

HIGH COURT OF MADHYA PRADESH: JABALPUR

// CLARIFICATION //

No. Reg(IT)(SA)/2018/477

Jabalpur, Dated:26th March, 2018

Subject:- The matter relates to publish the clarification of the Pre-Bid meeting dated: 19th March, 2018 of the tender regarding “Supply, Installation, Commissioning, Maintenance of Audio Video Solution system for High Court of Madhya Pradesh, Jabalpur with reference to the tender no. Reg(IT)(SA)/2018/401, Dated:06.03.2018.

Ref: - Pre-Bid Meeting Dated: 19th March, 2018 at 11:30 AM.

Reply / clarification to the pre-bid queries

S.No.	Page No. & Clause No.	Tender Clause	Query of the bidder	Reply / clarification to the query
1	Section-1, Page No. 4 & Clause No. 3.8, page no.19 Time for Completion of the work	The successful bidder shall complete the assignment within 30 days from the date of contract	As per our understanding the material delivery will normally takes 3-4 weeks as there are multiple products to be supplied for audio- video solution system. And another 1 month to install and test the system	The time for the completion of work in entice is extended to 45 days from the date of Letter of Acceptance
2	Clause Ni. 5.7.1, page no.28 Warranty service level requirement	The preventive maintenance of all AV system and other related items should be carried out on every six month and to submit the report to the “Registrar General, High Court of Madhya Pradesh, Jabalpur”	As the material will be newly installed we would request to relax the six monthly preventive maintenance for the first year	For first 03 years preventive maintenance is to carried out on yearly basis and thereafter the preventive maintenance is to be carried out 06 monthly basis and when required by the High Court.
3	Section IV, Clause no. 6. II, page no.30 Technical Specification	All the necessary and required cables and accessories	All the necessary and required cables and accessories with the product will be provided by us. But the cables, power sockets and network in the	All the electrical and network connections shall be provided by the High Court to the service provider. But the vendor

			premises will be in purchaser's scope and will provide the ready to install premises. Kindly confirm	should assist in the work accordingly.
4	Section IV, Clause no. 11, page no.31 Technical Specification	HDMI patch cable – 50 feet	we request to amend the clause to 15 meter. As the maximum possible length for HDMI patch cable is 15 meter	HDMI cable should be read as 15 meter or above.
5	Section IV, Clause no. 25, page no.31 Technical Specification	Supply installation testing and commissioning of Camera for Live view streaming Generic PTZ camera with 30x zoom, autofocus and HDTV 720p resolution at 50/fps for live streaming of video and audio. "Video conference" design, smooth pan and tilt, WDR, EIS. HDMI, 3G-SDI, XLR-3 for studio connectivity. CD-audio quality in stereo. Compliance with SMPTE 296M Power supply and wall mount bracket are included	What is the Purpose of camera a) is it to show who is communicating on Projector and 4 displays? b) Live Streaming of video? But where? C) Who will move the camera? How? Do you need Joystick to control camera?	a. Yes the live streaming is required for display of the events activities of the conference hall. b. yes the joystick is to provided along with cable for control purpose.
6	Section IV, Clause no. 25, page no.31	Supply installation testing and commissioning of Camera for Live view streaming Generic PTZ camera with 30x zoom, autofocus and HDTV 720p resolution at 50/fps for live streaming of video and audio. "Video conference"	Kindly confirm whether the recording of the live streaming is required. If yes separate line item has to be added	The vendor has to provide the recording device with minimum 4 TB capacity

		design, smooth pan and tilt, WDR, EIS. HDMI, 3G-SDI, XLR-3 for studio connectivity. CD-audio quality in stereo. Compliance with SMPTE 296M Power supply and wall mount bracket are included		
7	Section IV, Clause no. 26, page no.32	SITC of the LED Down lighters for the stage lighting to maintain Lux level at the stage. The light should have facility of automatic controller in order to brighten the light or dim the light of the hall.	As per the clause LED Down lighters will have the facility of automatic controller in order to brighten the light or dim the light installed on stage. But as you have mentioned brighten the light or dim the light of the hall kindly confirm is it a typo error or we have to control entire hall lighting. If yes what will be the light load	Only LED down lighters will have the facility of automatic control.
8	Section IV, Clause no. 27, page no.32	Complete Backdrop designing and printing on the 3M or Flex sheet of the stage with complete area customized with the photographs pictures printing, Designing & Fixing of the same. (VC Room of the High Court)	As per the clause kindly confirm is the VC room is separate from the conference hall. If yes what will be the dimension of the back drop required	Yes; VC room is separate from Conference Hall.
9	Section IV, Clause no. 28, page no.32	Remote operated curtains / blinds as per site requirement	As per the clause the kindly share the dimension and no. of windows required to be motorized curtained	yes remote operators curtains / blinds at site requirements. The vendor has to visit the site before the quoting the bid

The flowing technical specifications have been updated as per details given below:-

TECHNICAL SPECIFICATION FOR SEMINAR HALL		
Sl. No.	Detail Specifications	Compliance Yes/No
1	Heavy duty universal Projector mount, black	
a	6 feet Heavy duty powder coated ceiling mount kit to be provided	
2	220 Inch Diagonal , 16:9, Matt White Motorized Projection Screen (16X9 Feet)	
a	Universal mounting brackets for easy installation anywhere	
b	The pentagonal-shaped steel case should have scratch-resistant white polyester finish.	
c	Screen Surface: Matt white	
d	Aspect Ratio 16:9	
e	Motorized screen	
f	Smooth operation	
g	Inbuilt low voltage circuit	
h	Diagonal Size: 220 "	
3	6500 Lumens WXGA resolution,	
a	6500 Lumens WXGA resolution, 5000:1, 3LCD projector with 2500 hours Lamp life, HD BaseT and HDMI connectivity. Compatible with Epson EB-G5 series lenses, Wide lens shift, manual vertical keystone correction, HDBaseT, Cinch audio in, RS-232C, Stereo mini jack audio in (4x), Stereo mini jack audio out, S-Video in, BNC in, Composite in, Display Port, HDMI in, VGA out, VGA in, Wireless Network, 10 Base-T, Wired Network	
4	55 inches Full HD Monitors / display panels having HD baseT with wall mount and all accessories	
a	Screen size (diagonal) : 55-inch (1,387 mm)	
b	Panel type : IPS/Edge LED	
c	Aspect ratio : 16:9	
d	Number of pixels (H x V) : 1920 X 1080	
e	Minimum Brightness : 350 cd/m2 or more.	
f	Dynamic contrast : 50,000:1	
g	Response time : 10 ms to 15 ms	
h	HDMI IN Connector : HDMI TYPE A connector x 2	
i	LAN : 10BASE-T/100BASE-TX	
j	HDBaseT : Yes required	
5	HDCP Compliant Presentation Switcher with HSBaSeT Out along with all accessories	
a	INPUTS: 4 HDMI on HDMI connectors, 5 IR on 3.5mm mini jack connectors	
b	OUTPUTS: 2 HDMI connectors, 4 HDBaSeT on RJ-45 connectors, 5 IR on 3.5mm mini jack connectors, 1 unbalanced stereo audio on a 3.5mm mini jack connector	
c	PORTS: 1 Ethernet on an RJ-45 connector, 1 program on a USB connector, 1 RS-232 control on a 3-pin terminal block, 1 RS-232 data on a 3-pin terminal block	

d	MAX. DATA RATE: 10.2Gbps (3.4Gbps per graphic channel)	
e	SUPPORTED RESOLUTIONS:VGA to WUXGA (reduced blanking), 4Kx2K @30Hz with Deep Color up to 36bpp	
f	HDMI RANGE: 15m (49feet) @ 8bit resolution, 10m (33feet) @ 12 bit resolution	
g	HDBaseT RANGE: 100m (328feet) 4K @30Hz 180m (590feet) 1080 @60Hz@24bpp	
6	Passive Face plate with HDMI	
a	Passive Face plate with HDMI Connector	
7	Digital Podium with Interactive Panel	
a	19"LCD Tablet Monitor	
b	Resolution 1366 x 768	
c	View Area 409.8(H) x 230.4(V) mm – 19 inch	
d	Luminance ,White 300 cd/m ²	
e	Contrast Ratio 1000:1 (typ.)	
f	Viewing Angle 160° (H/V)	
g	Lamp Life Time 20,000 Hrs (min)	
h	Technology Electromagnetic Resonance Detectable Height 3~10mm Position Report Rate 138pps Pressure Resolution 1024 Level	
	Podium :	
a	Body : Steel Frame with Wooden Top	
b	Sliding cover : Opening/Closing the cover easily	
c	Soft wheels : Moving podium with convenience	
d	Adjusting Monitor Angle system	
e	User can set monitor angle as user's want	
f	In-built Rack : Podium should have an in-built 19U Rack for housing Amplifier, PC, DVD Player, etc.	
g	Top Connection Panel : Should have RGB x 1 for connecting External Laptop, USB x 2 for external Hard Disk Connectivity, Power Socket, Switcher and Gooseneck Microphone.	
h	Dimensions : 687 (W) x 1054 (H) x 860 (D) mm or equivalent	
8	VGA To HDMI Converter	
a	Kramer / Finolex or equivalent brand of repute	
9	VGA + Audio patch cable – 6 feet or above	
a	High performance cable designed for transmission of computer-video, audio, and ID bit signals	
b	Terminated with high quality molded VGA male connectors and 3.5 mm connectors	
c	Length : 6 feet or above	
d	VGA shall grounded for ESD electrostatic discharge protection	
10	HDMI patch cable - 6 feet or above	
a	Ultra-flexible, low bend radius HDMI cables	
b	1080p/60 verified	
c	Length : 6 feet	
d	36 AWG copper wire construction	
e	Gold plated contacts	
11	HDMI patch cable - 50feet / 15 meter or above	

a	Ultra-flexible, low bend radius HDMI cables	
b	1080p/60 verified	
c	Length : 50 feet / 15 meter or above	
d	36 AWG copper wire construction	
e	Gold plated contacts	
12	Wireless Lapel Microphone Set	
a	WIRELESS STATIONARY RECEIVER	
b	Frequency bands: A: 530,025 – 559,000 MHz; U1: 606,100 – 613,900 MHz; U2: 614,100 – 629,900 MHz; B1: 748,100 – 751,900 MHz; B2: 774,100 – 777,900 MHz; M: 826,300 – 831,000 MHz; D: 863,100 – 864,900 MHz; K: 925,100 – 931,850 MHz Diversity system: Antenna switching RF output: 10, 20 or 50 mW (depending on frequency band) Audio bandwidth: 40 – 20 000 Hz (+/- 3dB) Tuning range: Up to 30 MHz (depending on frequency band) Max. channels: Up to eight compatible channels within one frequency band Frequency selection: Fixed frequencies Modulation: FM Radio range (Line of sight): 30 meter (with external antennas further distances achievable)	
	WIRELESS BODYPACK TRANSMITTER	
a	Type: Three pin mini XLR connector (female)	
b	Maximum audio level: 12dB	
c	Rated Impedance: 1 Ohms	
d	Audio bandwidth: 40 – 20 000 Hz (+/- 3dB)	
e	Signal to noise: 105 dB-A	
f	THD at 1kHz: 0.8%	
g	Transmitter synchronization: Manual	
h	Battery type: AA battery (LR 6 AA alkaline battery or HR 6 AA (NiHM) rechargeable battery)	
i	Operating time: Up to eight hours with one AA battery	
13	Wireless Handheld Microphone Set	
a	WIRELESS STATIONARY RECEIVER	
b	Frequency bands: A: 530,025 – 559,000 MHz; U1: 606,100 – 613,900 MHz; U2: 614,100 – 629,900 MHz; B1: 748,100 – 751,900 MHz; B2: 774,100 – 777,900 MHz; M: 826,300 – 831,000 MHz; D: 863,100 – 864,900 MHz; K: 925,100 – 931,850 MHz Diversity system: Antenna switching RF output: 10, 20 or 50 mW (depending on frequency band) Audio bandwidth: 40 – 20 000 Hz (+/- 3dB) Tuning range: Up to 30 MHz (depending on frequency band) Max. channels: Up to eight compatible channels within one frequency band Frequency selection: Fixed frequencies Modulation: FM Radio range (Line of sight): 30 meter (with external antennas further distances achievable)	
	WIRELESS HANDHELD TRANSMITTER	
a	Microphone capsule: Patented dynamic D5 capsule	
b	Polar pattern: super cardioids	
c	Signal to noise: 105 dB-A	
	THD at 1kHz: 0.8%	
d	Audio bandwidth: 70 – 20 000 Hz (+/- 3dB)	

e	Transmitter synchronization: Manual	
f	Battery type: AA battery (LR 6 AA alkaline battery or HR 6 AA (NiHM) rechargeable battery)	
g	Operating time: Up to eight hours with one AA battery	
14	18 inch Gooseneck Stem	
a	Bass filter: 250 Hz, -10 dB bei 50 Hz	
b	Impedance: <=600 ohms	
c	Recommended load impedance : >=2,000 ohms	
d	Supply voltage : 9 to 52 V phantom power to DIN/IEC	
e	Powering: <=3.5 mA	
f	Connector : 3-pin male XLR	
g	Finish matte dark grey	
h	Programmable mute switch	
i	High RFI (Radio Frequency Interference) immunity	
j	Integrated LED ring status indicator	
k	Integrated, gold-plated XLR connector	
l	50 Cm Length	
m	Polar pattern: cardioids	
n	Frequency range: 50 to 20,000 Hz	
o	Sensitivity: 20 mV/Pa (-34 dBV) re 1 V/Pa	
p	Max. SPL : 125 dB (for 1 % THD)	
q	Equivalent noise level: 21 dB-A	
r	Signal/noise ratio (A-weighted) : 73 dB	
s	Shock Mount Adaptor	
15	Audio Mixer	
a	<ul style="list-style-type: none"> •Frame sizes : 12+2 •2 configurable auxiliary buses •XLR-type and ¼" metal jack connector sockets •RCA phono stereo playback inputs and record outputs •3-band EQ with a swept mid on mono inputs •2-band EQ on stereo inputs •TRS insert sockets and inserts on all mono inputs and mix output •Ten-segment LED output metering •Intuitive and comprehensive solo system •Headphone output •Easily rack mountable 	
16	Line Array Column Speakers , Black	
a	Power Handling (low - Z) : 500 W	
b	Max SPL ; 125 dB (133 dB peak)	
c	Freq. Resp. (-10 dB):60 Hz – 20 kHz	
d	Vertical Coverage: Narrow = 25° asymmetrical Broad = 45° asymmetrical	
e	Sensitivity (SPL @ 1m, 3.3 feet): 98dB	
f	Wall Bracket : Should be Included	
g	Transducers:16 x 1" tweeters, 4 x 5" woofers	
17	Four Channel Audio Power Amplifier	
a	Four-channel, 600W @ 4Ω Analog Power Amplifier, 70V/100V	
b	Frequency Response (8 Ohms, 20 Hz - 20 kHz) : +/- 0.25 dB	
c	Signal To Noise Ratio (A-weighted) : > 108 dB	
d	Total Harmonic Distortion (at full rated power, 20 Hz - 20 kHz) : 0.35%	
e	Voltage Gain : 34 dB	
f	Damping Factor (20 Hz to 100 Hz);>1000	

g	Input Impedance (nominal balanced, unbalanced) : 10 kOhms, 5 kOhms	
18	Dual Channel Audio Power Amplifier	
a	Analog input, 2 channel, 600W per output channel	
b	Frequency Response (8 Ohms, 20 Hz - 20 kHz) : +/- 0.25 dB	
c	Signal To Noise Ratio (A-weighted) : > 108 dB	
d	Total Harmonic Distortion (at full rated power, 20 Hz - 20 kHz) : 0.35%	
e	Voltage Gain : 34 dB	
f	Damping Factor (20 Hz to 100 Hz);>1000	
g	Input Impedance (nominal balanced, unbalanced) : 10 kOhms, 5 kOhms	
19	Microphone bulk cable	
a	Balanced stereo mic or line level audio signals	
b	20 AWG (10/30) tinned copper conductors.	
c	PVC color coded: red/black & green/white.	
d	20 AWG (10/30) tinned copper (in contact with shield)	
e	Aluminum Mylar foil 25% overlap rate.	
f	DC Resistance:-34.6Ω/km (10.5Ω/1000feet).	
g	Capacitance: 89pF/m (27pF/feet).	
h	Impedance: 40 to 100Ω.	
i	Shield Wire with Balance ground	
j	Belden or equivalent brand of repute	
20	Speaker Bulk Cable	
a	Conductors: 16 AWG, (26/30) bare copper conductors.	
b	Insulation: PVC color coded: red, black.	
c	Conductors:16 AWG (26/30) bare copper conductors. Insulation : PVC color coded: red	
d	DC Resistance: 34.6Ω/km (10.5Ω/1000feet).	
e	Belden or equivalent brand of repute	
21	Various Bulk Cables and Connectors with Accessories	
a	Good Quality Branded Connectors / having ISO / ISI mark	
22	Shielded CAT -6 cable	
a	Four-Pair U/FTP Data Bulk Cable (23AWG)	
b	Outer Jacket Color : Blue	
c	Total Wires : 8	
d	Overall Shield Material : Polyester aluminum tape.	
e	Min. Bend Radius : 35mm.	
f	Impedance : 100 ohm	
g	Dlink / or equivalent brand of repute	
23	Stereo Audio/Control Cable	
a	Kramer or equivalent brand of repute	
24	Standard AV rack with 600mm Width, 800 mm Outer Depth and 42U Height	
25	Supply installation testing and commissioning of Camera for Live view streaming Generic PTZ camera with 30x zoom, autofocus and HDTV 720p resolution at 50 / fps for live streaming of video and audio. "Video conference" design, smooth pan and tilt, WDR, EIS, HDMI, 3G-SDI, XLR- 3 for studio connectivity. CD-audio quality in stereo compliance with SMPTE 296 M Power supply and wall mount bracket are to be included.	

26	65 inches Full HD Monitors / display panels having HD baseT with wall mount	
a	Screen size (diagonal) : 65-inch	
b	Panel type : IPS/Edge LED	
c	Aspect ratio : 16:9	
d	Number of pixels (H x V) : 1920 X 1080	
e	Minimum Brightness : 350 cd/m2 or more	
f	Dynamic contrast : 50,000:1	
g	Response time : 10 ms +/- 2	
h	HDMI IN Connector : HDMI TYPE A connector x 2	
i	LAN : 10BASE-T/100BASE-TX	
j	USB memory : USB TYPE A connector x 1	
k	Built-in speaker ; 20 W [10 W + 10 W]	
l	VGA In : Mini D-sub 15-pin (DDC2B compatible) x 1	

Note:-

1. The Registrar General, High Court of Madhya Pradesh has full right to accept or reject any bid, without assigning any reason.
2. All prospective bidders are requested to submit the bid and if there is any deviation in the specification, please mention the same in the deviation statement sheet.
3. The specifications mentioned in tender document are minimum and the vendor can quote higher specification items.
4. The time of completion of project is 45 days.

**Sd/-
REGISTRAR GENERAL**