Response To Pre-Bid Queries (Pre-Bid date: 05.10.2017)

NIB Ref: HITES/PCD/NCI-AIIMS/02/17-18 Dated: 14.09.2017

Schedule No. 06 - Digital X-Ray Unit (Rfx no. 3000002194)

Sl. No	Tender Page & Para	TENDER SPECIFICATION	NAME OF THE FIRM	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION
1	Page 86	State of art flat panel digital radiography system with two detectors should be quoted. The unit should have **AERB Type approval** for installation and use in India, NOC only will not be accepted.	Convergent Technologies India Pvt. Ltd	Contrary to this the specification mentions that **"The unit should have AERB Type approval for installation and use in India, NOC only will not be accepted"** the type approved product only which means we will not be able to quote the latest models. As you are aware that the Type Approval from AERB are issued to products imported and commissioned in India and DR systems being high end system and have limited market, this take anywhere between 3-6 months for the product to be imported and installed in India for getting the type approval . Due to this it will be very difficult to quote the latest models due to the fact that tender has requested only type approved models to be quoted. Premium institution like PGI Chandigarh , AIIMS to name the few in order to get the latest models with latest technology they have allowed companies to quote the product with AERB NOC and in turn the institution are benefited with the New models and technology, rather than going for an older technology. The previous specification had allowed the vendors to quote their latest models and NOC was accepted, but in the current corrigendum NOC has been removed. **Hence request you reinstate the AERB NOC so that the companies can quote their latest models launched recently worldwide**, which will also benefit the institution benefits and also comply with your clause.	State of art flat panel digital radiography system with two detectors should be quoted. **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 liabilty to the Institute.**
2	Page 86	At least two out of three main components (X-ray tube, generator and detector) should be from principle manufacturer.	Convergent Technologies India Pvt. Ltd	**Needs to be removed** to help wider participation of the companies. **Explanation on why this clause is against participation of reputed companies and need for the removal:** The digital Radiography system consists of Generator, Tube, Flat Panel Detector, Software and other mechanics. The High Frequency X-ray Generator is mainly manufactured by the X-ray manufacturers only and many of them do not manufacture the X-ray tube and Detector. In case of the X-ray tube, companies choose best of the tube available in the market. With respect to Detector, Detectors are manufactured by non-X-ray Manufacturer and most of the Leading X-ray manufacturers buy these detectors from third party detector manufactures. Hence by this clause it is restricting the participation in the tender to only the X-ray Manufacturer who also manufacture the tube and thus restricting the larger participation. The tender has requested in the technical specification: " Quoted model should have European CE and USA FDA approval." so when the tender has requested for the FDA approved products, the source of components or parts is of not much significance on the over- all performance and functioning of the system. FDA product has very strict performance criteria to be passed. Hence we **request you to remove the clause "At least two out of three main components (X-ray tube, generator and detector) should be from principal manufacturer."** to enable all the International standard companies to participate who are having the FDA and CE approved products.	**Deleted**
3			Agfa HealthCare	Request you to kindly delete this clause.	
4			Prognosys Medical Systems	**Reason for change:** We would like to inform you that the tender specifications requests for USFDA and European CE as mandatory certifications for the quoted model. The CE & USFDA are the top two standards in the world for certifying products and any product having both certifications is considered technically & clinically on par with any other with same certifications & Meeting the required specifications. Hence, there is no need for such clauses like XRay Generator and tube should be from same manufacturer in the name of quality, as these are clearly restrictive and strong deterrent to other world class leaders to quote in the tender. These restrictive clauses on the contrary, ensure limited participation fostering restrictive & trade practices. **Suggested changes:** Point to be deleted	

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5	Page 86 Para 3.a	**3. Horizontal Bucky Table** **3.a)** Motor driven, adjustable height floating table top of carbon fibre or equivalent scratch resistant material.	Siemens Healthcare	Request you to please amend the specification as " Motor driven, adjustable height floating table top of carbon fibre **or composite material or equivalent** scratch resistant material. "	no change considered.
6	Page 87 Para 4.b	**4. Vertical Bucky (Wall stand)** **4.b)** Vertical detector system should be tiltable and should travel from minimum 1.3 to 6.2 feet above floor level.	Philips India Ltd	Vertical detector system should be tiltable and should travel **from mimimum 1 to 5.8 Ft.**	**4. Vertical Bucky (Wall stand)** **4.b)** Vertical detector system should be tiltable and should travel from minimum 1.3 **to 5.6** feet above floor level.
7			Siemens Healthcare	Request you to please amend the specification as " Vertical detector system should be tiltable and should travel from minimum **1.3 to 5.6 feet** above floor level."	
8	Page 87 Para 5.b	**5. Detector System** **5.b)** Two Digital flat panel detector systems with detector integrated into the Bucky table as well as wall stand.	Agfa HealthCare	kindly amend to: Two digital Flat Panel detector system **with FIXED detector** integrated into the bucky table as well as wall stand.	no change considered.
9	Page 87 Para 5.c	**5. Detector System** **5.c)** Size of detector must be 43 cm X 43 cm or more.	WIPRO GE HEALTHCARE	We humbly request to change it as : Size of detector must be **41 cm X 41 cm or more**	no change considered.
10	Page 87 Para 5.e	**5. Detector System** **5.e)** Pixels size should be 160 µm or less	WIPRO GE HEALTHCARE	We humbly request to change it as : Pixels size should be **200 µm or less**	no change considered.
11	Page 87 Para 5.g	**5. Detector System** **5.g)** Detector Quantum Efficiency (DQE) of detector system should be 65% or more at 0 line pairs DQE at 0lp/mm or 0.5lp/mm should be at least 65%.	Siemens Healthcare	Request you to please amend the specification as "Detector Quantum Efficiency (DQE) of detector system should be 65% or more at 0 line pairs DQE at **0lp/mm or 0.05lp/mm** should be at least 65%."	**5. Detector System** **5.g)** Detector Quantum Efficiency (DQE) of detector system should be 65% or more at 0 line pairs DQE at 0lp/mm or **0.05lp/mm** should be at least 65%.
12	Page 87 Para 5.h	**5. Detector System** **5.h)** Grey scale resolution should be 14bit per pixel or higher	Prognosys Medical Systems	**Reason for change:** For wider participation we request you to amend the specifications to 12 bit or more. **Suggested changes:** Grey Scale Resolution 12 Bits per pixel or more	no change considered.
13	Page 87 Para 6.h	**6. Operating (acquisition) workstation** **6.h)** Automatic image stitching should be available	Philips India Ltd	Automatic image stitching should be available **both on vertical & table.Suitable hardware to be provided.**	**6. Operating (acquisition) workstation** **6.h)** Automatic image stitching should be available **.Necessary Hardware should be offered.**
14			Agfa HealthCare	request you to amend it as follows: **Anatomical & Grid Base Automatic image stitching should be available.** Long length images should be possible on vertical stand as well as horizontally on table. Necessary Hardware should be offered.	
	Page 87 Para 7.a	**7. Post processing & reporting workstation** 7.a) Medical grade 3MP monitor			**7. Post processing & reporting workstation** **7.a) DICOM 3.0 compliant post-processing & reporting workstation with 2 MP Medical grade colour monitor. .**

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	Page 87 Para 7.b	**7. Post processing & reporting workstation** 7.b) Storage 1 TB			**7. Post processing & reporting workstation** **7.b) Storage 1 TB , 4GB RAM.** **It should be able to support integration ,multi monitor - RIS ,PAC terminals. It should be able to perform operations like viewing ,zoom ,pan, windowing,edge enhancement, image transfer , retrieve , query , storage and printing.**
15	Page 87 Para 7.c	**7. Post processing & reporting workstation** **7.c)** Post processing software should be from the principal manufacturer of the quoted unit	Siemens Healthcare	Please clarify the same and also provide the specification of post processing work station.	**Deleted**
16			Philips India Ltd	Request to **delete this point.** **Justification:** Philips does not manufacturer any software and hardware for Post processing & reporting workstation for DR system (even our product data sheet does not mention anything regarding the same). We do it simply because we can accomodate specific customer/tender request for specific hardware (computer & monitor), image storage capacity (as our console can only store 4000 images , even if we provide two consoles their combined capacity will be of 8000 images) . Also our console software & hardware is designed for the purpose of acquistition only and may or may not support the existing reporting format of the hospital , have fixed printing formats which may or may not be customised as per end user liking and keeping it open will allow us to provide you your desired software & hardware config. We therefore request you to delete this point. Also we request you to define the Post processing & reporting workstation deatils like HLL/HITES used to do it for all DR tenders.	
17	Page 88 Para 8.f	**8. Accessories** **8.f)** Pediatric immobilizer (restraining device): two	Siemens Healthcare	Request you to please amend the specification as **"Compression belt -02"**	clarified during pre-bid.
	Page 88 Para 8.	**added para:** **8. Accessories**		**added para:** **8. Accessories 8.i)**	**added para:** **8. Accessories 8.i) : Crash cart - 1 no.**
18	Page 90 Para 2.a	**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.	Siemens Healthcare	Request you to please amend the specification as "Relative Humidity range: To be maintained between 20% and 75% in all areas except equipment room which shall be as per requirement of the equipment."	**AMENDED PARA : SITE MODIFICATION - Digital radiography unit attached.**
19	Page 89	Civil work f) Ceiling-to-wall ceramic tiling.	Siemens Healthcare	Request you to please amend the specification as **"Ceramic Wall tiles of size 600mmx600mm upto false ceiling height"**	**AMENDED PARA : SITE MODIFICATION - Digital radiography unit attached.**

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20	Page 90 Para 2.b	**2 Environment specifications:** **b)** Temperature ranges: 22± 2° C in all areas except equipment room which shall be as per requirement of the equipment.	Siemens Healthcare	Request you to please amend the specification as "Temperature ranges: **+18° C to +28° C** in all areas except equipment room which shall be as per requirement of the equipment."	**AMENDED PARA : SITE MODIFICATION - Digital radiography unit attached.**
21	Page 90 Para 3	**3 AIR CONDITIONING:** Ductable package air conditioners may be used according to room requirement and suitability. Humidity control should be effective to eliminate moisture condensation on equipment surface.	Siemens Healthcare	Request you to please clarify and amend the specification as "For each DR Unit Total 9 TR (6 TR Working+3 TR Standby) Ductable **Split Units / Split Air**-conditioning that is required for the DR examination room and Console areas have to be installed by the vendor.. Humidity control should be effective to eliminate moisture condensation on equipment surface."	**AMENDED PARA : SITE MODIFICATION - Digital radiography unit attached.**
22		Suggested by Bidder	Siemens Healthcare	**To be added in the tender** Location for installation of UPS along with batteries to be added in layout plan.	**AMENDED PARA : SITE MODIFICATION - Digital radiography unit attached.**
23		Suggested by Bidder	Siemens Healthcare	**To be added** Fire detection system – Comprises of fire panel, smoke / heat detectors.	**AMENDED PARA : SITE MODIFICATION - Digital radiography unit attached.**
24		**added para:** **10. Instructions**		**added para: 10 : Instructions:**	**10 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.** **11.2 All information asked for must be provided in the compliance statement under the headings given above.** **11.3 All information in the tender document must be supported by original product data sheets or should be certified by the principals. Computer generated data sheets, photocopies or email printouts shall not be accepted.** **11.4 If the unit is being quoted by Indian agency which is not a direct subsidiary of the principals; an undertaking from the principals must be provided that in case of discontinuation or change of the agency, merger, acquisition or any corporate rearrangement, the principal will arrange for onsite maintenance of the unit and abide by all terms and conditions of the tender.** **Original Product Datasheet of main unit and all accessories, including third party items to be provided.**

SITE MODIFICATION – DIGITAL X-RAY UNIT

1	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. The Site drawing of the Institute can be obtained from the Project office of NCI - AIIMS, room no. 161, Ist floor, DBRAIRCH, AIIMS campus, New Delhi. Complete equipment layout site plan and details of work (BOQ) should be part of technical bid. 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 signage, Aluminium false ceiling, GVT floor tiles and wall tiles/painting. All site modification works should comply with specified standards of the hospital.
2	**The Digital X-Ray site modification shall consist of the following rooms:**
a)	Digital X-Ray Examination Room
b)	Console room
c)	Digital X-Ray equipment / UPS room.
d)	Patient change area
3	***Moreover Bidders will have to quote the Unit Rates of the following components of Site Modification work.***
a)	Civil works
b)	Electrical work
c)	Air Conditioning (HVAC)
d)	Fire Alarm & Detector
e)	Interior Furnishing & Furniture
	The area considered for Site Modification for item: Digital X-Ray System is indicated in the site plan attached below as Annexure 1.
4	**Civil work**
a)	Civil construction work including construction/ modification/ demolition of brick wall if any, plastering, flooring as per the approved plan and equipment layout plan.
b)	Additional strengthening of floor , ceiling structure for equipment , if required
c)	Platform for unloading and shifting the Digital X-Ray 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 NCI Jhajjar
f)	False Ceiling-to-floor ceramic wall tiling in Digital X-Ray examination room, console & patient change area.
5	**Flooring**
a.	600 x 600 mm glazed vitrified (GVT) tiles with 100mm tile skirting in Digital X-Ray Examination room, console room, Patient change area.
b.	5mm-Vinyl flooring in Digital Xray equipment / UPS room.
6	**Painting**
a)	Two coats Plastic Emulsion Paint over 2 coats of wall putty including primer in Digital X-Ray equipment / UPS room.
7	**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.
8	**Electrical work**
a)	The supplier shall be required to specify the total load requirements for the Digital Xray 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 XRAY Scan area. The distribution panel for UPS , DIGITAL XRAY 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.
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
7)	**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.	
8	**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.	
9	**Miscellaneous:**	
i.	LED X-ray Film viewer with adjustable brightness; capable of holding 3 films of 14"x17" size. – 2 no.s	
10	**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	
11	**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
13	**AIR CONDINTIONING**	- Daikin, Hitachi, Blue Star, Voltas,
i.	**FURNITURE**	- Hermen Miller , Godrej , Featherlite,Geeken.