

NOA.17014/1/2017-HFW
GOVERNMENT OF MIZORAM
HEALTH & FAMILY WELFARE DEPARTMENT

Dated Aizawl, the 31st August, 2017

TENDER NOTICE

Sealed Tenders are hereby invited on behalf of the Governor of Mizoram from reputed and bonafide Manufacturers or their authorized dealers, for **(a) Purchase of 64 Slice C.T Scan Machine for State Referral Hospital, Falkawn on Turn Key Basis and (b) 16 Slice C.T Scan Machine for Civil Hospital, Lunglei** which will be received by the Director, Hospital & Medical Education, Dinthar, Aizawl on or before **28.9.2017 upto 12:00 Noon** under the terms and conditions laid down below. Quotations are to be opened by Director, Hospital & Medical Education or her authorized representatives at **1:00 P.M.** on the same day. The Tenderers or their representatives may also be present at the time of opening of the Quotations, if they so desire.

TERMS & CONDITIONS

1. The cover of the tenders should be superscribed as “ **(a) Tender for Purchase of 64 Slice C.T Scan Machine for State Referral Hospital, Falkawn on Turn Key Basis and (b) Tender for Purchase of 16 Slice C.T Scan Machine for Civil Hospital, Lunglei**” addressed to Director, Hospital & Medical Education, Dinthar, Aizawl and should clearly indicate full postal address of the tenderer.
2. All the tender papers should be numbered and arranged in order as per Terms & Conditions. Indexing of the documents should be attached at the first page of tender document.
3. Tender should be accompanied by **Bid Security 2% in case of Tribal tenderer and 3% in case of non-tribal to the quoted amount** in the form of Account Payee Demand Draft / Fixed Deposit Receipt / Banker's Cheque or Bank Guarantee from any of the Commercial Banks which should remain valid for at least 45 days duly pledged in favor of Director, Hospital & Medical Education, Mizoram **duly signed and stamped by the tenderer at the back side of the draft/deposit.**
4. Tenders should be submitted in the prescribed form only in both **hard and soft copy (MS Word format).**
5. Quoted rates in terms of Indian Rupees will be considered inclusive of **Goods and Services Tax (GST)**. If there are more than one brand, the separate rates for such brands with specific details should also be mentioned.
6. Warranty period should be mentioned clearly and availability of After-Sale-Services facilities during warranty period.
7. Tenderer should quote their rates for F.O.R Destination i.e. State Referral Hospital, Falkawn, and Civil Hospital, Lunglei.

8. Tender must be accompanied by the following documents –
 - a) Photo copy of **GST Registration Certificate** duly attested by a Gazetted Officer. Original Certificates should be produced at the time of opening of the tenders/ quotations, if demanded.
 - b) Photo copy of **Scheduled Tribe Certificate** duly attested by a Gazetted Officer or Notary (for Tribal tenderer). Original Certificates should be produced at the time of opening of the tenders/ quotations, if demanded.
 - c) Non- Judicial Adhesive Stamp worth at least Rs.7.50 should be affixed (for non-tribal tenderer)
9. The tenderer should submit Notorized Photo copy of ISI certificate/ISO 13485/14001/9001.
10. All pages of the tender papers should be printed, signed, stamped and dated; hand written quotations shall not be entertained. Any page or pages not signed, stamped and dated will be marked violated clause at the time of opening of tender.
11. Tenders submitted by Authorized dealers should attach certificate of Authorization or Distributorship or Dealership as the case may be from the concerned Manufacturers duly attested by a Gazetted Officer or Notary. Original Certificates should be produced at the time of opening, if demanded.
12. Tenderers must enclose detail specifications of the Instruments. They must also enclose relevant documents including catalogue/literature of the quoted items.
13. The undersigned shall not be bound to accept the lowest rate and reserves the right to accept or reject any tenders without assigning any reasons thereof.
14. A successful firm should execute an appropriate Deeds of Agreement within 30 days from the date of issue of acceptance of their quoted rates failing which their quoted rate will be treated as invalid.
15. A successful firm should furnish Performance Security of 5% of the total value of the supply before issue of supply order in the form of Account Payee Demand Draft / Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks which should remain valid for a period of at least 60 days beyond the date of completion of all contractual obligations of the supplier, pledged in favor of Director, Hospital & Medical Education, Government of Mizoram **duly signed and stamped by the tenderer at the back side of the draft/deposit.**
16. A successful firm will have to supply the materials within the period fixed by the Department/Authority. If the supply cannot be made within the stipulated period without any intimation, the Department has the right to cancel the supply order.
17. All payments will be made only after the materials are received in full and in good condition and after completion of the installation and satisfactory commissioning.
18. Once the rate is accepted and communicated to the successful firm, the same will remain valid during the validity period of the agreement with the approved supplier. No price escalation will be permissible during the validity period, which is normally for a period of 12 months and is extendable, if mutually agreed upon by both the parties i.e. Director, Hospital & Medical Education and concerned approved supplier, subject to recommendation of the State Purchase Advisory Board or the Departmental Purchase Advisory Board, as the case may be.

19. Late/delayed tenders will not be entertained. Certificates other than those stated in the above clauses should not be attached. Any other/further clarifications in connection with submission of the tender may be had from the office of Director, Hospital & Medical Education, Mizoram during office hours on all working days.
20. Firms or individuals who attempt to negotiate/campaign, direct or indirect, on the part of tender with the authority to whom he has submitted the Tender or the authority who is competent to accept, shall be excluded from consideration, if proved.
21. In case of any legal disputes/litigations arising out of this Tender Notice or its terms, the Courts of Law at Aizawl only shall have jurisdiction to adjudicate the same.

Sd/- LALRINLIANA FANAI
Commr. & Secretary to the Government of Mizoram,
Health & Family Welfare Department.

Memo No.A.17014/1/2017-HFW : Dated Aizawl, the 31st August, 2017

Copy to :

1. P.S to Minister, H & F W Deptt., for favour of information.
2. The Principal Director, H & FW Deptt., Mizoram for kind information
3. The Director, Hospital & Medical Education, Mizoram, Aizawl.
4. The Director of Health Services, Mizoram
5. The Dy. Director, Health Services, Central Medical Store, Aizawl
6. Guard file.

(MARGARET LALRINAWMI FANAI)
Under Secretary to the Govt. of Mizoram,
Health & Family Welfare Department,
Mizoram : Aizawl.

Technical Specification for Whole Body Multi Slice CT SCANNER
(16 Slices / Rotation)

	Specification
GANTRY	1. The CT Scanner should have low Voltage Slip Rings incorporated in the Gantry
	2. The Minimum scan time for a 360 Degree rotation should be Sub Second & not more than 0.8 Seconds.
	3. The gantry should have a minimum tilt of 25 degrees on either side and remote tilt should be available as standard.
	4. The gantry should be provided with User control panels on either side for easy positioning
	5. The One millimeter Slice in 16 Row acquisition should be available.
	6. The Gantry should have 3D Positioning Laser lights.
	7. The Scan field of view (FOV) in acquisition mode should be at least from 200 mm to 400 mm with intermediate Steps for scanning different anatomies.
	8. Aperture should be at least 70 cm diameter.
X RAY SECTION	1. The X ray Generator should be compact and inbuilt in the Gantry.
	2. The System X ray power should be 40 kw/50 kw or above
	3. The MA range available should be between 10 to 300 MA or more with increments in steps of not more than 10 ma .
	4. The X ray Tube should be essentially Dual Focus with capacity of at least 3.5 or more MHU. Any special feature of the X ray tube to be highlighted with literature.
	5. Specify the focal Spots of the X ray tube.
	6. The X ray tube should have a cooling rate of not less than 700 KHU per MIN
	7. The X ray tube Cooler Unit should be in built in the Gantry
DETECTOR	1. The Detector Offered should be Solid State. Specify the Material
	2. The Effective Elements/ Channels should be at least 650 per row. The 16 slice per Rotation should be possible with the detectors in One mm or less Mode.
	3. Specify the Fan Angle of the X rays and the geometry The detectors should not require frequent calibration.
	4. Specify the Number of Rows & the Total Number of Detector Cells
PATIENT COUCH	1. The patient table offered should have a minimum load bearing capacity of at least 170 KG.
	2. The Minimum table top height should not be more than 55 cms from the floor level for easy transport of trauma patients.
	3. The Floating table top width should be atleast 38 cms for better comfort.
	4. The range of metal free scan should be atleast 165 cms.
	5. The vertical range should be atleast 55 cms (max height – min height)
	6. Specify the reproducing accuracy of the table.
	7. Remote UP/DOWN , FWD/BWD of the Patient Couch should be standard
Spiral / Helical Section	1. The system offered should have Spiral Capability of at least 100 seconds & above. Real Time Spiral @ 8 f/s should be standard.
	2. The range of Spiral facility in Axial Direction should be more than 100 cms.

	Specification
	<p>3. The Reconstruction Time in Spiral scan should not be more than 130 Milli seconds. (At least 8 Images / second)</p> <p>4. The system should have the Smart Prep or equivalent facility & ability to track Contrast medium to trigger scan should be included in the scope of Supply. More than 2 No's ROI is required for such Contrast Chase & Exposure Trigger facility.</p> <p>5. System should perform Dose Reduction scans using the latest Technology and specify the Technology</p> <p>6. Hi Res scan package should be offered as standard</p>
Computer section	<p>1. The Computer offered should be the Latest Multi tasking Processors and a menu driven platform with a RAM size of at least 3 GB</p> <p>2. The Monitor should be the latest Color of at least 18 inches and flat screen. There should be Console with One Monitor & a Separate Independent Work Station .</p> <p>3. The display matrix should be at least 1024 / 1024.</p> <p>4. The reconstruction time for a Axial scan should not be more than 120 Milli seconds.</p> <p>5. The Hard disk Capacity for both Image and Raw data should be more than 500 GB</p> <p>6. It should have facility to store at least 300,000 Images</p> <p>7. The system should be supported with archiving facility of DVD & CD Main Console</p> <p>8. DICOM facility to send , store , print , receive, Query / Retrieve , MWM , MPPS etc should be standard .Remote Diagnosis & Fault detection should be standard.</p> <p>9. PC Based connectivity should be standard for easy transfer of Images & Report.</p> <p>10. An Advanced Work station with at least 4 GB RAM , Archival on DVD / CD with CT Angio graphy, Colonoscopy , 3D VRT, SSD, CT / MRI Fusion as well as DICOM Print should be included in the Scope of Supply. DVD / CD Archival is Required.</p>
Image Processing section	<p>1. The Main Console should have standard software like 3D Volume rendering, MIP, CT Angio, Color Angio Display, 3D ArtefactSuppressions, Pre set 3D Reconstruction & Display Protocols, Auto Bone Removals , CT Based DSA Attachment</p> <p>2. All softwares as above and Specialized Softwares such as Virtual Endoscopy, Colonoscopy, CT Perfusion , Dental scan , CT Angio graphy , Bone Removals , CT / MRI Fusion should be available on the Work Station .</p> <p>3. The following soft ware should be offered as standard (MPR , ROI , VOLUME CALCULATION , CT NUMBER Measurement of between -10, 000 to + 25,000 , WINDOW WIDTH , WINDOW LEVEL , TOPOGRAM DISPLAY , CINE DISPLAY , HRCT LUNG, DYNAMIC SCAN)</p> <p>4. Direct Display of MPR Images immediately after scan is preferable. Resolution :</p> <p>a) The System Spatial Resolution should be mentioned with parameters.</p> <p>b) The low contrast resolution should not be more than 4 mm at 0.3 %. Shoulder , Pelvis Streak Artefact suppression Software should be standard.</p> <p>c) Noise Suppression protocols to maintain LCR at low dose should be standard.</p>

	Specification
	d) Special Softwares (Like MA Modulation in Routine) to ensure Dose efficiency should be standard
	e) Specify the CT Dose Index
Accessories	1. Multi size Dry Laser Imager of any reputed make.
	2. Color Laser Printer of any reputed make.
	3. Lead Glass of at least 2 ft by 4 ft
	4. Stabilizer for the Entire system of suitable capacity
	5. UPS with One hour back up of suitable capacity to handle CT Computer , Laser Imager , Work Stations , Color Printer .
	6. Dual Phase Contrast Injector of reputed make with 100 No: Syringes & Tubings.
	7. Lead apron one
Warranty	1. Should be indicated including X-Ray tube and all accessories.
	2. The offer should be accompanied by Original data sheet/brochure of the product
	3. The Cost of the CMC (Comprehensive Maintenance Contract) inclusive of labor, spares and X Ray tube. The CMC Should cover all vendor items and local accessories. This will be added to the Cost for evaluation of the Tender and to arrive at the Lowest Bid
Others But Mandatory	The Systems & the Configuration as mentioned above are Mandatory & no item as asked above shall be treated as Optional in the Offer
	All compliance to the Tender should be in the form of Original Data sheet or Original Certificate from the manufacturer. Items under Work in Progress will not be considered.
	On Site Training for the CT Technicians and Doctors (Radiologists) for a period of Two Weeks on applications of the System
	As there is continuous Development of Technology , the latest Model available with the Manufacturer shall be offered in the Tender.
	All the Software should be offered on Direct Sale to the Hospital and NOT by way of Internet Rental basis.
	. AERB Type Approval should be enclosed for the offered Model. In addition if CE / FDA Certificate is available the same must be enclosed in the Tender. Please attach User Certificate from at least Five Reputed Hospitals in the Tender.
	Country of Origin should be USA / Europe / Japan, the Third Party Pre shipment verification certificate should be enclosed to certify the date of manufacture of the System.

**Technical Specification for Whole Body Multi Slice CT Scanner
(64 Row Multi Detector CT)**

The Model Offered should be High end model under current production **Upgradable to 128 Slice at Site with Minimum Down Time**, should be Slip Ring Technology, Refurbished – Gold Seal Units will not be accepted. The Offer should meet the Specifications as follows:

Gantry:	1. The CT Scanner should have low Voltage Slip Rings incorporated in the Gantry
	2. The Minimum scan time for a 360 Degree rotation should be 0.35 seconds or less
	3. The gantry should have a minimum tilt of 30 degrees on either side and remote tilt should be available as standard.
	4. The gantry should be provided with User control panels on either side for easy positioning.
	5. The sub millimeter Slice @ 0.63 mm or less in 64 Row acquisition should be available. The system should be in position to perform 64 Slice / Rotation for Cardiac applications and 32/16 Slice / Rotation for normal applications. The Systems should have Independent 64 Row Detectors.
	6. The Gantry should have 3 D Positioning Laser lights.
	7. The Scan field of view (FOV) in acquisition mode should be at least from 200 mm to 500 mm with intermediate Steps for scanning different anatomies.
	8. Aperture should be at least 70 cm diameter.
X ray Section:	1. The X-ray Generator should be compact and inbuilt in the Gantry.
	2. The System X ray power should be 70 kw and above. The Systems offered should Adaptive Iterative Dose Reduction or I Dose 4 equivalent attachments as standard to reduce the MA Required for the Scans.
	3. The MA range available should be between 10 to 600 MA or more with increments in steps of not more than 10 ma.
	4. The X-ray Tube should be essentially Dual Focus with capacity of at least 7 MHU. Liquid bearing X-ray Tube is desirable. Any special feature of the X ray tube to be highlighted with literature.
	5. Specify the focal Spots of the X ray tube.
	6. The X ray tube should have a cooling rate of not less than 1000 KHU per MIN
	7. The X ray tube Cooler Unit should be in built in the Gantry
Detectors:	1. The Detector offered should be Solid State. Specify the Material
	2. The Effective Elements/Channels should be at least 650 per row. The 64/32/16 Slice per Rotation should be possible with the detectors in 0.63 mm or less Mode.
	3. Specify the Fan Angle of the X rays and the geometry. The detectors should not require frequent calibration.
Patient Couch:	1. The Patient table offered should have a minimum load bearing capacity of at least 180 KG
	2. The Minimum table top height should not be more than 45 cms from the floor level for easy transport of trauma patients.
	3. The Floating table top width should be atleast 40 cms for better comfort
	4. The range of metal free scan should be atleast 165 cms.
	5. The vertical range should be atleast 55 cms (max height – min height)
	6. Specify the reproducing accuracy of the table.

	7. Remote UP/DOWN, FWD/BWD of the Patient Couch should be standard
Spiral / Helical Section:	1. The system offered should have Spiral Capability of atleast 100 seconds & above. Real Time Spiral @ 10 f/s should be standard.
	2. The range of Spiral facility in Axial Direction should be more than 100 cms.
	3. The Reconstruction Time in Spiral scan should not be less than 20 Images / Sec
	4. The system should have the Smart Prep or equivalent facility & ability to track Contrast medium to trigger scan with Multiple ROI should be included in the scope of Supply
	5. System should perform Tilt Spiral scan as standard at any of the chosen angles in Multi Slice Mode.
	6. Hi Res Scan package of 0.63 mm or less should be offered as standard.
Computer Section :	1. The Computer offered should be the Latest Multi tasking Processors and a menu driven platform with a RAM size of at least 5 GB
	2. The Monitor should be the latest Color of at least 18 inches and flat screen. Two Monitor Independent Console preferred. The Twin Monitor system should work on either shared or Common data base.
	3. The display matrix should be at least 1024 / 1024.
	4. The reconstruction time for a Axial scan should not be more than 50 Milli seconds.
	5. The Hard disk Capacity for both Image and Raw data should be more than 1000 GB
	6. It should have facility to store at least 500,000 Images
	7. The system should be supported with archiving facility of DVD & CD Main Console
	8. DICOM facility to send, store, print, receive, Query / Retrieve, MWM, MPPS etc should be standard.
	9. PC Based connectivity should be standard for easy transfer of Images & Report.
Image Processing section:	1. The System should have standard software like 3D Volume rendering, MIP, CT Angio, Color Angio Display, Virtual Endoscopy, Colonoscopy, CT Perfusion, Dental scan, Prospective ECG Gated CARDIAC scan, EG Gated Dose Modulation Colon View, CT Based DSA should be available as standard on the System & Work Station. The Software should function independently.
	2. The following soft ware should be offered as standard (MPR, ROI, VOLUME CALCULATION, CT NUMBER Measurement of -10,000 to +25,000 Units WINDOW WIDTH, WINDOW LEVEL, TOPOGRAM DISPLAY, CINE DISPLAY, HRCT LUNG, DYNAMIC SCAN)
	3. Cardiac Scan Attachment with ECG Gated Segmented Recon, Calcium score, Plaque Analysis, Cardiac Function Analysis, Vessel Flythrough of the Coronaries should be included in the Scope of Supply on the Work Station
	4. Automatic display of MPR Images after scan will be preferred.
	5. There should be State of the Art Independent Work Station with at lest 6 GB RAM, CD / DVD Archival / DICOM Viewer Two work stations included in the Scope of Supply and it should support all the software as listed on the Main Console
Resolution:	1. The System Spatial Resolution should be mentioned with parameters.
	2. The low contrast resolution should not be more than 3 mm at 0.5%. Shoulder, Pelvis Streak Artefact suppression Software should be standard. If better Resolution is available the same will be

	preferred by the Hospital
	3. Noise Suppression protocols to maintain LCR at low dose should be standard.
	4. Special Software (MA ECG Modulation in Routine, 3D Noise Suppression & Prospective Cardiac Mode) to ensure Dose efficiency should be standard.
	5. Specify the CT Dose index
Accessories:	1. Multi size Dry Laser Imager of any reputed make.
	2. Color Laser Printer of any reputed make.
	3. Lead Glass of at least 2 ft by 4 ft
	4. Stabilizer for the Entire System of suitable capacity
	5. UPS with one hour back up of suitable capacity of handle complete CT Scanner, Laser Imager, Work Stations, Color Printer.
	6. Dual Head Pressure Injector of reputed make with 100 No: Syringes & Tubings.
Warranty:	1. Should be indicated including X ray tube and all accessories.
	2. The offer should be accompanied by Original data sheet/brochure of the product.
	3. The Cost of the CMC (Comprehensive Maintenance Contract) inclusive of the X ray tube should be quoted inclusive of labour, spares and X Ray tube. The CMC should cover all vendor items and local accessories. This will be added to the cost for evaluation of the Tender and to arrive at the Lowest Bid.
Others But Mandatory	1. All compliance to the Tender should be in the form of Original Data sheet or Original Certificate from the manufacturer. Items under Work in Progress will not be considered.
	2. On Site Training for the CT Technicians for a period of Two Weeks, Training for Two Doctors (Radiologists) for a period of Two Weeks on applications of the System
	3. Specify if Upgrade to 128 Slice CT Scanner is available & its Cost separately.
	4. All the Software should be offered on Direct Sale to the Hospital and NOT by way of Internet Rental basis.
	5. AERB Type Approval should be enclosed for the offered Model. In addition if CE / FDA Certificate is available the same must be enclosed in the Tender. Please attach User Certificate from at least Five Reputed Hospitals in the Tender.
	6. It shall be the responsibility of the Bidder to survey the site, prepare a Site plan, alter the site and install the System on Turn Key basis.
	7. Country of Origin should be USA / Europe / Japan, the Third Party Pre shipment verification certificate should be enclosed to certify the date of manufacture of the System.