

Amendment No. 02**Sub: Amendment to the referred tender enquiry**

Ref.: Tender Enquiry Document HITES/PCD/VKNRL/TED04/2020-21 dated 23-03-2021 and subsequent amendment(s).

Following changes are being incorporated in the tender

SECTION VII
TECHNICAL SPECIFICATIONS

Item No. 01 16 Slice Whole Body CT Scanner Machine		
Tender Pg. & Para	TENDER SPECIFICATION	READ AS
Pg 40 Para A.1	Solid state detector system generating 16 slices per 360 degrees rotation. Sub-millimeter slice thickness (Please specify) should be available for axial and helical modes with 20 or more rows detectors (20 at least).	Solid state detector system generating 16 slices per 360 degrees rotation. Sub-millimeter slice thickness (Please specify) should be available for axial and helical modes with 16 or more rows detectors (16 at least).
Pg 40 Para A.4	The detectors shall be large area detector with Z axis coverage of 20 mm or more	The detectors shall be large area detector with Z axis coverage of 11 mm or more
Pg 40 Para B.1	High frequency X-ray generator should be with minimum output of 50KW or more. Specify various KV settings with maximum mA for each KV.	High frequency X-ray generator should be with minimum output of 32KW or more . Specify various KV settings with maximum mA for each KV.
Pg 40 Para C.1	It should be suitable latest technology X-ray tube with high heat dissipation rate at least 800 KHU/min. Anode heat storage capacity should be 5.0 MHU or more for uninterrupted operation	It should be suitable latest technology X-ray tube with high heat dissipation rate at least 800 KHU/min. Anode heat storage capacity should be 3.5 MHU or more for uninterrupted operation
Pg 40 Para D.2	Tilt should be +/- 30 degree or more	Tilt /Digital Tilt should be +/- 30 degree or more
Pg 40 Para D.3	Scan Field of View (FOV) should be 50 cm or more	Scan Field of View (FOV) should be 40 cm or more
Pg 40 Para D.4	Should be provided with user control panels on both side of gantry	Deleted
Pg 40 Para D.5	Remote tilt should be possible from Console Room	Deleted
Pg 40 Para G.1	16 slice acquisition with minimum thickness of .75 mm or less, any variable slice thickness from 0.75 mm to 7.5 mm in spiral mode and 0.75 mm to 10 mm in axial mode	16 slice acquisition with minimum thickness of .75 mm or less, any variable slice thickness from 0.75 mm to 7.5 mm in spiral mode and 1.5 mm to 10 mm in axial mode
Pg 40 Para H.1	Table should have a metal-free scanable range of at least 150 - 160cm. It should be capable of carrying at least 180 kg - 200 Kg of load.	Table should have a metal-free scanable range of at least 130 - 160cm . It should be capable of carrying at least 180 kg of load.

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Pg 40 Para H.9	System should have Flat Top Table/ for RT Treatment planning for the Oncology/ (Carbon) Patients. (optional) with Dicom compatible software i.e. DICOM 3.0 ready system or newer version	Deleted
Pg 40 Para I.1	Two separate work station- one for the CT console & one for Radiologist Reporting Room.	One independent post processing work station to be kept in CT Console Room and one PC with DICOM viewer to be kept in Radiologist Reporting Room should be supplied with the CT scanner.
Pg 40 Para I.3	System should be menu driven operation. Applications like image reconstruction, filming, curved MPR, CT Angiography; VRT continuous CT biopsy should be possible	System should be menu driven operation. Applications like image reconstruction, filming, curved MPR, CT Angiography should be possible
Pg 41 Para I.4	For CT Biopsy extra monitor to be provided in gantry room	Deleted
Pg 40 Para I.5	Additional monitor should be provided at the work station cum reporting station.	Deleted
Pg 41 Para M.1	Work Station with latest processor, 21" or more TFT active matrix colour LCD monitor with RAM of at least 16 GB & Hard disc capacity of minimum 1 TB, Image Evaluation and processing software including for displaying 1024 x 1024 matrix or more.: Screen resolution SXGA or higher . Image archiving (i) MOD (ii) DVD cum CD (DVD cum CD writer should be on all format dual layer typing type.) (iii) Storage into backup system RAID.	Work Station with latest processor, 19" or more TFT active matrix colour LCD monitor with RAM of at least 16 GB & Hard disc capacity of minimum 1 TB, Image Evaluation and processing software including for displaying 1024 x 1024 matrix or more.: Screen resolution SXGA or higher . Image archiving (i) DVD cum CD (DVD cum CD writer should be on all format dual layer typing type.)
Pg 41 Para M.2	Work station & software's must be from original equipment manufacturer and user friendly with all functions menu driven. It should be modern user interface .Also should provide 10 MOD blank, 20 DVD blank (medical grade), 100 blank CD (medical grade). All functions should be available at the operating console and should be available in the working station cum reporting station.	Work station & software's must be from original equipment manufacturer and user friendly with all functions menu driven. It should be modern user interface .Should also provide 20 DVD blank (medical grade), 100 blank CD (medical grade). All image processing functions should be available at the operating console should be available in the working station.
Pg 41 Para M.3	The system should be supplied from manufacturer and user friendly with all functions menu driven. It should be modern user interface .Also should provide 10 MOD blank, 20 DVD blank (medical grade), 100 blank CD (medical grade). All functions should be available at the operating console and should be available in the working station cum reporting station	Deleted

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Pg 41 Para M.4	The advance vessel analysis, auto bone removal, small volume quantification, lung nodule assessment. CT whole body perfusion along with brain perfusion, Dental CT. (Dental reformat Package).Bolus tracking, Ct. reporting ,SAS (Spiral auto start),CT fluoroscopy (Continuous CT Biopsy), paediatric protocols, Urology Package, Bone mineral Density etc. should be possible even on independent workstation.	The advance vessel analysis, auto bone removal, small volume quantification, lung nodule assessment. CT whole body perfusion along with brain perfusion, Dental CT. (Dental reformat Package).Bolus tracking, Ct. reporting, SAS (Spiral auto start), paediatric protocols, Urology Package, etc. should be possible even on independent workstation.
Pg 42 O.1	A good quality heavy duty automatic contrast pressure injector system that is fully compatible with the scanner and that can be synchronized with CT exposure should be provided. Extra 200 disposable syringes (100-150 ml) with 200 connectors that can be used with the injector to be provided.)	A good quality dual head heavy duty automatic contrast pressure injector system that is fully compatible with the scanner and that can be synchronized with CT exposure should be provided. 200 nos. of disposable syringes (100-150 ml) with 200 connectors that can be used with the injector to be provided.
Pg 42 O.2	A personal computer with colour laser printer for report generation should be provided. Computer to have Core i7 or latest, based on good quality graphics card with minimum 8 GB DDR RAM. Facility to transfer CT images to work station with two PC without loss of diagnostic quality & its display using a licensed latest copy of good quality DICOM 3.0 image viewer should be provided. An all format DVD cum CD writer also should be provided in PC. A paid version of antivirus software has to be installed.	Computer with DICOM Viewer: to be placed in Radiologist Reporting Room. A personal computer with colour laser printer for report generation should be provided. Computer to have Core i7 or latest, based on good quality graphics card with minimum 8 GB DDR RAM. Facility to transfer CT images to PC without loss of diagnostic quality & its display using a licensed latest copy of good quality DICOM 3.0 image viewer should be provided. An all format DVD cum CD writer also should be provided in PC. A paid version of antivirus software has to be installed. The network cabling and routers necessary to connect this computer with the CT console & Independant workstation should be provided.

Note:

- i. All other contents of the tender enquiry including terms & conditions remain unaltered.
- ii. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids.
- iii. TC compliance sheet v1.0 and Price bid format v1.0 is being uploaded on CPP Portal for necessary actions of interested Bidders.