024 x1024 with maximum frame rate.
G4b		<p>Add:</p> <ul style="list-style-type: none"> a. It should be possible to have CT like imaging with collateral filling to see the lesion with ischaemic stroke patient for immediate care with intra-venous injections. b. The system should have latest imaging processing software to have excellent quality at lower case. c. CT images for visualization of device/stent and flow diverters and for feeder vessels in area of tumour.
G 8	A separate workstation for 3D reconstruction of the rotational angiography images should be provided. The 3D image measurement and slicing should be possible. Facility to display reconstructed images in the procedure room should be provided.	Deleted
G11	Archiving on Juke box/RAID (20TB) and 5000 CD's rewritable or 1000 DVD should be supplied with the unit along with CD/DVD recorder should be provided.	20 TB storage/server which is to be integrated with existing departmental PACS along with increase in its storage capacity to 10 TB. 5000 CD's rewritable or 1000 DVD should be supplied with the unit along with CD/DVD recorder
G		<p>Add:</p> <p>Body and neuro perfusion</p>

E	Collimator	<ul style="list-style-type: none"> a. The system should have positioning of collimator blades without radiation. b. It should be possible to create and print the DICOM based dose report of the patient. c. The system must have latest software / hardware packages for radiation safety of operator and patient as per Atomic Energy (Radiation Protection) Rules 2004. (Please specify the Radiation safety package being offered)
H21	<p>Portable USG machine with following specifications: The unit should be state of the art ceiling mounted digital colour Doppler with following probes:</p> <ul style="list-style-type: none"> a) Convex probe 2 – 4 MHz (\pm 1 MHz). b) Linear array probe 4 – 10 MHz or more (\pm 1 MHz). c) Wide band micro convex probe 4 – 10 MHz (\pm 1 MHz)(small foot print) 	<p>Portable USG machine with following specifications: The unit should be state of the art with digital colour Doppler with following details:</p> <ul style="list-style-type: none"> 1) Monitor size should be at least 15 inches 2) Multi port connectivity with selection of probes from console 3) Display of USG images in the lab. Monitor 4) Fusion of live angiographic images with USG images 5) Probes: a) Convex probe 2 – 4 MHz (\pm 1 MHz). b) Linear array probe 4 – 10 MHz or more (\pm 1 MHz). c) Wide band micro convex probe 4 – 10 MHz (\pm 1 MHz)(small foot print) <p>System should be US FDA and European CE approved.</p>
	<p>WARRANTY The equipment should have warranty for a period of 5 years from the date of handing over the fully functional unit with all accessories supplied (such as UPS, AC, pressure injector and all third party items etc) to the dept. of Radio- diagnosis, IGMC, Shimla. The vendor should take care of day to day running of UPS, AC etc.</p>	<p>The equipment should have warranty for a period of 5 years from the date of handing over the fully functional unit including X ray tubes with all accessories supplied (such as UPS, AC, batteries, pressure injector and all third party items etc) to the dept. of Radio- diagnosis, IGMC, Shimla. The vendor should take care of day to day running of UPS, AC etc.</p>

		Period of warranty will be 5 years & period of CMC will be 5 years.
		All the vendors have to provide list of installations of the quoted model in India.
	Accessories	Add: Supply one radiation survey meter of Fluke/ RTI make or equivalent.

C-Turn Key: Turnkey for Biplane DSA System

The project is to be executed on a turnkey basis in active consultation with the faculty of the Department of Radiology and Dept of Engineering (civil & electrical) of IGMC.

The vendor must visit the site, at their own cost, before they submit their quotation for the turnkey and give a certificate that the proposed site is suitable for installation of DSA system. Before submitting their bids, the vendor has to submit the proposed layout of the DSA section according to the requirements of the department and with active consultation of technical committee without fail. All the turnkey work has to be done according to AERB guidelines. AERB site approval will be responsibility of the company.

The Biplane D.S.A centre shall consist of the following rooms and all the rooms / facilities have to be equipped with all necessary civil and electrical works required for smooth functioning of the DSA section.

- a) Biplane D.S.A Room (Procedure room). It should have separate entrances for patient transportation and for technical personnel, usually from the control room
- b) Console Room
- c) Equipment Room
- d) Patient preparation room
- e) Patient recovery room with space for at least 4 beds and nursing station.
- f) Non vascular intervention room with C Arm, RF Ablation & USG.
- g) Change rooms for male and female staff.
- h) Scrub area, catheter wash area with foot operated hands free scrub unit with disinfectant/soap solution
- i) Consultant room.
- j) Reporting Room
- k) Store
- l) Wash Room for staff

This project involves installation of the new DSA equipment with all necessary accessories, civil, mechanical and electrical work to facilitate the commissioning of the equipment and the same shall be at the supplier's cost and risks if any. The institute however, will provide the site for the turn key project and main electrical supply upto the equipment room. The road map for turn key project and equipment should be provided in words and as

bar diagram presentation. Clearly specify the time to be taken for completion of turn key project and installation and commissioning of the machine commencing from the date of getting the final order. In case of not meeting the final time schedule, a penalty will be imposed at a rate of 25,000 rupees per day on the defaulting firm.

-The air conditioning system for the whole DSA section. Ductable package air conditioners and split AC units may be used according to room requirement and suitability. The outdoor units of AC should have grill covering.

-Two view boxes (each accommodating at least three films of 14x17) which should be thin & compact, should be flicker free and of high luminous density of at least 6500 cd, with shutters and electronic dimmer.

-The flooring shall be done with 600X600 high density mat finish vitrified ceramic tiles.

-The walls of Procedure room, Catheter wash/ scrub room, wash room and Non vascular intervention room shall be finished with high density ceramic vitrified tiles 600 X 600 mm upto false ceiling height.

-The false ceiling shall be of perforated aluminum panel with acoustic/ thermal lining.

- The general lighting with mirror optic lights-LED type should be used. The switches will be modular Anchor Roma make or equivalent.

-Telephone wiring along with sockets for each room.

-Conduits for DICOM and PACS system and existing wiring of LAN cable for HIMS.

- Fire sensor and alarm system of ISO 9002 quality.

-Quality of water supply GI pipes should be of Jindal make or equivalent. The sanitary fixtures/ fittings should be of superior quality.

- Aluminum doors windows and grills of minimum 10 gauge.

- Cabinets should be made of 19mm thick water proof commercial board finished with 1 mm thick lamination of approved shade with hard wood edging.

- Electrical wires of ISO 9002 multicore type of PVC copper.

- Furniture **All furniture items should be of standard make**

- a) Revolving chairs height adjustable, medium-back with hand-rest in the Control room, Consultant room and viewing area. – 10Nos
- b) Wall mounted shelves for catheter and other procedural hardware – 4 Nos.
- c) Cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement.
- d) Drug trolleys 1 numbers for patient preparation area.
- e) Patient trolley with rubber foam mattress to be kept in the patient preparation room.

- f) Signage for DSA section.
- g) Tables for Workstation and Radiologist in reporting room.- As per requirement
- h) Changing rooms should have lockers and dressing table.
- i) Dustbins (plastic with lid) to be provided as required.
- j) Foot controlled hand free two station scrub unit with disinfectant/ soap dispenser.

Any additions and alterations as and when required during the turn key work will be done by mutual discussion between the supplier and technical committee. The whole turn key has to be done to the fullest satisfaction of the technical committee and engineering dept (Civil& Electrical) IGMC. In case of any difference of opinion the decision of the technical committee shall be final and binding on the supplier.

If the technical committee or Engineering wing of IGMC desires to make any addition /alterations, the vendor has to abide by their decision.

LIST OF ITEMS AND SUGGESTED MANUFACTURERS

ITEMS WITH PREFERRED MAKES:

- A **FLOORING VITRIFIED TILES** - Somany, Kajaria , H&R, Johnson, RAK india
- B **PAINT** - Dulux, Asian Paints , Nerolac
- C **PLUMBING** - Kohler, Jaguar , Grohe , Roca
- D **SANITARY ITEMS** - CERA, Hindware, Parryware
- E **ELECTRICAL**
- 1 **CABLES** - Finolex, Havells ,V-Guard
- 2 **SWITCHES** - Legrand, L&T, Crabtree , Roma
- 3 **DISTRIBUTION BOX , MCB** - Legrand, L&T, Siemens, Havels
- 4 **LIGHT FITTINGS** - Philips / Crompton / Wipro/Syska
- F **AIR CONDINTIONING** - Daikin, Hitachi, Blue Star, Voltas,
- G **FURNITURE** - Hermen Miller , Godrej , Featherlite,Geeken

(Dr Ashok Sharma)
Principal
IGMC, Shimla

