

Compliance Matrix

1. Item: Full HD PTZ USB Conferencing Camera With Remote Control:Quantity-1No.					
1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Type of Camera	PTZ			
5	Sensor	1/2.8 inch to 1/ 2.5 inch CMOS			
6	Resolution	1080P			
7	Frame Rate	60fps			
8	Optical Zoom	20X or better			
9	FOV	60 Deg or better			
10	Horizontal Rotation Range	±170 Deg			
11	Vertical Rotation Range	-30 to +90 deg			
12	Backlight Compensation	Yes			
13	Camera Preset required	16 or more			
14	Video Output: HDMI Port	Yes			
15	Video Output: USB 3.0 Port	Yes			
16	RJ-45 Port	Yes			
17	IR Remote Control	Yes			
18	Height adjustable Tripod stand	Yes			

2. Item: 65 inches Display : Quantity - 2 Nos.					
1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Technology	LED Back Lit			
5	Screen Size (Diagonal)	63 to 67 inches			
6	Panel technology	IPS/VA			
7	Resolution (Pixels)	3840 x 2160			

8	Aspect Ratio	16:9			
9	Brightness Nits	500 nits or better			
10	Viewing Angle	170 Deg or better			
11	Speakers	Yes			
12	HDMI Port	2			
13	Audio Port	1			
14	USB Port	2			
15	Ethernet Port	1			
16	Tiltable wall Mount Kit and Other Accessories for Installation.	Yes			

3. Item: 75 inches Display : Quantity - 2 Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Technology	LED Back Lit			
5	Screen Size (Diagonal)	73 to 77 inches			
6	Panel technology	IPS/VA			
7	Resolution (Pixels)	3840 x 2160			
8	Aspect Ratio	16:9			
9	Brightness Nits	500 Nits or better			
10	Viewing Angle	170 Deg or better			
11	Speakers	Yes			
12	HDMI Port	2			
13	Audio Port	1			
14	USB Port	2			
15	Ethernet Port	1			
16	Tiltable wall Mount Kit and Other Accessories for Installation.	Yes			

4. Item: Table Top Boundary Layer Microphones : Quantity - 17 Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Type	Condenser			
5	Acoustic Principle	Boundary Layer			
6	Pick-up Pattern	Cardioid			

7	Sensitivity	10 mV / Pa or better			
8	Frequency Response	100 Hz to 15KHz or better			
9	Maximum Sound Pressure Level	100 to 132 dB or better			
10	Phantom Power	48V			
11	LED Indicator	Yes			
12	Microphone Modes	Toggle on/off and Push to Mute and Push to Talk			

5. Item: Wireless Tie-clip (Collar/lapel) Microphones: Quantity - 2 Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Type	Wireless			
5	Pick-up Pattern	Unidirectional			
6	Form Factor	Collar worn			
7	Transducer Type	Condensor			
8	Frequency Response	100 -15KHz or Better			
9	Operating Range	60 meter or better (Line of sight)			
10	Number of compatible channels in a group	10 or more			
11	LED Indicator	Yes			
12	On/off Switch (With Batteries AA type)	Yes			
13	Channel / Frequency Selection	Yes			
14	Transmitter and receiver units	Yes			

6. Item: Wireless Hand Held Microphone : Quantity - 2 Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Type	Wireless			
5	Pickup Pattern	Unidirectional			
6	Form Factor	Handheld			
7	Transducer Type	Condenser			
8	Audio Frequency Response	100-15KHz or Better			
9	Channel / Frequency Selection	Yes			

10	Number of compatible channels in a group	10 or more			
11	Power Requirement	AA Battery 2 Nos.			
12	Working Range	60 m or Better (Line of sight)			
13	LED Indicator	Yes			
14	On/off Switch	Yes			
15	Transmitter and Receiver Units	Yes Both required			

7. Item: Ceiling Mount Speakers: Quantity - 8 Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Mount Type	Ceiling			
5	System Type	6 inch full range or better			
6	Coverage Angle	110 degree Conical or better			
7	Nominal Impedance	8 ohm			
8	Power Rating (Continuous/RMS)	30 Watts or better			
9	Transformer Taps (100V)	30w, 15w			
10	Sensitivity (1w, 1M)	85dB SPL or better			
11	Maximum Sound Pressure Level	100dB or better			

8. Item: Power Amplifiers: Quantity - 2 Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Type	4 Channel Class D power amplifier			
5	Frequency Response	100 Hz to 15Khz or better			
6	Signal to Noise Ratio	90dB or better			
7	Output Power (8 ohm)	120 watts per channel or better			
8	100 V High Impedance	Yes			

9. Item: Audio DSP with 12 analog inputs and 8 analog outputs: Quantity - 2 Nos.					
1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Analog Inputs	12 Inputs should support Mic/Line level inputs with individual AEC processing on Phoenix/Combicon removable screw connector and selectable 48V Phantom power			
5	Analog Outputs	8 Outputs 8 Mic/Line level outputs on Phoenix/Combicon removable screw connector			
6	Noise Cancellation	Yes			
7	Frequency Response	100 Hz to 15Khz or better			
8	RS-232 Serial Port	Yes			
9	RJ45 Ethernet Port	Yes			
10	Network Audio Port (AVB/Dante/BLUlink or equivalent)	Yes			
11	USB Audio Support	Yes			
12	Both DSP Units of the Same OEM may be Cascaded to Support 24 mic / line inputs and 16 mic / line level outputs.	Yes			

10. Item: 8*8 HDMI Matrix Switcher: Quantity - 1 No.					
1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Inputs	8 HDMI on female HDMI connector			
5	Outputs	8 HDMI on female HDMI connector			

6	Resolution	4K @60Hz (4:4:4) or better			
7	HDMI 2.0Support	yes			
8	Maximum Data Rate	17 Gbps or better			
9	ARC support	yes			
10	Content Protection HDCP 2.2	Yes			
11	EDID Management	Yes			
12	RJ-45 Ethernet port	1 or more			
13	RS-232 Port	1 or more			
14	Stereo Balanced Audio Output on a 5-pin Terminal Block Connector	Yes			

11. Item: 1*4 HDMI Distribution Amplifier: Quantity - 2 Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Inputs	1 HDMI on female HDMI connector			
5	Outputs	4 HDMI on female HDMI connector			
6	Resolution	4K @60Hz (4:4:4)			
7	HDMI 2.0 Support	Yes			
8	Content Protection HDCP 2.2	Yes			
9	EDID Management	Yes			
10	RS-232 Port	1 or more			

12. Item: USB 3.0 Peripheral Sharing Switch: Quantity - 1 No.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Computer Connections	4			
5	Port Selection	Remote port selector			
6	Connector (Computer)	4 x USB Type B Female			
7	Connector (Device)	4 x USB Type A Female			

8	LED Indicators	Yes			
9	Data Rate	5 Gbps or Better			

13. Item: Chairman Monitor : Quantity - 1 No..

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Technology	LED Backlit			
5	Type	Bezel less or frame less or slim Bezel			
6	Display Technology	IPS/VA			
7	Screen Size (Diagonal)	25 to 29 inches			
8	Resolution (Pixels)	1920 x 1080 or better			
9	Aspect Ratio	16:9			
10	Brightness Nits	250 Nits or better			
11	Viewing Angle	170 Deg more			
12	HDMI port	2 or more			
13	Height Adjustable & Tilttable Floor Mount Stand	Yes			

14. Item: Ultra short throw Projector with mounting kit: Quantity - 2 Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Technology	LCD or DLP			
5	Projection Method	Front			
6	Native Resolution	1920 x 1080 or better			
7	Brightness	5000 lumens or better			
8	Throw Ratio	0.25:1 or less			
9	Screen Size (Diagonal) supported	115 to 120 inch or better			
10	Aspect Ratio	16:9 or better			
11	Keystone Correction	Horizontal & Vertical			
12	Lens Shift Supported	Yes			
13	Type of Light Source	Laser			
14	Laser light source (in normal mode)	20000 hours or better			
15	No. of HDMI Input Ports	2 or more			
16	No. of Audio Output	1 or more			

	Ports				
17	No. of LAN Ports	1 or more			
18	HD Base T support	1 or more			
19	Wireless Remote control	Yes			
20	Power Supply	230V, 50Hz Indian standard plug tops			
21	Ceiling Mount Kit(As per the site requirement.)	Required			

15. Item: Tab tension Motorised projector screen with remote controller: Quantity - 2Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Type	Motorised Tab tension			
5	Screen Size (Diagonal)	Minimum: 115 inches Maximum: 120 inches			
6	Aspect Ratio	16:9			
7	Mounting Type	Ceiling Mount			
8	Display Fabric Material	Matte White			
9	Gain	1:1			
10	Remote Controller	Yes			
11	Type of Remote	Wireless			
12	Ceiling Mount kit and other Accessories for Installation	Yes.			
13	Motorised with tab tension Support	Yes			

16. Item: HDMI to USB 3.0 Capture Box: Quantity – 1 No.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Type of Device	USB capture device with 1 or more input			
5	No. of Input (HDMI)	1 or more			
6	No. of Output (USB 3.0)	1 or more			
7	USB Compatibility	3.0			

8	Video input Resolution	3840 x 2160			
9	Audio Input	Stereo Jack			
10	Connecting cables and adapter	Yes			

17. Item: 19 Inches Floor Mount Rack: Quantity – 1 No.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Type of Rack	Portable Rack			
5	Usable Height	26 U			
6	Usable Width	19 inch			
7	Mount Type	Free Standing			
8	Front Glass Door	Yes			
9	Secure Locks	Yes			
10	Support Cable Entry From Top or Bottom	Yes			
11	No. of Fan for Heat Dissipation	1 No.			
12	No. of Rack Trays	2 or more			
13	6 Outlet Power Strip with 6A Universal Socket	3 Nos. Or more			
14	Over all width	600 mm			
15	Over all depth	600 to 800 mm			
16	Removable side panels	Yes			
17	Heavy duty caster wheels	Yes 4 nos (minimum 2 nos with brake)			
18	Mounting screws and all other accessories required for installation	Yes			

18. Item: Display Port (Male) to HDMI (Female) Adapter / Adapter Cable: Quantity – 5Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Input - Display Port (Male)	1 or more			
5	Output - HDMI Port (Female)	1 or more			
6	Supported Resolution	4K @60Hz (4 : 4 : 4)			

19. Item: USB Type-C (Male) to HDMI (Female) Adapter / Adapter Cable: Quantity – 5 Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Input	One Type C Male			
5	Output	1 HDMI Female			
6	Supported Resolution	4K @60Hz (4 : 4 : 4)			

20. Item: HDBase T Transmitter: Quantity – 4 Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Inputs	1 HDMI: on a female HDMI connector			
5	Outputs	1 HDBT: on an RJ-45 female connector			
6	IR port on a 3.5 mm connector	1 or more			
7	RS-232 port	1 or more			
8	Video resolution	4K UHD @60 Hz (4:4:4) upto 100 meters			
9	Video (Max data rate)	17 Gbps or better			
10	HDCP 2.2 content protection	Yes			
11	HD base T 2.0 compliant	Yes			
12	PoE Remote Powering for Receiver Unit	Yes			
13	Range	100 meter or better			
14	Power Adapter Included	Yes			

21. Item: HDBase T Receiver: Quantity – 4 Nos.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Inputs	1 HDBT: on an RJ-45			

		female connector			
5	Outputs	1 HDMI: on an HDMI connector			
6	IR port on a 3.5 mm connector	1 or more			
7	RS-232 port	1 or more			
8	Video resolution	4K UHD @60 Hz (4:4:4) upto 100 meters			
9	Video (Max data rate)	17 Gbps or better			
10	HDCP 2.2 content protection	Yes			
11	HD base T 2.0 compliant	Yes			
12	PoE extension supported	Yes			
13	Range	100 meter or better			
14	Power Adapter Included	Yes			

22. Item: HDMI Table Flip box for Laptop: Quantity – 1 No.

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Input	1 HDMI: on a female HDMI connector			
5	RJ45 port	1 or more			
6	3 Pin Indian standard Power socket	Yes			

23. Item: Installation, Testing, Commissioning, Training & Documentation & cables, connectors & Accessories : Quantity – 1 lot

1	Specify Make & Model no.				
2	Attach datasheet (Yes / No)				
3	Quantity of items				
		LPSC Specification	Offered Specification	Compliance (Yes / No)	Remarks
4	Installation, testing, commissioning, documentation, programming, training & demonstration of above system with	Yes			

	required PVC conduit, speaker wiring termination, testing & demonstration				
5	Supply of Audio cables, Mic Cables, Speaker Cables, Premium certified HDMI cables (4K @60Hz) with premium logo printed on the label and other cables, Connectors, Converters, wall mount brackets, Rack mount brackets and other accessories, at actuals	Yes			

24. Technical compliance

		Compliance (Yes / No)	Remarks
1	Compliance to scope of work Annexure-1		
2	Compliance to Terms & conditions for warranty, CSMC and operational services Annexure-2		
3	Compliance to Instructions to be followed by Vendor Annexure-3		