

Schedule No. 05 - Digital Flat Panel Radiography Fluoroscopy System (Rfx no. 3000002193)

Sl. No	Tender Page & Para	TENDER SPECIFICATION	NAME OF THE FIRM	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION
1	Page 81	The Unit should be (USFDA approved and European CE certified) digital flat panel radiography-fluoroscopy system, for the radiography, contrast studies, diagnostic and interventional fluoroscopy. The Unit should be AERB approved.	Philips India Ltd	The Unit should be (USFDA approved and European CE certified) digital flat panel radiography-fluoroscopy system, for the radiography, contrast studies, diagnostic and interventional fluoroscopy. The Unit should be AERB/NOC from AERB approved.	The Unit should be (USFDA approved and European CE certified) digital flat panel radiography-fluoroscopy system, for the radiography, contrast studies, diagnostic and interventional fluoroscopy. <u>Model which do not have AERB Approval may be supplied with the undertaking that the supplier shall be responsible for obtaining the AERB Type approval of the system within reasonable time, at no cost nor liability to the Institute.</u>
2	Page 81 Para 1.3	1. Table: 1.3 Continuously motorized remotely controlled longitudinal and transverse and vertical movements. Please specify the range of movements	Philips India Ltd	Continuously motorized remotely controlled longitudinal movement of tabletop/detector and transverse and vertical movements. Please specify the range of movements	1. Table: 1.3 Continuously motorized remotely controlled transverse and vertical movements. Continuously motorized remotely controlled Longitudinal Movement of Tabletop or Detector. Please specify the range of movements .
3	Page 81 Para 2.3	2. Digital Detector for Fluoroscopy & Direct Radiography: 2.3 DOE at least 65% at 0lp/mm	Siemens Healthcare	Request you to please amend the specification as "DOE at least 65% at 0.05 lp/mm"	2. Digital Detector for Fluoroscopy & Direct Radiography: 2.3 DOE at least 65% (at 0 lp/mm or 0.05 lp/mm).
4	Page 82 Para 5.4	5 X-Ray Tube: 5.4 Rotation of X-ray tube assembly +/- 90 degree or more.	Philips India Ltd	Rotation of X-ray tube assembly +/- 40 degree or more.	5 X-Ray Tube: 5.4 Rotation of X-ray tube assembly +/- 40 degree or more.
5	Page 82 Para 6.6	6 Direct Digital Imaging System for fluoroscopy 6.6 Provision for translateral radiography	Siemens Healthcare	Request you to please delete the specification	deleted
6	Page 82 Para 7.7	7 Control Console, Image Processing, Image display, Image storage system and Transmission 7.7 Image processing functions: The system should have facility for edge enhancement, positive / negative image display, windowing, contrast/ brightness, electronic shuttering, image/ pixel shifting, vertical and horizontal image reversal, text input, roam and zoom	Philips India Ltd	kindly delete "pixel shifting"	7 Control Console, Image Processing, Image display, Image storage system and Transmission 7.7 Image processing functions: The system should have facility for edge enhancement, positive / negative image display, windowing, contrast/ brightness, electronic shuttering, image/ pixel shifting, vertical and horizontal image reversal, text input, roam and zoom
7			Siemens Healthcare	Request you to please kindly delete the "Image / Pixel shifting" Justification – Image /Pixel Shifting is feature of DSA which has not asked in specification.	
8	Page 83 Para 8.1	8 Essential accessories 8.1 Six light weight AERB approved lead aprons with steel stand, Six thyroid shields, three sets of Paediatric and adult gonadal shields (All sizes both for male and female and ultralight weight)	Siemens Healthcare	Please clarify the details of gonadal shield	8 Essential accessories 8.1 Six light weight AERB approved "ZERO LEAD" aprons with steel stand, Six thyroid shields, Two sets each of ultralight Paediatric and Adult gonadal shields (Each set to contain : Gonadal shields for both male and female , All sizes)

Schedule No. 05 - Digital Flat Panel Radiography Fluoroscopy System (Rfx no. 3000002193)

Sl. No	Tender Page & Para	TENDER SPECIFICATION	NAME OF THE FIRM	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION
9	Page 83 Para 8.4	8 Essential accessories 8.4 Paediatric immobilizer	Siemens Healthcare	Request you to please delete the same Justification – In Point No. 8.7 at page No. 83 you have already asked for patient fixing belt and compression device.	clarified during pre-bid.
	Page 83 Para 8.10	8 Essential accessories added para- 8.10 :		added para. 8.10 :	8 Essential accessories added para. 8.10 : Crash cart - 1 no.
10	Page 83 Para 9.1	9 Installation 9.1 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 the specification – "GVT floor tiles and full height vitrified wall tiles of size 600mmx600mm in Control room, Change room and DRF Room. All turnkey work should comply with specified standards of the hospital."	ADDED PARA: SITE MODIFICATION - DIGITAL RADIOGRAPHY - FLUOROSCOPY SYSTEM, Details of scope of work to be added to the technical specifications
11	Page 83 Para 9.2	9 Installation 9.2 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 in x-ray room	Siemens Healthcare	Request you to please clarify all required furniture. We suggest for Following furniture details to be added in specification a) Revolving chairs height adjustable, medium-back with hand-rest – 4 NOS c) Cupboard with laminate door shutters for storage of spare parts and accessories and records (300 x 50x40 cm) requirement. – 3 NOS d) Drug trolleys - 1 NOS e) Patient trolley with rubber foam mattress - 1 NOS f) Name boards for all rooms g) Tables for Workstation and Radiologist - 2 NOS i) Dustbins: 10 NOS	ADDED PARA: SITE MODIFICATION - DIGITAL RADIOGRAPHY - FLUOROSCOPY SYSTEM, Details of scope of work to be added to the technical specifications
12	Page 83 Para 9.3	9 Installation 9.3 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 please clarify all required power and air-conditioning details. We suggest for Following points must be add in existing specification. The supplier shall be required to specify the total load requirements for the DRF 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 DRF Scan area. The distribution panel for UPS, DRF 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 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 minimum 500 Lux Illumination. Total 9 TR (6 TR Working+3 TR Standby) Ductable Split Units / Split Air-conditioning that is required for the DRF equipment, examination room 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.	ADDED PARA: SITE MODIFICATION - DIGITAL RADIOGRAPHY - FLUOROSCOPY SYSTEM, Details of scope of work to be added to the technical specifications

Schedule No. 05 - Digital Flat Panel Radiography Fluoroscopy System (Rfx no. 3000002193)

Sl. No	Tender Page & Para	TENDER SPECIFICATION	NAME OF THE FIRM	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION
13	Page 84 Para 11.1	11 Instructions 11.1 There should be at least three installations of the quoted model in India. Satisfactory performance certificate by users on their letterhead must be attached.	Philips India Ltd	There should be at least three installations of the quoted model in India/abroad. Satisfactory performance certificate by users on their letterhead must be attached.	11 Instructions 11.1 There should be at least three installations of the quoted model globally. Satisfactory performance certificate by users on their letterhead must be attached.
14		Suggested by Bidder	Siemens Healthcare	Point to be added: At least two out of three main components (X-ray tube, generator and detector) should be from principle manufacturer. Representation: To ensure smooth and continuous performance of the equipment over life cycle of the equipment.	no change considered
15			Philips India Ltd	Request to add in first para: At least two components (X-Ray tube, generator & detector) should be from principal manufacturer.	
16		Suggested by Bidder	Siemens Healthcare	To be added in the tender location for installation of 150KVA UPS along with batteries to be added in layout plan.	clarified during pre-bid.
17		Suggested by Bidder	Siemens Healthcare	To be added Fire detection system – Comprises of fire panel, smoke / heat detectors.	ADDED PARA: SITE MODIFICATION - DIGITAL RADIOGRAPHY - FLUOROSCOPY SYSTEM, Details of scope of work to be added to the technical specifications
18		added para:			Original Product Datasheet of main unit and all accessories, including third party items to be provided.

Dr. Sanjay Kumar

11.1.1

for 11.1

88

11.1.1

Dr. Sanjay Kumar

Dr. Sanjay Kumar

Dr. Sanjay Kumar

Dr. Sanjay Kumar

Dr. Sanjay Kumar

SITE MODIFICATION - DIGITAL RADIOGRAPHY- FLUOROSCOPY SYSTEM

1	<p>Supplier shall ensure that the equipment model quoted is commissioned within the designated area of NCI, without major structural changes to the building.</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>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>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. 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.</p> <p>All site modification works should comply with specified standards of the hospital.</p>
2	<p>The scope of work for site modification of Digital Radiography - Fluoroscopy System shall consist of the following rooms:</p> <p>a) Digital Radiography - Fluoroscopy Examination Room</p> <p>b) Console room</p> <p>c) Digital Radiography - Fluoroscopy equipment / UPS room.</p> <p>e) Patient change room/area</p>
3	<p>Moreover Bidders will have to quote the Unit Rates of the following components of Site Modification work.</p> <p>a) Civil works</p> <p>b) Electrical work</p> <p>c) Air Conditioning (HVAC)</p> <p>d) Fire Alarm & Detector</p> <p>e) Interior Furnishing & Furniture</p>
3	<p>The area considered for Site Modification for item: Digital Radiography - Fluoroscopy System is indicated in the site plan attached below as Annexure 1.</p>
4	<p>Civil work</p> <p>a) Civil construction work including construction/ modification/ demolition of brick wall if any, plastering, flooring as per the approved plan and equipment layout plan.</p> <p>b) Additional strengthening of floor , ceiling structure for equipment , if required</p> <p>c) Platform for unloading and shifting the Digital Radiography - Fluoroscopy System should be provided if necessary.</p> <p>d) Cable tray, trench & channel – necessary trenches, cable tray and channels at required location would be provided.</p> <p>e) All the construction work to be done as per the final plan approved by NCI Jhajjar</p> <p>f) False Ceiling-to-floor ceramic wall tiling in : Digital Radiography - Fluoroscopy Examination Room , Console room and Patient change room/area.</p>
5	<p>Flooring</p> <p>a. 600 x 600 mm glazed vitrified (GVT) tiles with 100mm tile skirting in DIGITAL RADIOGRAPHY - FLUOROSCOPY Examination room, Console room , patient change room/area.</p> <p>b. 5mm-Vinyl flooring in Digital Radiography - Fluoroscopy equipment / UPS room.</p>
6	<p>Painting</p> <p>a) Two coats Plastic Emulsion Paint over 2 coats of wall putty including primer in equipment / UPS room.</p>
7	<p>False Ceiling</p> <p>a Lightweight Aluminium ceiling panels supported on grid or finished seamless with support above ceiling. Powder coated finish (colour to be approved by Institute). The False ceiling inside RF cage as per equipment and RF cage requirement and design. Ceiling height to suit the equipment mount and clearances.</p>
8	<p>Electrical work</p> <p>a) The supplier shall be required to specify the total load requirements for the Digital Radiography – Fluoroscopy system 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 Digital Radiography - Fluoroscopy area. The distribution panel for UPS, Digital Radiography – Fluoroscopy system shall be provided by the vendor. Few lights in each room shall be connected to the UPS to provide emergency lighting.</p>

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.
d)	Switches light and power points should be of modular type and of standard make as listed below.
e)	General lights –LED light fittings with minimum 500 Lux Illumination
9	AIR CONDITIONING: minimum 9 TR (6 TR Working + 3 TR Standby)
a)	Duct-able package air conditioners may be used according to room requirement and suitability. Humidity control should be effective to eliminate moisture condensation on equipment surface.
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.
10	Furniture:
a.	Revolving chairs height adjustable, medium-back with hand-rest – 4 NO.S
b.	Cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement. – 3 NO.S
c.	Drug trolleys - 1 NO.S
e.	Patient trolley with rubber foam mattress - 1 NO.S
f.	Name boards for all rooms
g.	Tables for Workstation and Radiologist - 2 NO.S
h.	Dustbins: 10 NO.S
i.	All furniture items should be of standard make as mentioned in the table below.
11	Miscellaneous:
i.	LED X-ray Film viewer with adjustable brightness; capable of holding 3 films of 14"x17" size. – 2 no.s
12	Fire alarm & Detector:
i	(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 5kg as required for the building safety. – One per room
13	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)	ELECTRICAL
e)	CABLES - Finolex, Havells ,V-Guard
f)	SWITCHES - Legrand, L&T, Crabtree , Roma
g)	DISTRIBUTION BOX , MCB - Legrand, L&T, Siemens, Havels
h)	LIGHT FITTINGS - Philips / Crompton / Wipro/Syska
i)	AIR CONDINTIONING - Daikin, Hitachi, Blue Star, Voltas,
j)	FURNITURE - Hermen Miller , Godrej , Featherlite,Geeken.

Dr. Sanyal Thakur
H&R

all

1402

OK

OK

OK

OK

OK

OK

Roma