

Amendment No. XVIII Dated 22.05.2018

HSCC/PUR/CNCI/Kolkata/Medical Equipment/03 dt. 15.11.2017

Procurement of Medical Equipment CNCI 2nd Campus

All bidders are requested to note the following:

Updated Specification for Turnkey works

Item No.2. CT Scan 256 Slice

The Turnkey Scope of Work - CT	
1	The Supplier should inspect the proposed site offered by the Consignee Institute in which the CT system has to be installed and they are required to submit the plan for the complete CT Scan Centre on a turnkey basis. The scope of work includes complete Civil work, Electrical, Plumbing, Furnishing, Air-conditioning and Fire fighting for the construction of CT Scan Centre.
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.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 Consignee.
f)	Active and passive room shielding for magnetic, fringe field should be provided as per the requirement of the equipment.
a)	Flooring
1	600 x 600 mm vitrified tiles with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.
2	50 mm thick cement concrete flooring with Vinyl flooring in CT equipment / UPS room.
b)	Painting
1	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.
c)	False Ceiling
1	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.
Plumbing work	
1	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.
2	Hot water service to be provided if required.
Electrical work	

1	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.
2	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 renowned 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 500 Lux Illumination
3	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.
	The outdoor units of AC should have grill coverings to prevent theft and damage.
	Ventilation is required in toilet.
2	Environment specifications:
a)	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.
b)	Temperature ranges: 22± 2° C in all areas except equipment room which shall be as per requirement of the equipment.
c)	Air conditioning load: The heat load calculations and maintaining the desired temperature and humidity shall be the responsibility of the bidder.
	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 for patient preparation area -1 NO.S
e)	Patient trolley with rubber foam mattress to be kept in the patient preparation room-2 NO.S
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- 1 SET
i)	Dustbins: 10 no.s
j)	Room Signage- as per requirement
k)	Any other furniture item as per requirement.
	All furniture items should be of standard make as mentioned in the table below.
	Miscellaneous:
1	Cabling of Network (LAN) connectivity for camera system, console system, workstation and computers etc as required.
3	Broadband connection: for REMOTE SERVICE of CT system.
4	Fire extinguisher Dry CO2 type as required for the building safety as required
	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 CONDINTIONING - Daikin, Hitachi, Blue Star, Voltas,
G	FURNITURE - Hermen Miller , Godrej , Featherlite,Geeken

Please also refer to the Technical specification for any other accessories.

Item No.3. Digital Mammography

Tender Specification	Amended as
4. AIR CONDITIONING: a. Package air conditioners units and split AC units may be used according to room requirement and suitability.	a. Package air conditioners units or split AC or duct able split units may be used according to room requirement and suitability.

Item No.4. Digital Fluro Radiography

Scope of work for turnkey Digital Fluro Radiography
The Turnkey Scope of Work – DRF
1. The Supplier should inspect the proposed site offered by the Consignee Institute in which the DRF system has to be installed and they are required to submit the plan for the complete DRF Centre on a turnkey basis. The scope of work includes complete Civil work, Electrical, Plumbing, Furnishing, Air-conditioning and Fire fighting for the construction of DRF Centre.
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 DRF centre functional.
1. Civil work
i. Civil construction work including construction of brick wall if any, plastering, flooring as per the approved plan and equipment layout plan.
ii. Concrete bed at DRF equipment area.
iii. Platform for unloading and shifting the DRF should be provided if necessary.
iv. Cable tray, trench & channel – necessary trenches, cable tray and channels at required location would be provided.
v. All the construction work to be done as per the final plan approved by the Consignee.
a. Flooring
i.600 x 600 mm vitrified tiles with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.
ii. 50 mm thick cement concrete flooring with Vinyl flooring in DRF equipment / UPS room.
b. Painting
Two coats Plastic Emulsion Paint over 2 coats of wall putty including primer in patient preparation area, patient waiting area, console room, DRF room & Equipment room etc.
c. 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.

2. 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.

3. Electrical work

a. The supplier shall be required to specify the total load requirements for the DRF centre including the load of air conditioning , room lighting and for the accessories if any.

b. The supply line will be provided by the Institute up to one point within the DRF centre . The distribution panel shall be provided by the vendor. Few lights in each room shall be connected to the UPS to provide emergency lighting.

c. The electrical work shall include the following:

i. 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.

ii. Switches light and power points should be of modular type and of standard make as listed below.

iii. General lights – LED light fitting with 500 Lux Illumination

4. AIR CONDITIONING:

a. Package air conditioners units 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. Ventilation is required in toilet.

5. Environment specifications:

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: $22 \pm 2^{\circ}$ 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.

6. 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 for patient preparation area. – 1 No.

e. Patient trolley with rubber foam mattress to be kept in the patient preparation room- 2 NO.S

f. Name boards for all rooms

g. Tables for Workstation and Radiologist - 2 NO.

h. Changing rooms should have change lockers and dressing table- 1 SET

i. Dustbins – 10 No's.

j. Any other essential furniture item as per requirement.

All furniture items should be of standard make as mentioned in the table below.

7. Miscellaneous:

a. LED X-ray Film viewer with adjustable brightness; capable of holding 3 films of 14"x17" size. – 2 no.s

b. Cabling of Network (LAN) connectivity for camera system, console system, workstation and computers etc.

c. Fire extinguisher Dry CO2 type as required for the building safety.	
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 CONDINTIONING - Daikin, Hitachi, Blue Star, Voltas,
G	FURNITURE - Hermen Miller , Godrej , Featherlite,Geeken

Please also refer to the Technical specification for any other accessories

All other terms and conditions of the tender enquiry document shall remain unchanged.

Prospective bidders are advised to regularly visit HSCC website/ CPP as corrigendum /amendments etc. if any, will be notified on this portal only, no separate advertisement will published in the news papers.

**Sr. Chief General Manager-I, HSCC (I) Ltd
For & on behalf of Director CNCI, Kolkata**