

Clarifications provided on associated work against tender for 'CT- 128 slice; 40 mm Detector' bearing RfX no. 300003937 under NIT ref. HITES/PCD/IITKGP/03/18-19 dated 08.03.2019

Associated work for installation of CT		Clarifications provided by End User against each description if the scope(s) are included for bidder (Yes/No, with comments, if any)
1	The scope of work includes complete Civil work, Electrical, Plumbing, Furnishing, Air-conditioning and Fire fighting for the construction of CT Scan Centre.	All work completed by Client except furnishing
2	While preparing the plan, the following aspects are to be addressed.	
a)	Care should be taken to provide easy negotiation of the patient stretchers/ trolleys through corridors and doors.	Taken care of
b)	Radiation shielding for doors, walls, windows etc.	Yes
c)	Furniture like desk, chairs, shelves, etc.	To be done by IIT
d)	Patient stretcher and other furniture/ accessories to make the scan centre functional.	To be done by IIT
3	The cost of Site Modification for an area of 100 sqm (say), and Air-conditioning of 15 TR (say) will be considered for Ranking / Evaluation purpose. Total capacity of the Air-Conditioning (duct-able) for the entire CT scan centre area should be at least 15 TR. (which includes standby air-conditioning) with humidity control between 55-60 % RH	Air-conditioning installed
4	Bidders should quote the Unit Rates of the following components of site modification work so that any exclusion or extra inclusion could be computed after execution	
a)	Civil works	Not needed
b)	Electrical work	Not needed
c)	Public health (plumbing and sanitary fittings).	Not needed
d)	Air Conditioning (HVAC)	Not needed
e)	Interior Furnishing & Furniture	Needed
f)	Miscellaneous	Not needed
g)	Fire Detection system (consisting fire panel, smoke & heat detectors, hooters, response indicators etc.) for the entire CT area	Not needed
5	The CT SCAN CENTRE shall consist of the following rooms:	
a)	CT Gantry Room	Yes; present
b)	Console room	Yes; present

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c)	Equipment room	Space present
d)	Patient preparation room cum change room	To be done by IIT
e)	Radiologist room (if space available)	Available
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.	Completed
b)	Concrete bed at CT equipment area.	Completed
c)	Platform for unloading and shifting the CT should be provided if necessary.	By supplier
d)	Cable tray, trench & channel – necessary trenches, cable tray and channels at required location would be provided.	By supplier
e)	All the construction work to be done as per the final plan approved by the Consignee.	
f)	Flooring	
	600 x 600 mm vitrified tiles with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.	A. CT Room & Console Room: Flooring upto IPS standards has been completed by IIT. Balance by CT Supplier.
	50 mm thick cement concrete flooring with Vinyl flooring in CT equipment / UPS room.	B. Lobby (Passage Area): Flooring upto Granite standards has been completed by IIT.
g)	Painting	
	Two coats Plastic Emulsion Paint over 2 coats of wall putty including primer in patient preparation area, Lobby area, console room, CT Gantry & Equipment room etc.	A. CT Room & Console Room: Finishing upto Putty standards has been completed by IIT. Balance by CT Supplier
h)	False Ceiling	
	Acoustical tile for ceiling with light weight insulating material of high quality supported on grid or finished seamless with support above ceiling. Finished with white paint or powder coated with white paint, if metallic. Ceiling height to suit the equipment mount and clearances.	A. CT Room & Console Room: No work by IIT. Balance by CT Supplier
i)	Plumbing work	
	All water pipes and fittings shall be of high density polythene of approved and standard make. The gratings shall be brass chrome plated. All plumbing accessories should be of standard make.	A. CT Room & Console Room: No Plumbing provision by IIT. Balance by CT Supplier
	Hot water service to be provided if required.	

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7	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.	A. CT M/c Electrical /UPS Room: Incomer panel with 400 Amp MCB installed by IIT. Balance by CT Supplier.
b)	The electrical work shall include the following:	
	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.	
	Switches light and power points should be of modular type and of standard make as listed below.	
	General lights – LED light fittings with 500 Lux Illumination	
8	AIR CONDITIONING:	
	Ductable 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.	A. CT M/c Electrical /UPS Room: Ducting of AC units has been installed by IIT. Balance work will be completed after false ceiling by CT Supplier.
	The outdoor units of AC should have grill coverings to prevent theft and damage.	
	Ventilation is required in toilet.	
	Environment requirement:	
	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.	
	Temperature ranges: 22± 2° C in all areas except equipment room which shall be as per requirement of the equipment.	
	Air conditioning load: The heat load calculations and maintaining the desired temperature and humidity shall be the responsibility of the bidder.	
9	Furniture:	
a)	Revolving chairs height adjustable, medium-back with hand-rest in the Control room, Radiologist room and viewing area. – 4 Nos.	All will be done by IIT
b)	Cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement. – 3 Nos.	

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c)	Drug trolleys 1 numbers for patient preparation area.	
d)	Patient trolley with rubber foam mattress to be kept in the patient preparation room.	
e)	Name boards for all rooms	
f)	Tables for Workstation and Radiologist - 2 Nos.	
g)	Changing rooms should have change lockers and dressing table.	
h)	Dustbins: 10 nos.	
i)	Any other furniture item as per requirement.	
10 Miscellaneous:		
a)	LED X-ray Film viewer with adjustable brightness ; capable of holding 3 films of 14"x17" size. – 2 nos.	
b)	Cabling of Network (LAN) connectivity for camera system, console system, workstation and computers etc.	
c)	Broadband connection: for REMOTE SERVICE of CT system.	
d)	Fire extinguisher Dry CO2 type as required for the building safety.	
LIST OF ITEMS AND SUGGESTED MAKE		
	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	
	CABLES	Finolex, Havells,V-Guard
	SWITCHES	Legrand, L&T, Crabtree , Roma
	DISTRIBUTION BOX , MCB	Legrand, L&T, Siemens, Havels
	LIGHT FITTINGS	Philips / Crompton / Wipro/syska
F	AIR CONDINTIONING	Daikin, Hitachi, Blue Star, Voltas,
G	FURNITURE	Hermen Miller, Godrej, Featherlite,Geeken