All Bidders

Amendment -VI

Subject: Supply, Installation, Testing and Commissioning of Integration and Data Management System for Modular Operation Theatres for Jai Prakash Narayan AIIMS Trauma Centre, New Delhi.

IFB No. : HSCC/SES/IOT/AIIMS-TRAUMA/2015

Dear Sir,

This has reference to above IFB No. for the Subject works.

The following Amendment may be noted which shall be treated as part of the contract to be submitted duly signed & stamp along with tender.

Sr. No.	Bidder's Query	Clarification/Amendment
1	One major and two satellite Dome/light head with difference LH dimensions as per tendered specification Bidder's Query-Please clarify whether two satellite Dome/light head is required and confirm the availability of clear height from floor to floor to false ceiling of 3100 mm for installation of 3 Dome OT Light with one carrier/monitor arm in the OTs.	1. OT light should have two domes instead of three domes.
	Certification US FDA/CE to allow for maximum competition and participation	Certification US FDA/CE should be provided.
	Centrally mounted HD Camera PAL for displaying real time image during surgery. Video output asked for is Y/C1 x (PAL/NTSC) which is standard Definition. We request you to amend it to HD: Component YPbPr which is High Definition	Component YPbPr which is High Definition should be provided
	Carrier/Monitor Arm for Mounting 26" Monitor or more High definition Flat screen color video Monitor: Medical graded flat screen LED monitor of 26" or more size. It should have a full HD resolution of 1920 x 1080 pixels or more. Aspect ratio of 16.9 progressive scan PAL system. Multiple video outputs: DVI, SVHS,HDMI. Direct fibre optic output etc. Should be mounted on carrier/Monitor	One 26" Monitor should be with the OT light and another 26" monitor should be hung with spring arm.from ceiling of OT.

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2.0	Arm of OT Light. Separate Ceiling mounted Boom arm shall be provided for mounting 26" Monitor 2. Please clarify, since two 26" medical grade monitors have been asked for at 1.1 please amend the BOQ and specification accordingly 500 GB internal storage and 2 TB external storage HDD for archiving. Compatibility to Network attached Storage (NAS) in the specs. for more storage of huge data. As per last Amendment-V Full High Definition Dual Channel Digital Documentation System should have at least 2 TB or more internal Hard Disk Drive for in system archiving. It should have two inputs Full HD (1920 x 1080) DVI and output of Full HD (1920 x 1080) DVI	Full High Definition Dual Channel Digital Documentation System should have at least 2 TB or more internal Hard Disk Drive for in system archiving. It should have two inputs Full HD (1920 x 1080) DVI and output of Full HD (1920 x 1080) DVI
3	As per last Amendment-V Sl.No 8, Bidder's query WHO surgical safety check list should be provided. WHO Surgical safety checklist is recommended by World Health Organization to enhance patient safety Amended as per last Amendment-V Sl.No 8 The recorder should have two inputs of DVI, HD-SDI, Composite video & S-video inputs for recording from various sources on 2 channels.	WHO surgical safety check list should be provided. WHO Surgical safety checklist is recommended by World Health Organization to enhance patient safety
4	As per last Amendment-V Bidder's query 13.vii.b. Digital Signal processor for audio signals shall be integrated with audio from respective OT's and auditorium and will ensure echo/feedback free bi- directional audio communication? Amended as per last Amendment-V 13.vii.b. All the necessary Audio cable, speaker cable both within Operation Theater& outside which is necessary for Bi-directional Audio communication between OT & Seminar Hall shall be within the scope of the bidder	Digital Signal processor for audio signals shall be integrated with audio from respective OT's and auditorium and will ensure echo/feedback free bi-directional audio communication
5	As per last Amendment-V Bidder's query 8 The recorder should have two inputs of DVI, HD-SDI, Composite video & S-video inputs for recording from various sources on 2 channels.	The recorder should be able to record two signals simultaneously.

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0	As per the last Amendment-V	
	2. AUDIO-VISUAL COMMUNICATION SYSTEM. Para 2.4 - 2.6 of technical specification Sl.No.13. viii	
	Bidder's query -Seminar Hall will be having its own Audio Visual set up which is to be integrated with audio signal from respective Operation Theaters& Digital Signal Processor?	Seminar Hall will be having its own Audio Visual set up which shall be integrated with audio signal from respective Operation Theaters& Digital Signal Processor.
	viii. Amended in the last amendment-V as Seminar Hall will be having its own Audio Visual set up which shall be integrated with audio signal from respective Operation Theaters& Digital Signal Processor.	Video matrix and Digital signal Processor for Auditorium should be provided by the contractor.
	 Bidder's query 3.3 The Full High Definition Dual channel Digital Documentation System for parallel recording of videos/stills from two Video sources should be a high end computer system based on Windows- 7/8 embedded platform (for security purposes) designed specifically for recording, managing and archiving surgical images and video in native full HD resolution. The captured full high –definition images and videos can be accessed from the hard drive for printing or saving on to multiple forms of external media which includes CD/DVD, USB Flash Drive & Hospital network via separate 12" or more touch screen. We request you kindly amend the full High Definition Dual Channel Digital Documentation System to have "7 inch touch screen or more of its own", plus a remote control for easy operations without interfering with camera & other surgical devices. More suggestions: 1) The recorder should have two inputs of DVI, HD-SDI, Composite video & S-video inputs for recording from various sources on 2 channels. 2) The recorder should have one output each for DVI, HD-SDI, Composite Video & S-video inputs for routing the image if required. 	 Full High Definition Dual Channel Digital Documentation System to have 7 inch touch screen or more of its own", plus a remote control for easy operations without interfering with camera & other surgical devices. 1. The recorder should have two inputs of DVI, HD-SDI, Composite video & S-video inputs for recording from various sources on 2 channels. 2. The recorder should have one output each for DVI, HD-SDI, Composite video & S-video inputs for recording from various sources on 2 channels. 3. Should be able to edit the achieved videos like cutting, cropping etc. 4. The recording should be MPEG 4 AVC/H.264 format with a maximum native resolution of 1920 x 1080 pixels depending on the input selected.

2) 3) 4) 5)	 like cutting, 4) The record AVC/H.264 native resol depending of As per the last as per the last Full High D Documentation S screen or more of for easy operaticamera & other su The recorded DVI, HD-SDI, for DVI, HD-SDI, for recorded for DVI, HD-SD for recorded for DVI, HD-SD for nouting the im 	cropping etc. ling should format wit ution of 192 n the input sel Amendment- efinition Dua system to hav its own", plus ons without urgical devices or should have composite vi- ng from various r should have l, Composite ng from various r should have l, Composite age if required ble to edit the	V I Channel Digital ve 7 inch touch a remote control interfering with s. ve two inputs of ideo & S-video ous sources on 2 e two inputs each video & S-video ous sources on 2 e one output each Video & S-video						
fo	Dint 2.2- The audious and the lost A man		should have the	Point 2.2- The audio/video router should have the following outputs.					
<u>A</u>	s per the last Ame	<u>iament-v</u>							
	5. I/P	Signal	Output	S.	I/P	Signal	Output		
1	No (Source)	Туре	(Destination)	No	(Source)	Туре	(Destination)		
	L. Endoscopic Camera	DVI/HD- SDI	DVI Monitor - 1	1.	Endoscopic Camera	DVI/HD- SDI	DVI Monitor - 1		
2	2. In-Light	S-	Monitor -2	2.	In-Light	S-	Monitor -2		
	CameraVideo/DVI3.RoomVGA/DVICameraRoom				Camera Room	Video/DVI VGA/DVI	Conference		
					Camera	VGA/DVI	Room		
	l. C-Arm	DVI	Monitor – 3	4.	C-Arm	DVI	Monitor – 3		
	5. Navigation	VGA	Archiving	5.	Navigation System	VGA	Archiving		
	System6.Microscop	DVI	System Monitor -I	6.	System Microscop	DVI	System Monitor -I		
	e 7 Dationt			7	e Dotiont				
	7. Patient	DVI/VGA		7. Patient DVI/VGA					

	vital sign			vital sign		
8.	Archiving	DVI/VGA	8.	Archiving	DVI/VGA	
	System-1			System		
9.	Free for	DVI	9.	Free for	DVI	
	Future Use			Future Use		
10.	Free for	DVI	10.	Conferenci	DVI/S-	
	Future Use			ng	Video	
11.	Archiving	DVI/S-		Solution		
	System-II	Video		(Polycom)		
12.	Conferenci	DVI/S-				
	ng	Video				
	Solution					
	(Polycom)					

All other terms & conditions remain unchanged.

Chief General Manager For & on behalf of Director (AIIMS)

Bill of Quanity

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S. No.	PART-I Description				Unit	Qty	Rate in Fig. (in Rs.)	Rate in words (in Rupees)	Total Amount in Rs.
1)	Digital Display Monitor - Comple specifications.	ete with all access	ories as per tech	Nos.	4				
2)	Audio-Visual Communication Sy technical specification. Includes	•	with all accessor	Nos.	4				
2a)	Set of Microphone, Amplifer/mi specifications	xer, Speaker for e	each OTas per teo	chnical	Nos.	4			
2b)	Full High Definition Video Confe	rencing System fo	or OT as per tech	nical specifications	Nos.	4			
2c)	Dedicated Full High Definition V with integration with Projector specifications			Nos.	1				
2d)	Local Area Network (LAN) in Op Network Switch and LAN cabling			all along with	Lot	1			
2e)	Digital Signal Processor with 8 o cancellation along with mixing c auditorium as per technical spec	of audio from eacl	•		Nos.	1			

2f)	Full High definition video switcher 4 or more number of inputs along with full hd cabling , transmitters & receivers for transmission from each OT & transmitting it to the auditorium as per technical specifications	Nos.	1		
3)	Central Control system -Complete with all acessories as per technical specification.	Nos.	4		
4)	High Definition 42"or more LED Monitor for Image Data Management System .Complete with all accessories as per technical specification.	Nos.	4		
5)	CAMERA (PTZ) inside OT's- complete with all accessories as per technical specification	Nos.	4		
6)	OT LIGHT (LED) with HD camera, HD Flat Monitor (26") and Spring Arm acrobat 3000 or more with VESA 100 or more. Complete with all accessories as per technical specification.	Nos.	4		
7)	Ceiling suspended boom arm system having a Spring Arm Acrobat 3000 and VESA 100 or more. Complete with all accessories as per technical specifications.	Nos.	4		
8)	Turnkey works- Complete with all accessories as per technical specification.	LS	1		
	Total Amount				
PART-II	Comprehensive Maintenance Charges for the complete Integration and Data Management System for Modular Operation Theatre including spares, repair or replacement of defective equipments/parts, tolls, tackles, accessories, consumables, labour charges etc. complete in all respect after completion of one year DLP as per the contract.				

						-						
	Ist Year				Job	1						
	2nd Year					Job	1					
	3rd Year					Job	1					
	4th Year					Job	1					
		SUB TOTAI	L Rs.									
	TOTAL (PART I + II)											