



अखिल भारतीय आयुर्विज्ञान संस्थान, रायपुर (छत्तीसगढ़)
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No. Admin/CT-Scan/2013-AIIMS-RPR

Raipur, the 16TH August, 2013

Corrigendum for 64 Row detector MSCT

After pre bid meeting with the bidders, the following corrigendum is being issued for 64 Row Detector MSCT in AIIMS Raipur on Turn Key Basis.

Last date of submission of bid is extended to 02-09-2013

CORRIGENDUM IN COMMERCIAL SECTION

S.No.	Page / Clause point	Existing parameter	Correction
		Bid Security /EMD asked for is in the form of DD/FDR	EMD in the form of DD/FDR/BG (Bank guarantee)
SectionII - C Instruction to Bidders-Preparation of Bids	Clause 10.1- Bid form	The signing of Bid Form shall commit the Bidder to supply the ordered goods to the purchaser within 12 weeks of placing such order.	The signing of Bid Form shall commit the Bidder to supply the ordered goods to the purchaser within 15 weeks of placing such order.
	Clause 15.1	Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, the bid security which shall be Rs. 18.00 Lakhs (Rs. Eighteen Lakhs). DD/F.D.R. should be attached.	Persuant to ITB clause 9, the Bidder shall furnish as part of its bid, the bid security which shall be Rs 18.00 Lakhs (Rs Eighteen Lakhs). DD/FDR/BG should be attached.
SectionII - C Instruction to Bidders-Preparation of Bids	Clause 17.1 (1), (2)	(E.M.D. in the form of F.D.R./DD only).... The Bidders shall submit their Earnest Money Deposit as usual in a separate physically sealed Envelope. DD/Fixed Deposit for 12 Months as bid security which shall be Rs. 18.00 Lakh (Rs. Eighteen Lakhs only) tendered for as E.M.D. issued by Nationalized bank in the name of the AIIMS, Raipur, payable at Raipur (refundable).	The Bidders shall submit their Earnest Money Deposit as usual in a separate physically sealed Envelope. DD/Fixed Deposit for 12 Months / Bank guarantee as bid security which shall be Rs. 18.00 Lakh (Rs. Eighteen Lakhs only) tendered for as E.M.D. issued by Nationalized bank in the name of the AIIMS, Raipur, payable at Raipur (refundable).
SectionIII GCC Payment	Clause 14.4	Payment shall be made in Indian Rupees.	Payment shall be made in Indian Rupees. For payment for goods of foreign origin, if required, a letter of

			credit account will be opened in favour of successful bidder with the currency in INR.
Section III GCC Termination for default	Clause 21.1	The penalty would be as under: a. First extension 71 st day thereof from the date of issue of supply order – 3% of supplied ordered item. b. Second & maximum after 85 days from the date of issue of supply order – 5% of supplied ordered item. c. The order will be deemed cancelled after expiry of 90 days from the issue date.	The three conditions a, b & c would be replaced by - “The penalty would be 0.5% of value of delayed goods/services per week will be levied as LD”
Section IV -SCC	Clause 8.4, 8.5 & 8.6	Payment for goods and services shall be made in Indian Rupees as follows:- 8.4:- 50% of the purchase order value will be released after presentation of the shipping documents & inspection of the equipment and accessories at the site of installation. 8.5:- 30 % of the purchase order value will be paid after the successful completion of the installation and commissioning of the equipment including accessories. 8.6:- 20 % of the purchase order value will be paid within 6 months from the date of installation & successful operation of the equipment after commissioning and clearance of inspection note jointly signed by authorized end-user and by the vendor.	Payment for the goods and services will be done as follows: A) Payment for domestic goods or Foreign Origin Located within India. Payment shall be made in Indian Rupees as specified in the contract in the following manner: <u>On delivery:</u> Seventy five 75% payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents: a. One original and four copies of supplier’s invoice showing contract number, goods description, quantity, unit price and total amount; b. Consignee Receipt certificate in original issued by the authorized representative of the consignee; c. Two original copies of packing list identifying contents of each package; d. Inspection certificate issued by the nominated inspection agency or the committee appointed by the purchaser if any e. Appropriate Insurance Certificate f. Certificate of country of origin. <u>On Acceptance:</u> Balance twenty five (25%)

			<p>payment would be made against original 'Final Acceptance Certificate' issued by the designated committee to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.</p> <p>B) Payment for Imported goods Payment for foreign currency portion shall be made in the currency as specified in the contract in the following manner:</p> <p>a) On shipment: Seventy five (75%) of the CIP price of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of documents specified hereunder:</p> <ul style="list-style-type: none"> i. One original and four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount; ii. Original and four copies of the negotiable clean, on-board Bill of Lading/Airway bill, marked freight prepaid and four copies of non-negotiable Bill of Lading/Airway bill in favour of the purchaser; iii. Four copies of packing list identifying contents of each package; iv. Appropriate insurance certificate; v. Manufacturer's/Supplier's warranty certificate; vi. Manufacturer's own factory inspection report and vii. Certificate of origin by the chamber of commerce of the concerned country. ii. Inspection Certificate for the despatched equipments issued by recognized/reputed agency / committee (acceptable to the purchaser) prior to dispatch <p>b) On Acceptance: Balance Payment of twenty five (25%) of CIP price of goods would be</p>
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			made against the final Acceptance Certificate to be issued by consignees through irrevocable, non-transferable Letter of Credit (LC) opened in the favour of the Foreign Principal in a bank in his country subject to recoveries if any.
Section IV SCC – Payments	Clause 8.2	All payments shall be made by way of crossed cheques drawn in favour of the supplier.	All payments shall be made by way of crossed cheques drawn in favour of the supplier. For payment for goods of foreign origin, if required, a letter of credit account will be opened in favour of successful bidder with the currency in INR.
Section IV SCC – payments	Clause 10.1	<p>a. First extension 71st day thereof from the date of issue of supply order – 3% of supplied ordered item.</p> <p>b. Second & maximum after 85 days from the date of issue of supply order – 5% of supplied ordered item.</p> <p>c. The order will be deemed cancelled after expiry of 90 days from the issue date.</p> <p>Purchaser has every right to receive supply even after expiry of delivery period as mentioned in the supply order and in such case, liquidated damages will be levied @ 3% of the delivery price of the delayed goods or unperformed services for each week of delay or part thereof until actual delivery or performance.</p>	This portion is replaced by –“ 0.5% of value of delayed goods/services per week will be levied as LD. ”
Section IV SCC			
	Contract document – Clause 8	The supplier shall agree to deposit 10% performance security, along with as mentioned at point no. 7 (above), in advance by FDR / Bank Guarantee, against the value of particular supply order for a period of 18 months.	The supplier shall agree to deposit 10% performance security, along with as mentioned at point no. 7 (above), in advance by FDR / Bank Guarantee, against the value of particular supply order till a period of 60 days after completion of the warranty period.
	Contract Clause - 9	The suppliers are not authorized to supply material directly to any state Govt. / Semi Govt. / any other organization on the rate lower than the rate contract.	The suppliers hereby undertake that they have not supplied this equipment directly to any state Govt/ Semi Govt / any other organization on the rate lower than that quoted in this bid.
Annexure X		Financial Bid proforma	Modified Financial Bid proforma has been attached.

CORRIGENDUM IN TECHNICAL SPECIFICATIONS

S.N o.	Page / Clause point	Existing parameter	Correction
	Technical Specifications: Clause 1 : Scan Time	Mention the scan times for axial and helical for 360° rotations with incremental details. Time per rotation of 360° should not be more than 400 ms.	Mention the scan times for axial and helical for 360° rotations with incremental details. Time per rotation of 360° should not be more than 380 ms. Lesser scan time per rotation will be preferred.
	Clause 2: Xray Generator	Higher generator capacity would be preferred. High frequency, having output of minimum 50 kW or more power. Min 100 sec continuous scan should be possible to cover more anatomical area. Mention the KV and mA range with details. System with more maximum mA range would be preferred.	Higher generator capacity would be preferred. High frequency, having output of minimum 80 kW or more power. Min 100 sec continuous scan should be possible to cover more anatomical area. Mention the KV and mA range with details. System with more maximum mA range is required.
	Clause 3: Xray Tube	X-ray Tube: Specify – State of the art, top of the line technology in the segment. The tube should have high load capacity and minimum tube cooling cycle. Type and make to be detailed.	X-ray Tube: Specify – State of the art, top of the line technology in the segment. The tube should have high load capacity and minimum tube cooling cycle. <u>Vendors to quote the actual anode heat storage capacity separately and the anode cooling rate separately in the respective columns indicated below. Also mention the radiation dose optimization features as the best in this aspect would be preferred.</u> Type and make to be detailed.
	Clause 3 a.	mA rating at peak generator power must be mentioned.	mA rating at peak generator power must be mentioned. Best rating is required.
	3 b.	Mention the voltage and current range. Range for pediatric population also should be specified.	Mention the voltage and current range. Range for pediatric population (to reduce radiation) also should be specified
	Clause 3 c	Anode heat Storage Capacity: Minimum 5.0 – 7.5 MHU or higher heat storage should be quoted.	Anode heat storage capacity: 7.5 MHU or higher should be quoted. The heat storage capacity quoted should be the actual rating of the tube and not the retro-calculation from any other parameter.
	Clause 3d	Specify separately in terms of KHU/min. Peak Anode cooling rate should be at least 800 KHU/min.	Specify separately in terms of MHU/min. Peak Anode cooling rate should be at least 1 MHU/min.
	Clause 5	Detector and Data Acquisition system: High Efficiency latest technology detector system with minimum 16 channel data acquisition system capable of generating minimum 128 acquisitions per 360 deg rotation. Is it a 32 bit data acquisition system, specify.	Detector and Data Acquisition system: High Efficiency latest technology detector system with minimum 64 channel data acquisition system capable of generating minimum 128 acquisitions per 360 deg rotation.
	Clause 5 a., Column 2	Detector- High Efficiency latest technology detector system with minimum 16 channel or higher data acquisition system capable of generating minimum 128 acquisition slices per 360 deg rotation with minimum slice thickness of 0.65mm or less.	Detector- High Efficiency latest technology detector system with minimum 64 channel or higher data acquisition system capable of generating minimum 128 acquisition slices per 360 deg rotation with minimum slice thickness of 0.65mm or less.
	Clause 5 a., Column 3	Specify the detector material. 64 physical rows of detector, 128 acquisitions per 360° rotation or higher, with at least 16 channel data acquisition or higher, dual energy capability, will be considered.	Specify the detector material. 64 physical rows of detector, 128 acquisitions per 360° rotation or higher, with at least 64 channel data acquisition or higher, will be considered. <u>Is system available with a dual energy capability ? Give details.</u>

	Clause 7 b	Min 0.5 sec or less	Min 0.38 sec or less
	Clause 9	Image Reconstruction: Please provide the details for reconstruction algorithm to reduce the dose and speed of reconstruction like I-dose 4, ASIR/VEO, IRIS/ SAFIRE, AIDR or any other released at the time of delivery. Specify the stage at which these reconstructions work. Latest dose reduction technique would be preferred.	Image Reconstruction: Please provide the details for reconstruction algorithm to reduce the dose and speed of reconstruction like I-dose 4, ASIR/VEO, IRIS/ SAFIRE, AIDR or any other released at the time of delivery. Specify the stage at which these reconstructions work. Latest dose reduction technique only to be quoted and the older versions of dose reduction technique would not be considered.
	Clause 12- Image display – Flat monitors	4 high-resolution medical grade LCD monitor for the main console and workstations minimum of 1K resolution.	No. of monitors -- high-resolution medical grade LCD monitor for the main console, workstations and for the thin client server licensed computers minimum of 1K resolution.
	Clause 17 a. Console & work station	One dual monitor operator console and two post – processing and viewing workstations. Server based thin client solution like VITREA / Syngo-Via/ AW server / Dexus (if it is not compatible then AW server based thin client solution to be provided) / Intelli-space.	One dual monitor operator console, one post – processing and viewing workstation, and Server based thin client solution with 3 concurrent licenses. Server based thin client solution like VITREA / Syngo-Via/ AW server / Dexus (if it is not compatible then AW server based thin client solution to be provided) / Intelli-space. The details also to be quoted in clause just above clause 18.
	Clause 17 i. continued	State of the art thin client server which will support minimum 3 people to work simultaneously from LAN and WAN .In such a configuration, the system should provide access to the following general features in all configurations :-	State of the art thin client server with minimum 3 concurrent license (which will support minimum 3 people to work simultaneously from LAN and WAN). These stations should work in common for any modality and should be adequately compatible. The images seen at a remote place from the modality should not have data loss and should neither have any loss in clarity / resolution. In such a configuration, the system should provide access to the following general features in all configurations :-
	Clause 23	Post Processing – All post processing tools available with the vendor must be made available at the time of installation. Few of them are mentioned below for reference. All software must be available at Main Console and Workstations	Post Processing – All post processing tools available with the vendor must be made available at the time of installation. Few of them mentioned below are only for reference and not all inclusive. All software must be available at Main Console and Workstations
	Accessories c)	Premium ultra light weight lead aprons - 5, thyroid collars -5, pediatric patient protection -5	Premium ultra light weight lead aprons -5, thyroid collars -5, pediatric patient protection - 5, along with the heavy duty apron hangers.
	Accessoriesq)	Red Bulb at the entry door of the patient to warn of the radiation . Radiation zone warning boards	Red Bulb at the entry door of the patient to warn of the radiation, to be synchronized with the exposure Radiation zone warning boards
	r)	In addition please note that the equipment to be supplied should be latest equipment satisfying the tender specifications (Along with latest RSNA release of that calendar year) and any software upgradations until next 5 years (minimum) should be provided without any extra cost.	In addition please note that the equipment to be supplied should be latest equipment satisfying the tender specifications (Along with latest RSNA release of that calendar year) and any software upgradations until next 5 years (minimum) should be provided without any extra cost. However, they should not be less or inferior to the specifications asked in this tender document.
	x)	One set of text books	One set of text books to be supplied. The list of books is mentioned along with the turnkey details.
	Miscellaneous (e)	The training should be in the form of two visits for faculty of Radiodiagnosis in	The training should be in the form of visits for faculty of Radiodiagnosis in well known

		well known centres abroad to learn the advanced development and protocols. The technologists of AIIMS Raipur would be trained at the high volume centres in India for protocols.	university centres like Mayo clinic, Massachusetts GH, or equivalent to learn the advanced development and protocols. This would be for 20 man-days. The technologists of AIIMS Raipur would be trained at the high volume centres in India for protocols for 21 man-days.
		After sales service support from Raipur	The after sales service of the equipment or any accessory supplied along with it as a part of the contract has to be undertaken by the successful bidder through his skilled engineer with the technical know-how of the CT scan. The engineer should be stationed in Raipur and should be available in the event of a break down. A substitute skilled engineer should be made available before the designated engineer leaves the station for some reason. An undertaking to the effect will have to be issued by the successful bidder.

TURN KEY FOR CT SCAN

This document includes the details for the turnkey section for the successful commissioning of the CT scan and has to be quoted along with the CT tender bid. This list will enumerate the requirements & or accessories in addition to the items mentioned before in the tender document. In case it is a repetition, this list will prevail. In case any equipment is taken as the accessory or under turnkey, the service and maintenance will be undertaken by the supplier of the main equipment. The furniture components should be of premium quality and maintenance free material and workmanship conforming to the status of AIIMS.

1. Radiation protection measures according to the AERB guidelines to be undertaken

- a. Adequate lead cover & lining of the doors
- b. Lead glass of minimum size of 200 cm x 100 cm.
- c. Door closures to the doors to the gantry room and the console room
- d. Lead aprons and pediatric lead shields as mentioned in the accessories section of the tender document. These to be supplied along with the wall mounted hanger for the hanger.

2. Book list

- a. Grainger & Allison's – Diagnostic Radiology Essentials (Text Book – all volumes)
Imprint: Churchill Livingstone
- b. Dahnert – Radiology Review manual. LWW, 7th edition
- c. Edelman – Clinical MR Imaging –
- d. Harnsberger – Diagnostic Imaging, Head & Neck. Amirsys 2nd ed
- e. Berquist – MRI of the Musculoskeletal system – LWW
- f. Barkovich – Pediatric neuroimaging – LWW
- g. Butler – Applied radiological anatomy for Medical students – Cambridge University publications
- h. Christensen – Introduction to the physics of diagnostic radiology – LWW
- i. Som & Curtin – Head & Neck Imaging
- j. David Sutton – Textbook of Radiological imaging
- k. Gore & Levine – Textbook of Gastrointestinal Radiology.
- l. Coronary CTA
- m. Multislice CT physics & applications
- n. Mathias Prokop - Spiral and Multislice Computed Tomography of the Body – Thieme publishers

3. Defibrillator with a trolley of state-of-the-art specifications (Annexure Attached)

- 4. Stainless steel trolley** (with standard slots for medical & contrast administration & made of premium quality.)

5. Stainless steel trolley (Crash trolley with all emergency equipment like ambu bag, endo tracheal tubes, O₂ mask, etc.
6. Reception counter to be made ready 12'x12' in the corner area adjacent to the CT room with facility for 3 computers and file storage cabinets and revolving chairs – 4nos. premium quality.
7. Granite counters inside the gantry room.
8. PVC antistatic antiskid floor covering.
9. High quality illuminated board indicating CT scan to be put on the top of the entry door
10. Board indicator of AIIMS in Hindi & English on the exterior wall of CT room. Letters in **Stainless steel** on a black stone background.
11. Tables / Table platform for the console room & computers – C shaped with proper leg space conforming to the location of the console computers.
12. Upper half wooden cabinets on the back and side wall of console and in the gantry room walls both sides for film and related storage.
13. Premium quality chairs with half backs – 4 nos.

ANNEXURE FOR THE DEFIBRILLATOR SPECIFICATIONS

Biphasic Defibrillator/ Monitor

- Low Energy Biphasic Waveform technology with Range of 1 to 200 Joules.
- Maximum energy of 200 Joules and should comply with 2010 AHA guidelines
- Adult and Pediatric Paddles with paddle contact indicator.
- Should have integrated Automated External Defibrillator (AED).
- Should have non-invasive pacemaker as standard with demand and fixed modes
- Should have capability to monitor 3/5 lead ECG
- Charge time should be less than 5 seconds
- It should have at least 6 inch high resolution color TFT three channel display
- Should have capability to monitor SpO₂ and NIBP
- Should be supplied with multi-function pads for ECG, monitoring, cardio version, pacing and AED.
- Should have battery back up of more than 90 minutes for continuous monitoring.
- Device status indicator for readiness of use
- Automated Self Test (hourly, weekly and Monthly) with storage of results + print out and Manual routine operational checks.
- Should be compatible with internal paddles and one set of internal paddles need to be supplied with the unit.
- ECG waveform and events storage on a flash card/ USB
- Should have valid US FDA and CE certification.

**Deputy Director Administration
AIIMS Raipur (CG)**