

Sl. No	Tender Page & Para	TENDER SPECIFICATION	NAME OF THE FIRM	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION
1	Page 69 Para 1.a	1. X-Ray Generator: a. High frequency generator with output of at least 70 KW.	Siemens Healthcare	Request you to amend as " a. High frequency generator with output of at least 80 KW. " Justification: Different clinical applications require different X-ray spectra and hence different KV settings for optimum image quality and/or the best possible signal-to-noise ratio at the lowest dose. A high capacity generator is a must requirement for its high stability, high penetration, low comprom scatter, reduced noise artifacts, low partial volume effects, while at the same same lesser ionizing radiation and skin dose due to associated technologies. For CT scanner with 128 acquired slices it is a must that a high generator system with minimum 80 kW, if not 100KW be procured	no change considered.
2			WIPRO GE HEALTHCARE	2. X-Ray Tube: b. Tube cooling rate of 1000 KHU per minute or more.	
3	Page 69 Para 2.b	2. X-Ray Tube: b. Tube cooling rate of 1600 KHU per minute or more.	Blue Star	Amend to cooling rate of 1300 KHU per minute or more. Remarks: Our X Ray tube design uses, comparatively larger focal area and smaller cooling rate to achieve better X-ray parameters as asked in tender. Tender asked for max KV of 130KV and max mA of 600mA. With our design, we are able to achieve 600mA and 140KV with 7.5 mHU tube by using 1368 KHU/min cooling rate supported with focal point area as 1.2 x 1.4mm. Hence in lieu of above, the qualifying criteria should be not be fixed at cooling rate of 1600KHU which will result in unfair support to certain vendor and won't yield a fair competition.	2. X-Ray Tube: b. Tube cooling rate of 1000 KHU per minute or more.
4			ERBIS ENGINEERING CO. LTD	We request you to kindly amend the specs as "Tube cooling rate of 1300 KHU per minute or more"	
5	Page 69 Para 3.c	3. Detector and Data Acquisition System: c. The detector should generate 128 or more slices per rotation with slice thickness of 0.625mm or lower for all types of scans and applications.	ERBIS ENGINEERING CO. LTD	We request you to kindly amend the specs as "The detector should generate 128 or more slices, using 64 rows of detector, per rotation with slice thickness of 0.625mm or lower for all types of scans and applications."	no change considered.
6	Page 69 Para 3.d	3. Detector and Data Acquisition System: d. The detector should have 700 or more effective elements / channels per slice (this number should not include the reference elements / channels and channels required for calibration).	Philips India Ltd	The detector should have 672 or more effective elements / channels per slice (this number should not include the reference elements / channels and channels required for calibration).	3. Detector and Data Acquisition System: d. The detector should have 600 or more effective elements / channels per slice (this number should not include the reference elements / channels and channels required for calibration).
7	Page 69 Para 4.d	4. Gantry: d. The scan time for a 360 Degree rotation should be 0.35 second or lower	Philips India Ltd	The scan time for a 360 Degree rotation should be 0.40 second or lower	4. Gantry: d. The scan time for a 360 Degree rotation should be 0.40 second or lower
8	Page 69 Para 6.a	6. Operator Console: a. The latest computer should be offered with 64 Bit processor with minimum RAM of 4 GB	Philips India Ltd	The latest computer should be offered with 32 Bit processor with minimum RAM of 4 GB	6. Operator Console: a. The latest computer should be offered with 32 Bit processor with minimum RAM of 4 GB
9	Page 69 Para 6.a	6. Operator Console: a. The latest computer should be offered with 64 Bit processor with minimum RAM of 4 GB	WIPRO GE HEALTHCARE	<add>The Workstation should be OEM (original equipment manufacturer) and not third party provided. Should have dual monitor configuration of minimum 19 inch monitors.	

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Page 1 of 4

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Sl. No	Tender Page & Para	TENDER SPECIFICATION	NAME OF THE FIRM	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION
10	Page 70 Para 7.a	7. Spiral Scan: a. Should generate 128 or more slices per rotation with slice thickness of 0.625mm or lower for all types of applications	ERBIS ENGINEERING CO. LTD	We request you to kindly amend the specs as "Should generate 128 or more slices, with 64 rows detector , per rotation with slice thickness of 0.625mm or lower for all types of applications"	no change considered.
11	Page 70 Para 7.b	7. Spiral Scan: b. The scan time for a 360 Degree rotation should be 0.35 second or lower	Philips India Ltd	The scan time for a 360 Degree rotation should be 0.40 second or lower	7. Spiral Scan: b. The scan time for a 360 Degree rotation should be 0.40 second or lower
12	Page 70 Para 8.c	8. Dose Reduction: c. Latest Modality based Iterative Reconstruction Technique to be quoted as standard (Admirer/Asir-V/IMR/or equivalent). Certified document showing extent of dose reduction by these techniques should be attached	Siemens Healthcare	Request you to amend as " c. Latest Modality based Iterative Reconstruction Technique to be quoted as standard (Saffire/Asir-V/IMR/or equivalent). Certified document showing extent of dose reduction by these techniques should be attached "	8. Dose Reduction: c. Latest Raw Data based Iterative Reconstruction Technique to be quoted as standard
13	Page 70 Para 9.a	9. Image Reconstruction: a. Real Time reconstruction speed should be 35 images/sec or more	Philips India Ltd ERBIS ENGINEERING CO. LTD	Real Time reconstruction speed should be 22 images/sec or more We request you to kindly amend the specs as "Real Time reconstruction speed should be 12images/sec or more"	9. Image Reconstruction: a. Real Time reconstruction speed should be 12 images/sec or more
14	Page 70 Para 10.a	10. Image Resolution: a. The system should have a high contrast resolution of at least 15 lp/cm for axial and spiral scan 0%MTF with full 50cm FOV	W/PRO GE HEALTHCARE Siemens Healthcare	10. Image Resolution: a. The system should have a high contrast resolution of at least 18 lp/cm for axial and spiral scan 0%MTF with full 50cm FOV Request you to amend as " a. The system should have a high contrast resolution of at least 17 lp/cm for axial and spiral scan 0% MTF with full 50cm FOV "	10. Image Resolution: a. The system should have a high contrast resolution of at least 17 lp/cm for axial and spiral scan 0%MTF with full 50cm FOV
15	Page 71 Para 12.c	12. Archival (Operator Console): c. Software for Remote Diagnostics Service over a telephone line.	ERBIS ENGINEERING CO. LTD	Remote Diagnostics Service over a telephone line shall be an optional feature and preferred if available	no change considered.
16	Page 71 Para 13.d	13. Post Processing and reporting with Client Server Architecture d. Server Hardware: Dell/HP/IBM dual CPU; RAM- 64 GB minimum;	Philips India Ltd	Server Hardware: Dell/HP/IBM dual CPU; RAM- 32 GB minimum;	13. Post Processing and reporting with Client Server Architecture d. Server Hardware: Dell/HP/IBM dual CPU; RAM- 32 GB minimum;
17	Page 71 Para 13.d	13. Post Processing and reporting with Client Server Architecture d. Server Hardware: Dell/HP/IBM dual CPU; RAM- 64 GB minimum; Data Disc: RAID level 5; Graphical processing unit: NVIDIA GPU or equivalent; Image storage minimum 4 TB (as PACS will be there)	Siemens Healthcare	Request you to amend as " d. Server Hardware: Dell/HP/IBM dual CPU; RAM- 64 GB minimum; Data Disc: RAID level 5; Graphical processing unit: NVIDIA GPU or equivalent; Image storage minimum 2.5 TB (as PACS will be there)	13. Post Processing and reporting with Client Server Architecture d. Server Hardware: Dell/HP/IBM dual CPU; RAM- 64 GB minimum; Data Disc: RAID level 5; Graphical processing unit: NVIDIA GPU or equivalent; Image storage minimum 2.5 TB .
18	Page 71 Para 15.c	15. Advanced applications (one floating user license for each application). c. Dental CT: high-resolution evaluation of teeth and jaws with automatic panoramic and paraxial reconstruction, evaluation of mandibular canal and life size filming.	ERBIS ENGINEERING CO. LTD	We request you to kindly amend the specs as follows: "Dental CT: high-resolution evaluation of teeth and jaws with automatic panoramic and paraxial reconstruction, evaluation of mandibular canal and life size filming. It should be available either on Main console if feature is unavailable at w/stn. "	no change considered.
19	Page 71 Para 13.d	13. Post Processing and reporting with Client Server Architecture d. Server Hardware: Dell/HP/IBM dual CPU; RAM- 64 GB minimum; Data Disc: RAID level 5; Graphical processing unit: NVIDIA GPU or equivalent; Image storage minimum 4 TB (as PACS will be there)	Siemens Healthcare	Request you to amend as " d. Server Hardware: Dell/HP/IBM dual CPU; RAM- 64 GB minimum; Data Disc: RAID level 5; Graphical processing unit: NVIDIA GPU or equivalent; Image storage minimum 2.5 TB (as PACS will be there)	13. Post Processing and reporting with Client Server Architecture d. Server Hardware: Dell/HP/IBM dual CPU; RAM- 64 GB minimum; Data Disc: RAID level 5; Graphical processing unit: NVIDIA GPU or equivalent; Image storage minimum 2.5 TB .
20	Page 71 Para 15.c	15. Advanced applications (one floating user license for each application). c. Dental CT: high-resolution evaluation of teeth and jaws with automatic panoramic and paraxial reconstruction, evaluation of mandibular canal and life size filming.	ERBIS ENGINEERING CO. LTD	We request you to kindly amend the specs as follows: "Dental CT: high-resolution evaluation of teeth and jaws with automatic panoramic and paraxial reconstruction, evaluation of mandibular canal and life size filming. It should be available either on Main console if feature is unavailable at w/stn. "	no change considered.

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21	Page 72 Para 15.d	15. Advanced applications (one floating user license for each application). d. Tumor Comparison: Four time point comparison with previous Imaging studies using RECIST criteria, PET CT cross time point evaluation, quantification of tumor growth rates.	Siemens Healthcare	Request you to amend as " d. Tumor Comparison: Quantification of tumor growth rates between time points , 8 time point visualization and synchronized navigation with previous imaging studies using RECIST criteria, PET CT cross time point evaluation, quantification of tumor growth rates. "	no change considered.
22	Page 72 Para 15.e	15. Advanced applications (one floating user license for each application). e. Multimodality Image fusion: between PET-CT, PET-MR, CT-MR, MR-SPECT, MR-MR, MR-US, CT-US etc.	Siemens Healthcare	Request you to amend as " e. Multimodality Image fusion: between PET-CT, PET-MR, CT-MR, MR-SPECT, MR-MR etc. "	15. Advanced applications (one floating user license for each application). e. Multimodality Image fusion: between PET-CT, PET-MR, CT-MR, MR-SPECT, MR-MR etc.
23	Page 72 Para 15.f	15. Advanced applications (one floating user license for each application). f. Colonography: Noninvasive evaluation of the entire colon including external and endoscopic SSD views, 3D VR views and virtual dissection views	Siemens Healthcare	Request you to amend as " f. Colonography: Noninvasive evaluation of the entire colon including external and endoscopic SSD views, 3D VR views and virtual dissection views automated computer assisted reader for polyp detection "	no change considered.
24	Page 72 Para 16.c	16. Accessories c. Dual Head Pressure Injector of reputed make with 50 sets of Syringes & 200 sets of tubings. Specify the make of Injector. Unit price of syringe and tubings to be quoted separately for additional requirement.	Anaecon India Healthcare	This indicates that you are allowing reuse of the syringes for 4 patients where as the syringes are for single use and disposable accordingly the syringes should be as many as the patient tubes. Further new technology injectors which are syringeless are also available now and for center of excellence like NCI under AIIMS these should be considered. AIIMS Delhi has already taken syringeless injectors which are working very efficiently for them saving lot of costs and contrast. These result in better workflow and no exposure of the contrast while loading in syringes thereby reducing contrast related allergy cases. Accordingly as an alternative a Triple Head syringeless injector with 50 Pump hose and 200 patient tubes should also be asked for as an alternative.	16. Accessories c. Triple Head Syringeless Pressure Injector of reputed make with 100 no.s Pump Hose & 500 no.s patient tubings. Specify the make of Injector. Unit price of syringe and tubings to be quoted separately for additional requirement.
25	Page 72 Para 18.a	18. Installation a. It should also include Lead lined door with lead glass peeping window, radiation warning indicators and signages, Aluminium false ceiling , GVT floor tiles and full height wall tiles. All turnkey work should comply with specified standards of the hospital.	Siemens Healthcare	Request you to amend as "It should also include Lead lined door with lead glass peeping window, radiation warning indicators and signages, Grid/Gypsum false ceiling , GVT floor tiles and full height wall tiles. All turnkey work should comply with specified standards of the hospital.	no change considered.


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26	Page 72 Para 18.b	18. Installation b. Necessary furniture and fixtures for comfortable working conditions, storage of system components and consumable stand for protective aprons and gonad shields. etc. should be provided.	Siemens Healthcare	Request you to amend as " Following furniture to be provided a.Revolving chairs height adjustable, medium-back with hand-rest – 4 NOS. b.Cupboard with laminate door shutters for storage of spare parts and accessories and records (300 X 50x40 cm) requirement. – 3 NOS. c.Drug trolleys - 1 NOS d.Patient trolley with rubber foam mattress - 1 NOS. e.Name boards for all rooms f.Tables for Workstation and Radiologist - 2 NOS. g.Dustbins: 10 NOS."	ADDED PARA:SITE MODIFICATION - 128 slice CT , Details of scope of work to be added to the technical specifications
27	Page 72 Para 18.c	18. Installation c. Power and Air-conditioning requirement must be mentioned. AC of adequate capacity should be provided. Power supply by the institute will be terminated at existing point. All electrical provisions including earthing etc. will be vendor's responsibility.	Siemens Healthcare	Request you to amend as "Total 18 TR (12 TR Working+6 TR Standby) Ductable Split Units / Split Air-conditioning that is required for the CT equipment, examination room, Patient prep and Console areas have to be installed by the vendor. Humidity control should be effective to eliminate moisture condensation on equipment surface. The outdoor units of AC should have grill coverings to prevent theft and damage." The supplier shall be required to specify the total load requirements for the CT Scan area including the load of air conditioning, room lighting and for the accessories if any. The supply line will be provided by the institute up to one point within the CT Scan area. The distribution panel for UPS, CT Scan area shall be provided by the vendor. Few lights in each room shall be connected to the UPS to provide emergency lighting. The electrical work shall include the following: a. Wiring – All interior electrical wiring- with main distribution panel board, necessary MCBs, DB, joint box, switch box etc. the wires shall be of copper of different capacity as per the load and should be renounced make as listed below. b. Switches light and power points should be of modular type and of standard make as listed below. c. General lights –LED light fittings with minimum 500 Lux Illumination.	ADDED PARA:SITE MODIFICATION - 128 slice CT , Details of scope of work to be added to the technical specifications
28		Suggested by Bidder	Siemens Healthcare	To be added in the tender Location for installation of UPS along with batteries and wash basin to be added in layout plan	clarified during pre-bid
30	PAGE 72 PARA 20.	20. Instructions		20.1 : There should be at least three installations of the quoted model in India. Satisfactory performance certificate by users on their letterhead must be attached.	20. Instructions : 20.1 : There should be at least three installations of the quoted model globally. Satisfactory performance certificate by users on their letterhead must be attached.
29	PAGE 72 PARA 20.	20. Instructions		ADDED PARA	20. Instructions : 20.e : Original Product Datasheet of main unit and all accessories, including third party items to be provided.
	PAGE 72 PARA 16.	16. Accessories		ADDED PARA 16. Accessories 16.F : Crash cart - 1 no.	

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Site Modification Scope of Work – 128 SLICE CT

1	<p>The vendor should inspect the site at NCI, Jhajjar, before quoting and ensure that the unit can be installed in the available space without any functional compromise.</p> <p>The Site drawing of the Institute can be obtained from the Project office of NCI - AIIMS, room no. 161, 1st floor, DBRAIRCH, AIIMS campus, New Delhi.</p> <p>Complete equipment layout site plan and details of work (BOQ) should be part of technical bid.</p> <p>Provisions should be made for placing the various accessories in console room, work-station and printer locations.</p> <p>It should also include Lead lined door with lead glass peeping window, radiation warning indicators and signage, Aluminium false ceiling, GVT floor tiles and wall tiles/painting.</p> <p>All site modification works should comply with specified standards of the hospital.</p>
2	While preparing the plan, the following aspects have to be addressed.
a)	Care should be taken to provide easy negotiation of the patient stretchers/ trolleys through corridors and doors.
b)	Radiation shielding for doors, walls, windows etc.
c)	Furniture like desk, chairs, shelves etc.
d)	Patient stretcher and other furniture/ accessory to make the scan centre functional.
3	The cost of Site Modification will be considered for Ranking / Evaluation purpose.
4	Moreover Bidders will have to quote the Unit Rates of the following components of Site Modification work.
a)	Civil works
b)	Electrical work
d)	Air Conditioning (HVAC)
e)	Interior Furnishing & Furniture
f)	Miscellaneous
g)	Fire alarm & Detector
	Scope of work for Site Modification CT unit :-
	The supplier should inspect the proposed site and submit all the detailed equipment layout drawing and BOQ for the proposed CT Scan Centres.
5	The CT SCAN CENTRE shall consist of the following rooms:
a.	CT Gantry Room
b.	Console room
c.	Equipment room
d.	UPS room / Electrical room
e.	Patient preparation & Change room
	The actual area of Site Modification works done will be considered for payment, based on the unit rates and site measurements
6	Civil work
a)	Civil construction work including construction of brick wall if any, plastering, flooring as per the approved plan and equipment layout plan.
b)	Concrete bed at CT equipment area.
c)	Platform for unloading and shifting the CT should be provided if necessary.
d)	Cable tray, trench & channel – necessary trenches, cable tray and channels at required location would be provided.
e)	All the construction work to be done as per the final plan approved by the Institute.
f)	False Ceiling-to-floor ceramic wall tiling in : CT Gantry Room , Console room , Patient preparation & Change room.
7	Flooring
a)	600 x 600 mm vitrified tiles with 100mm tile skirting to match in CT examination room, console room.

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b)	50 mm thick cement concrete flooring with (eg. Armstrong, Gerflor, Tarkett) CT equipment & UPS room.
8	Painting
a)	Two coats Plastic Emulsion Paint over 2 coats of wall putty including primer in Equipment & UPS rooms.
9	False Ceiling
a)	Lightweight Aluminium ceiling panels , acoustical-treated, supported on grid or finished seamless with support above ceiling. Powder coated finish (colour to be approved by Institute). Ceiling height to suit the equipment mount and clearances.
10	Electrical work
a.	The supplier shall be required to specify the total load requirements for the CT scan centre including the load of air conditioning , room lighting and for the accessories if any. The supply line will be provided by the Institute up to one point within the CT Scan centre area. The distribution panel shall be provided by the vendor. Few lights in each room shall be connected to the UPS to provide emergency lighting.
b.	The electrical work shall include the following:
c.	Wiring – All interior electrical wiring- with main distribution panel board, necessary MCBs, DB, joint box, switch box etc. the wires shall be of copper of different capacity as per the load and should be renowned make as listed below.
e.	Switches light and power points should be of modular type and of standard make as listed below.
f.	General lights – LED light fittings with 500 Lux Illumination
11	AIR CONDITIONING: minimum 14 TR (9 TR Working + 5 TR Standby)
a.	Duct-able package air conditioners and split AC units may be used according to room requirement and suitability. Humidity control should be effective to eliminate moisture condensation on equipment surface. The Air conditioning should be designed with standby provision to function 24 hours a day.
b.	The outdoor units of AC should have grill coverings to prevent theft and damage.
c.	Environment specifications:
i.	Relative Humidity range: To be maintained between 60% and 80% in all areas except equipment room ; which shall be as per requirement of the equipment.
ii.	Temperature ranges: 22± 2° C in all areas except equipment room which shall be as per requirement of the equipment.
iii.	Air conditioning load: The heat load calculations and maintaining the desired temperature and humidity shall be the responsibility of the bidder.
12	Furniture:
a)	Revolving chairs height adjustable, medium-back with hand-rest in the Control room, Radiologist room and viewing area. – 4 NO.S
b)	Chairs for patient waiting area – Three seater (chrome plated). - 10 NO.S
c)	Cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement. – 3 NO.S
d)	Drug trolleys – 1 NO.
e)	Patient trolley with rubber foam mattress - 1 NO
f)	Name boards for all rooms
g)	Tables for Workstation and Radiologist - 2 NO.S
h)	Changing rooms should have change lockers and dressing table.
i)	Dustbins: 10 NO.S
	All furniture items should be of standard make as mentioned in the table below.
13	Miscellaneous:
i.	LED X-ray Film viewer with adjustable brightness; capable of holding 3 films of 14"x17" size. – 2 no.s
ii.	Cabling of Network (LAN) connectivity for camera system, console system, workstation, servers and computers etc.
iii.	Cabling for Broadband connection: for REMOTE SERVICE of CT system.
14	Fire alarm & Detector:

i.	Fire alarm (along with new/existing panel) should be provided in all rooms, wherever site modification is being carried out. Fire alarm shall comprise of fire panel, smoke / heat detectors. The vendor should discuss with the engineering section and the department before quoting for Site-Modification	
ii.	Fire extinguisher Dry CO2 type as required for the building safety. – One per room	
15	LIST OF ITEMS AND SUGGESTED MANUFACTURERS.	
	ITEMS	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 CONDITIONING	- Daikin, Hitachi, Blue Star, Voltas,
G	FURNITURE	- Hermen Miller , Godrej , Featherlite, Geeken

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Dr. Chanchal Kulkarni (S.N)

Mukta

Dr. Sanjay Thakur

Roma