ALL INDIA INSTITUTE OF MEDICAL SCIENCE, JODHPUR

Name of the work: Supply, Installation, Testing and Commissioning of Video Projection & Control System for Auditorium at AIIMS, Jodhpur.

N.I.T. No.: AIIMS-JDH/EE/CIVIL/2016-17/Audi/03

CLARIFICATION / ADDENDUM

<table>
<tr><th>S. No.</th><th>Ref. Page No. of Document</th><th>For</th><th>To be read as-</th></tr>
<tr><td>1.</td><td>Page No. 97 & 98</td><td>
Clause 18
List of mandatory machinery tools & plants to be deployed by the contractor at site:-

As per work requirement and directions of Engineer –in-Charge. .

<table>
<tr><th rowspan="2">S. No.</th><th rowspan="2">Minimum qualification of technical representative</th><th rowspan="2">Discipline</th><th rowspan="2">Designation (principal technical/technical representative</th><th rowspan="2">Minimum Exp in Yrs</th><th rowspan="2">Number</th><th colspan="2">Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i) per month</th></tr>
<tr><th>Figure</th><th>Words</th></tr>
<tr><td></td><td>Graduate Engineer</td><td>I.T./Electronics/ Electrical</td><td>Principal Technical Representative</td><td>05</td><td>01</td><td>Rs 25000/-</td><td>Twenty five thousand only</td></tr>
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Or Diploma Engineer</td><td>I.T./Electronics/ Electrical</td><td>02

Project Planning / Site/Billing Engineer</td><td>02

05</td><td>01</td><td>Rs 15000/-</td><td>Fifteen thousand only</td></tr>
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Requirement of Technical Representative(s) and recovery Rate
Note: Assistant Engineers, retired from Govt. services that are holding Diploma, will be treated at par with Graduate Engineers.
Diploma holders with minimum 10 years relevant experience with reputed construction co. can be treated at par with graduate engineers for the purpose of
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Note: Assistant Engineers, retired from Govt. services that are holding Diploma, will be treated at par with Graduate Engineers.
Diploma holders with minimum 10 years relevant experience with reputed construction co. can be treated at par with graduate engineers for the purpose of such deployment subject to the condition that such diploma holders not exceed 50
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		such deployment subject to the condition that such diploma holders not exceed 50 % of requirement of degree engineers.	% of requirement of degree engineers.
2.	**Page No. 136**	**Annual Maintenance Contract – Comprehensive**	**Annual Maintenance Contract – Comprehensive**
		1st Year Comprehensive Annual Maintenance Cost	Rate should not be quoted for the item and should be considered as inclusive in BOQ items rate. No separate payment shall be quoted / allowed for 1st Year Comprehensive Annual Maintenance Cost.
3.			Technical Specifications (Appendix-A) for Video Projection and Control System have been attached herewith shall be treated as part of tender documents.

Appendix - A

Technical Specifications

SH-I Video Projection & Control System

1	**Projector**	
	Technology	3 Chip DLP
	Resolution	WUXGA 1920 X 1200
	Brightness	20000 Centre Lumens or better 18000 ANSI Lumens
	Contrast	1650:1 or better
	Horizontal and Vertical Scaling	Yes
	Inputs	Min 1 x DVI or better Min SD/HD-SDI or better
	Illumination	1 X 2.5kW Xenon Lamp or 3 X 465W Lamp or better
	Controlling Ports	Min RS232 , IR , Ethernet or better
	Lamp Life	750 hours or better
	Long throw Projection lens to cover upto 38meters distance from Projector Room to Projection screen.	
2	**Fixed Frame Projection Screen**	
	Aspect Ratio	16 : 10 or better
	Diagonal	400" or better
	Fixed Projection Screen	Yes
	Screen Surface	Matt White Front Projection Surface
	Gain	1.4
3	**18.5" Monitor for Camera Monitoring**	
	Diagonal Size (inches)	Min 18.5" or better
	Resolution	Min. (1600 X 900) or better
	Input	HDMI
	Audio Out	Yes
	Brightness	200 nits or better
4	**49" Smart Display for VIP Room**	
	Diagonal Size (inches)	Min 49" or better
	Product Type	LED or better
	Resolution	Full HD (1,920 x 1,080) or better
	Display Mirroring	Yes
	Inputs and Outputs	3 X HDMI Input or better 1 X Composite & Component or better 1 X USB Input or better 1 X VGA(PC Interface) or better 1 X Audio Output
	Network Connectivity	Wi-Fi Direct ; Wireless LAN ; Apps ; Web Browser ; Ethernet ; RS232 ; Blutooth or better
	Viewing Angle	178 degrees or better
5	**43" HD Display for Green Room and Stage Monitoring**	
	Diagonal Size (inches)	Min 49" or better
	Product Type	LED or better
	Resolution	Full HD (1,920 x 1,080) or better

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	Inputs and Outputs	3 X HDMI Input or better 1 X Composite & Component or better 1 X USB Input or better 1 X VGA(PC Interface) or better 1 X Audio Output
	Built in Speakers	
	Viewing Angle	178 degrees or better
6	**Video Conference End Point**	
	The VC unit should be Full HD 1080 @ 60fps (720p60 upgradable to Full HD) The video conferencing unit should support Multiple Primary Camera support. It should have Max. Transmission Speed of (IP: 4 Mb/s & ISDN: 768 kb/s) It should have Dual Monitor Output (HDMI/DVI). Should have Flexibility for Display Options like Full Screen, PinP, PandP, Side by Side. Should Supports Video Annotation on shared Data/Presentations. System should be 128-bit Fully Encrypted Video Conference Meetings to ensure encrypted data flows between endpoint & MCU. It Should have Inbuilt HD recording on USB . It Should connect to at least 6 Sites with the desired multipoint. Should support at least 100 Camera Presets. Video Codec: Solution Should support communication protocols standard such as H.263, H.263+, H.263++, H.264, H.264 or better Video Codec for good video quality at lower bandwidth It should also support mandatorily ITU Standard based H.264 and H.263 in order to ensure smooth interoperability between different systems. High Definition Multicast Streaming. Camera Specifications: The Camera should be HD and PTZ with at least Pan: ±100º ,Tilt: ±25º ; sensor: 1/2.8-type Exmor CMOS, 2.1 M compatible or better. It should have an Option of Auto or Manual White Balance. . The camera should have a S/N Ratio of >50db. The camera should have a 12x Optical / 12x Digital Zoom Lens. The camera should have a standard Video Output as HDMI, DVI or better. The camera should support Video format of YUY2 | 1920x1080 30p, 1280x 720 30p. The camera should have an VISCA protocol with built-in IP control Camera /Control Interface: RJ-45 / RS-232C for Communication. The camera should have at least 16 Position Presets.	
7	**High Definition PTZ Camera**	
	Image Sensor	1/2.8-type Exmor CMOS or better
	Video Format	Full HD (1080p/60) or better
	Zoom Ratio	30x Optical or better 12x Digital or better
	Pan / Tilt	Pan: ±170º or better Tilt: +90º to -30º
	Horizontal angle of view	65º or better
	Minimum illumination	0.35 lx or better
	Video output	HDMI or better
	Camera Control	Serial / IP or better
	Camera Presets	6 or better
	Mounting	Ceiling & Desktop
8	**Joystick Controller**	
	Remote Control for controlling cameras. Should support VISCA RS232C/RS-422 protocol. Should support minimum 16 pre-set positions. Should be able to control Pan/Tilt/Zoom functions. Extra component or equipment maybe added to match the complete specs.	

9	**Speech/Teleprompter with PC**	
	It Should be easy to use. It Should support Multi Language . It Should support Run-Time Editing/Live Editing while prompting It should support RTF and Text File format. It should support text formatting. It should have mirrored and unmarried prompting options It should have adjustable speed control and scrolling options must be supported in it. It should have adjustable Keyboard/Mouse control. It should have flexibility to save and configure files Should support multi Monitoring . It should have speech prompter mirror with a min size of (15" x 15")and a 70/30 True beam splitter with anti-reflectant coating. Inclusive of Stand with min 360 degree tiltable and adjustable height.	
10	**Web Streaming and Recording Device**	
	Video Input sources	2 Inputs or more
	Video Input Resolution	320x240 640x480 NTSC/PAL DVI – 1600x1200 VGA – 1280x720
	Video input formats	DVI or more
	Audio inputs sources	RCA input or better
	Audio Encoding formats	AAC
	video Output	DVI, VGA
	video Encoding formats	H.264, WMV, MPEG4, RTSP
	video output resolution	720p or more
	Streaming	320 x 240 30fps - 1920 x 1080 20fps
	storage	320Gb or more
	content offload	DVD or better
11	**Controller**	
	Comm/Serial Ports	3 RS-232/485/422 or better
	Relays	8 or better
	IR/ Serial Ports	4 or better
	Communication Network	Ethernet
12	**1 X 2 HDMI Distribution Amplifier & Audio DE embedder**	
	Input	1 HDMI
	Output	2 HDMI Out or better 1 AUDIO Out or better
	Max Data Rate	6.75Gbps or better
	Supports HDMI and HDCP	Yes
	Indicator LED's	Yes
13	**Wireless Touch Panel with Control Software**	
	7 " Wireless Touch Panel IOS/Android Compatible 16 GB hard Disk or better Controlling & Monitoring AV equipments Software for interconnectivity of Wireless touch Panel with the Control System	
14	**Wireless Router** Wireless Router for Wi/Fi connectivity/access point.	

15	**Remote for Sliding Presentation** Remote with dongle for Sliding Presentation/Slides while giving presentation.	
16	**HDMI over Shielded Twisted Pair Transmitter**	
	Input	HDMI
	Output	Shielded Twisted Pair Output
	Max Data Rate	10.2 Gbps or better
	Supports HDMI and HDCP	Yes
17	**HDMI over Shielded Twisted Pair Receiver**	
	Input	Shielded Twisted Pair Output
	Output	HDMI
	Max Data Rate	10.2 Gbps or better
	Supports HDMI and HDCP	Yes
18	**HDMI Cable** 1 Mtr HDMI - HDMI Cable	
19	**HDMI Cable** 5 Mtr HDMI - HDMI Cable	
20	**HDMI Cable** 10 Mtr HDMI - HDMI Cable	
21	**VGA Cable with Audio** 5 Mtr VGA - VGA Cable with Audio.	
22	**VGA Cable with Audio** 10 Mtr VGA - VGA Cable with Audio.	
23	**CAT 6** Shielded twisted pair CAT6 cable for carrying digital Signal that can travel upto 50 mtrs.	