

Scope of Work for the Upgradation of LHWC-HAL VC Hall

I) Introduction :

Scope of work is for the upgradation of LPSC Work Centre- LHWC video conference hall located at HAL, Bangalore. Main objective is to conduct live interactive video conferencing in online VC platforms with other ISRO centres with an immersive AV experience. This involves supply of deliverables, installation, commissioning, testing and demonstration of AV facility deployed at LHWC, HAL Bangalore. Currently, video conferencing meetings are conducted in 3 TV displays configuration for video, i.e near end, far end and for content display. For audio, microphones, power amplifier and speakers are available in this video conference hall.

II) Scope of work is defined in Two sections :

Section-1 describes Supply, installation, commissioning, testing & demonstration of Audio Video facility in video conferencing mode with

- PTZ Camera, projectors , TV displays
- Audio system comprising microphones, Speakers, Power Amplifiers and audio DSP.
- Cables, connectors, racks, switchers and accessories.

Section-2 covering Warranty for 3 years and Comprehensive Service Maintenance Contract support for 2 years beyond warranty period. Details in Annexure – 2

Section - 1:

Supply of deliverables, installation, commissioning, testing and demonstration of AV facility in video conference mode at LHWC, HAL, Bengaluru and making the facility functionally operational.(Hall dimensions in drawing -1).In this context, Deliverables to be supplied are as listed below.

1.1 Deliverables:

Sl. No.	Item	Qty.
1	Full HD PTZ USB Conferencing Camera With Remote Control	1 No.
2	65 inches Display	2 Nos.
3	75 inches Display	2 Nos.
4	Table Top Boundary Layer Microphones	17 Nos.
5	Wireless Tie-clip (Collar/lapel) Microphones	2 Nos.
6	Wireless Hand Held Microphone	2 Nos.
7	Ceiling Mount Speakers	8 Nos.
8	Power Amplifiers	2 Nos.
9	Audio DSP with 12 analog inputs and 8 analog outputs	2 Nos.
10	8*8 HDMI Matrix Switcher	1 No.

11	1*4 HDMI Distribution Amplifier	2 No.
12	USB 3.0 Peripheral Sharing Switch	1 No.
13	Chairman Monitor	1 Nos.
14	Ultra Short Throw Laser Projector	2 Nos.
15	Motorised with tab tension Projector Screen	2 Nos.
16	HDMI to USB 3.0 Capture Box	1 No.
17	19 Inches Floor Mount Rack	1 No.
18	Display port (Male) to HDMI (Female) Adapter / Adapter Cable	5 Nos.
19	USB Type-C (Male) to HDMI (Female) Adapter / Adapter Cable	5 Nos.
20	HDBase T Transmitter	4 Nos.
21	HDBase T Receiver	4 Nos.
22	HDMI Table Flip box for Laptop	1 No.
23	Installation, Testing, Commissioning, Training & Documentation & cables , connectors and accessories	1 Lot

1.2 Installation:

Installation and commissioning shall be carried out as per LPSC requirements. Premium certified HDMI cables (4K @60Hz) with premium logo printed on the label to be used. Standard brands of audio/video cables, connectors, converters, consumables, and other accessories required for the installation shall be supplied by the Vendor which will be paid at actuals.

Section - 2:

Warranty and Comprehensive Service Maintenance Contract:

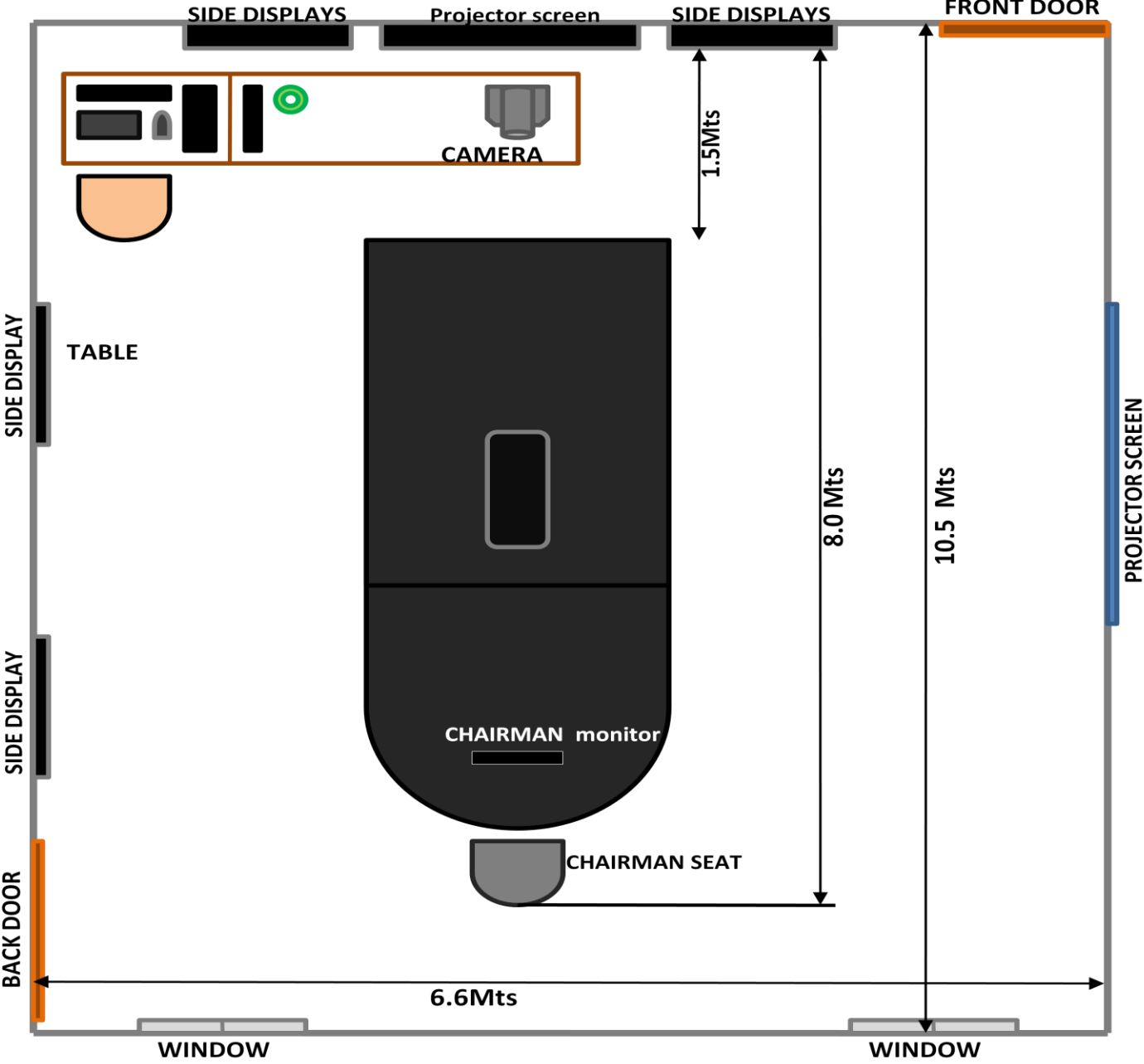
2.1 Warranty

Warranty shall be for 3 (Three) years and Comprehensive service maintenance contract support for 2 (Two) years beyond warranty period for the AV system installed at LHWC-HAL, Bengaluru. In case, the OEM provides more than 3 years of comprehensive warranty support, the same shall be passed on to LPSC. Warranty conditions to be complied are given in Annexure– 2. Effective date of warranty shall be from the date of installation completion.

2.2 Comprehensive Service Management Contract:

Comprehensive SMC for the entire system for a period of 2 years after the completion of the warranty period is mandatory for evaluation of bids. CSMC rates shall be quoted mandatorily in the bid. For the Scope of work, terms & conditions for the Comprehensive maintenance contract beyond warranty period are given in detail in Annexure– 2.

LHWC KRISHNA CONF HALL DIAGRAM



Drawing - 1