

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
LIQUID PROPULSION SYSTEMS CENTRE (LPSC-B)
BANGALORE**

Tender for Upgradation of Video conferencing Facility at LHWC- HAL

Bids to be submitted online

**Tender No.: LPSC-B/Liquid Propulsion Systems
Centre,Bengaluru/LB202400032601 dated 10-01-2025**

A. Tender Details

Tender No : **LPSC-B/Liquid Propulsion Systems Centre,Bengaluru/LB202400032601**

Tender Date : **10-01-2025**

Tender Classification: **GOODS**

Purchase Entity : **Liquid Propulsion Systems Centre,Bengaluru**

Centre : **LIQUID PROPULSION SYSTEMS CENTRE (LPSC-B)**

Upgradation of Video conferencing Facility at LHWC - HAL

Upgradation of Video conferencing Facility at LHWC - HAL

A.1 Tender Schedule

Bid Submission Start Date : **10-01-2025 17:00**

Bid Clarification Due Date : **24-01-2025 14:00**

Bid Submission Due Date : **31-01-2025 14:00**

Bid Opening Date : **31-01-2025 14:30**

Price Bid Opening Date : **14-02-2025 14:00**

B. Tender Attachments

Technical Write-up/Drawings

Document : compliance of specification format

Document : terms and conditions

Document : scope of work

Document : Instructions to vendor

Document : Technical Specification

Document : list of annexure

Instructions To Vendors

7. Instructions to Vendors

1. LPSC(B) invites offers through eprocurement portal (<https://eproc.isro.gov.in>) for the supply / service of items as listed in the Tender document.
2. Prospective vendors interested in participating in the tendering process need to get registered in the e-procurement portal by using Digital Signature Certificate. Offers submitted through our online portal only shall be considered and offers received through fax or email or in person shall not be considered.
3. The Tenderers are requested to update their address and contact details, if necessary and submit the Bids online at least two days prior to closing date to avoid last minute system / network related problems. In case of any technical issues, tenderers may write to helpdesk team (eprocure@vssc.gov.in, egps@lpsc.gov.in) for resolution. Request for the extension of the due date for such instances shall not be considered.
4. GST @ 5% is applicable for following goods mentioned under Sl. No. 243B as per Department of Revenue Notification No. 25/2018 - Integrated Tax (Rate) dated 31/12/2018 (Amendment to Notification Nos. 07/2018 dated 25/01/2018 and 01/2017 dated 28/06/2017) and Department of Revenue Notification No. 24/2018 - Central Tax (Rate) dated 31/12/2018 (Amendment to Notification Nos. 06/2018 dated 25/01/2018 and 01/2017 dated 28/06/2017) and Government of Karnataka Notification No. 24/2018 dated 31/12/2018 (Amendment to Notification Nos. 06/2018 dated 25/01/2018 and 01/2017 dated 29/06/2017).

"Scientific and technical instruments, apparatus, equipment, accessories, parts, components, spares, tools, mock ups and modules, raw material and consumables required for Launch Vehicles and Satellites and Payloads"

5. LPSC(B), ISRO is eligible for Customs Duty Concession vide Notification No.12/2012-Customs dated 17/03/2012 and Notification No. 50/2017-Customs dated 30/06/2017. Necessary Customs Duty Concession Certificate shall be provided if applicable.

6. Offer Validity: The offer shall be valid for a period of 90 days (for Single Part Tender) and 120 days (for Two Part Tender) from the date of opening of the tender or any other period as specified in the Tender document. Offers with lesser validity period than that specified are liable for exclusion from the procurement process.

7. In case of Two Part Tender, Tenderers shall not mention any kind of price element in Techno-Commercial Bid. If any Price element is mentioned in the Techno-Commercial bid, their offer shall be liable for rejection.

8. LPSC(B) reserves the right to accept or reject any quotation in part or in full or part without assigning any reason thereof. LPSC(B) shall be under no obligation to accept the lowest tender and reserves the right to accept whole or any part of the tender or part of the quantity offered and the Tenderers shall supply the same at the rates quoted.

9. Bank Details: Tenderer shall provide their bank details such as IFSC code, IBAN No. , SWIFT etc. along with their offer which shall be not be changed till completion of supply/service.

10. Applicable Law: The Contract shall be governed by Indian Law for the time being in force and jurisdiction shall lie in the Courts of India.

11. Only Class-I and Class-II Local suppliers as per Public Procurement Policy (Preference to Make in India) Order, 2017 are eligible to participate in the bid unless otherwise specified in the Tender document.

12. As far as implementation of Public Procurement Policy (Preference to Make in India) Order, 2017 is concerned, the Office Orders vide No. P-45021/2/2017-B.E-II dated 15/06/2017, which is partially modified by Order No. P-45021/2/2017-PP(BE-II) dated 28/05/2018, Order No. P-45021/2/2017-PP(BE-II) dated 29/05/2019, Order No. P-45021/2/2017-PP (BE-II) dated 04/06/2020 and Order No. P-45021/2/2017-PP (BE-II) dated 16/09/2020 and subsequent Amendments issued by the Department for Promotion of Industries and Internal Trade (DPIIT), Ministry of Commerce and Industry regarding Class-I / Class-II local suppliers, Purchase preference, verification of local contents etc. shall be applicable to this tender unless otherwise specified in the Tender document.

Therefore, bidders may ensure compliance of the same while submitting tenders.

13. Price Preference shall be extended to the MSEs under the Public Procurement Policy for MSEs formulated under the Micro, Small and Medium Enterprises Development Act, 2006 unless otherwise specified in the Tender document. Such MSEs shall produce documentary proof of registration as per provisions of the Policy i.e. registration with District Industries Centre (DIC) or Khadi and Village Industries Commission (KVIC) or Khadi and Industries Board (KVIB) or Coir Board or National Small Industries Commission (NSIC) or Directorate of Handicrafts and Handlooms or Udyog Aadhar Memorandum or any other body specified by Ministry of MSME.

14. Any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if the bidder is registered with the Competent Authority. Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

15. Resolution of Disputes: Any dispute, disagreement or question arising out of or relating to or in consequence of the contract or to its fulfillment, or the validity of enforcement thereof which cannot be settled mutually, or the settlement of which is not herein specifically provided for, shall within 30 (thirty) days from the date either party informs the other in writing that such dispute or disagreement exists be referred to arbitration by the sole arbitrator. The Arbitrator shall be appointed as per the Indian Arbitration and Conciliation Act 1996 and proceedings will be conducted in Bangalore. The Arbitration proceedings shall be conducted in accordance with and subject to the Arbitration and Conciliation Act 1996 (Act 26 of 1996) as amended from time to time and the decision of the Arbitrator shall be final and binding on the parties thereto. Each party shall bear its own cost of preparing and presenting its case. The cost of Arbitration including the fees and expenses of the Arbitrator shall be shared equally by the parties unless the award provides otherwise. Subject to provisions of this clause, the courts at Bangalore shall have exclusive jurisdiction. Performance under this Contract shall, however continue during Arbitration proceeding and no payment due or payable by the parties hereto shall be withheld unless any such payment is/or forms a part of the subject matter of the Arbitration proceedings.

16. Force Majeure: Neither party shall bear responsibility for the complete or partial non-performance of any of his obligations if the non-performance results from such force majeure circumstances such as, but not restricted to, flood, fire, earthquake, civil commotion, sabotage, explosion, epidemic, quarantine restriction, strike, lock-out, freight embargo, acts of the Government, acts of public enemy and other acts of God as well as war or revolution, military operation, blockade, acts or actions of State authorities or any other circumstance beyond the control of the parties provided the other party is notified in writing within 21 days from the date of commencement of the unforeseeable event.

C. Bid Templates

C.1 Technical Bid - Upgradation of Video conferencing Facility at LHWC- HAL

1. PTZ Video Conferencing Camera - Full HD PTZ USB Conferencing Camera With Remote Control

Item specifications for PTZ Video Conferencing Camera

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type of Camera	PTZ	Yes / No / Explain		
2	Sensor	1/2.8 inch to 1/ 2.5 inch CMOS	Yes / No / Explain		
3	Resolution	1080P	Yes / No / Explain		
4	Frame Rate	60fps	Yes / No / Explain		
5	Optical Zoom	20X or better	Yes / No / Explain		
6	FOV	60 Deg or better	Yes / No / Explain		
7	Horizontal Rotation Range	±170 Deg	Yes / No / Explain		
8	Vertical Rotation Range	-30 to +90 deg	Yes / No / Explain		
9	Backlight Compensation	Yes	Yes / No / Explain		
10	Camera Preset required	16 or more	Yes / No / Explain		
11	Video Output: HDMI Port	Yes	Yes / No / Explain		
12	Video Output: USB 3.0 Port	Yes	Yes / No / Explain		
13	RJ-45 Port	Yes	Yes / No / Explain		
14	IR Remote Control	Yes	Yes / No / Explain		

15	Height adjustable Tripod stand	Yes	Yes / No / Explain		
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2. Colour LED/LCD Display 65 inches

Item specifications for Colour LED/LCD Display

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Technology	LED Back Lit	Yes / No / Explain		
2	Screen Size (Diagonal)	63 to 67 inches	Yes / No / Explain		
3	Panel technology	IPS/VA	Yes / No / Explain		
4	Resolution (Pixels)	3840 x 2160	Yes / No / Explain		
5	Aspect Ratio	16:09	Yes / No / Explain		
6	Brightness Nits	500 nits or better	Yes / No / Explain		
7	Viewing Angle	170 Deg or better	Yes / No / Explain		
8	Speakers	Yes	Yes / No / Explain		
9	HDMI Port	2	Yes / No / Explain		
10	Audio Port	1	Yes / No / Explain		
11	USB Port	2	Yes / No / Explain		
12	Ethernet Port	1	Yes / No / Explain		
13	Tiltable wall Mount Kit and Other Accessories for Installation.	Yes	Yes / No / Explain		

3. Colour LED/LCD Display 75 inches

Item specifications for Colour LED/LCD Display

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Technology	LED Back Lit	Yes / No / Explain		
2	Screen Size (Diagonal)	73 to 77 inches	Yes / No / Explain		
3	Panel technology	IPS/VA	Yes / No / Explain		
4	Resolution (Pixels)	3840 x 2160	Yes / No / Explain		
5	Aspect Ratio	16:09	Yes / No / Explain		
6	Brightness Nits	500 Nits or better	Yes / No / Explain		
7	Viewing Angle	170 Deg or better	Yes / No / Explain		
8	Speakers	Yes	Yes / No / Explain		
9	HDMI Port	2	Yes / No / Explain		
10	Audio Port	1	Yes / No / Explain		
11	USB Port	2	Yes / No / Explain		
12	Ethernet Port	1	Yes / No / Explain		
13	Tiltable wall Mount Kit and Other Accessories for Installation.	Yes	Yes / No / Explain		

4. MICROPHONES- table top boundary microphones

Item specifications for MICROPHONES

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type	Condenser	Yes / No / Explain		
2	Acoustic Principle	Boundary Layer	Yes / No / Explain		
3	Pick-up Pattern	Cardioid	Yes / No / Explain		

4	Sensitivity	10 mV / Pa or better	Yes / No / Explain		
5	Frequency Response	100 Hz to 15KHz or better	Yes / No / Explain		
6	Maximum Sound Pressure Level	100 to 132 dB or better	Yes / No / Explain		
7	Phantom Power	48V	Yes / No / Explain		
8	LED Indicator	Yes	Yes / No / Explain		
9	Microphone Modes	Toggle on/off and Push to Mute and Push to Talk	Yes / No / Explain		

5. MICROPHONES-wireless tie-clip microphones

Item specifications for MICROPHONES

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type	Wireless	Yes / No / Explain		
2	Pick-up Pattern	Unidirectional	Yes / No / Explain		
3	Form Factor	Collar worn	Yes / No / Explain		
4	Transducer Type	Condensor	Yes / No / Explain		
5	Frequency Response	100 -15KHz or Better	Yes / No / Explain		
6	Operating Range	60 meter or better (Line of sight)	Yes / No / Explain		
7	Number of compatible channels in a group	10 or more	Yes / No / Explain		
8	LED Indicator	Yes	Yes / No / Explain		
9	On/off Switch (With Batteries AA type)	Yes	Yes / No / Explain		
10	Channel / Frequency Selection	Yes	Yes / No / Explain		
11	Transmitter and receiver units	Yes	Yes / No / Explain		

6. MICROPHONES- wireless hand-held microphones

Item specifications for MICROPHONES

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type	Wireless	Yes / No / Explain		
2	Pickup Pattern	Unidirectional	Yes / No / Explain		
3	Form Factor	Handheld	Yes / No / Explain		
4	Transducer Type	Condenser	Yes / No / Explain		
5	Audio Frequency Response	100-15KHz or Better	Yes / No / Explain		
6	Channel / Frequency Selection	Yes	Yes / No / Explain		
7	Number of compatible channels in a group	10 or more	Yes / No / Explain		
8	Power Requirement	AA Battery 2 Nos.	Yes / No / Explain		
9	Working Range	60 m or Better (Line of sight)	Yes / No / Explain		
10	LED Indicator	Yes	Yes / No / Explain		
11	On/off Switch	Yes	Yes / No / Explain		
12	Transmitter and Receiver Units	Yes Both required	Yes / No / Explain		

7. Ceiling Mount Speakers

Item specifications for Ceiling Mount Speakers

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Mount Type	Ceiling	Yes / No / Explain		
2	System Type	6 inch full range or better	Yes / No / Explain		

3	Coverage Angle	110 degree Conical or better	Yes / No / Explain		
4	Nominal Impedance	8 ohm	Yes / No / Explain		
5	Power Rating (Continuous/RMS)	30 Watts or better	Yes / No / Explain		
6	Transformer Taps (100V)	30w, 15w	Yes / No / Explain		
7	Sensitivity (1w, 1M)	85dB SPL or better	Yes / No / Explain		
8	Maximum Sound Pressure Level	100dB or better	Yes / No / Explain		

8. Power Amplifier - 4 channel

Item specifications for Power Amplifier

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type	4 Channel Class D power amplifier	Yes / No / Explain		
2	Frequency Response	100 Hz to 15Khz or better	Yes / No / Explain		
3	Signal to Noise Ratio	90dB or better	Yes / No / Explain		
4	Output Power (8 ohm)	120 watts per channel or better	Yes / No / Explain		
5	100 V High Impedance	Yes	Yes / No / Explain		

9. Audio Digital Signal Processor-12 channel analog AEC inputs&8 analog outputs

Item specifications for Audio Digital Signal Processor

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	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	Yes / No / Explain		
2	Analog Outputs	8 Outputs 8 Mic/Line level outputs on Phoenix/Combicon removable screw connector	Yes / No / Explain		
3	Noise Cancellation	Yes	Yes / No / Explain		
4	Frequency Response	100 Hz to 15Khz or better	Yes / No / Explain		
5	RS-232 Serial Port	Yes	Yes / No / Explain		
6	RJ45 Ethernet Port	Yes	Yes / No / Explain		
7	Network Audio Port (AVB/Dante/BLUlink or equivalent)	Yes	Yes / No / Explain		
8	USB Audio Support	Yes	Yes / No / Explain		
9	Both DSP Units of the Same OEM may be Cascaded to Support 24 mic / line inputs and 16 mic / line level outputs.	Yes	Yes / No / Explain		

10. HDMI Matrix Switcher 8x8

Item specifications for HDMI Matrix Switcher

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Inputs	8 HDMI on female HDMI connector	Yes / No / Explain		
2	Outputs	8 HDMI on female HDMI connector	Yes / No / Explain		
3	Resolution	4K @60Hz (4:4:4) or better	Yes / No / Explain		
4	HDMI 2.0Support	yes	Yes / No / Explain		

5	Maximum Data Rate	17 Gbps or better	Yes / No / Explain		
6	ARC support	yes	Yes / No / Explain		
7	Content Protection HDCP 2.2	Yes	Yes / No / Explain		
8	EDID Management	Yes	Yes / No / Explain		
9	RJ-45 Ethernet port	1 or more	Yes / No / Explain		
10	RS-232 Port	1 or more	Yes / No / Explain		
11	Stereo Balanced Audio Output on a 5-pin Terminal Block Connector	Yes	Yes / No / Explain		

11. DISTRIBUTION AMPLIFIER 1x4 HDMI

Item specifications for DISTRIBUTION AMPLIFIER

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Inputs	1 HDMI on female HDMI connector	Yes / No / Explain		
2	Outputs	4 HDMI on female HDMI connector	Yes / No / Explain		
3	Resolution	4K @60Hz (4:4:4)	Yes / No / Explain		
4	HDMI 2.0 Support	Yes	Yes / No / Explain		
5	Content Protection HDCP 2.2	Yes	Yes / No / Explain		
6	EDID Management	Yes	Yes / No / Explain		
7	RS-232 Port	1 or more	Yes / No / Explain		

12. USB 3.0 peripheral sharing switch

Item specifications for USB 3.0 peripheral sharing switch

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Computer Connections	4	Yes / No / Explain		
2	Port Selection	Remote port selector	Yes / No / Explain		
3	Connector (Computer)	4 x USB Type B Female	Yes / No / Explain		
4	Connector (Device)	4 x USB Type A Female	Yes / No / Explain		
5	LED Indicators	Yes	Yes / No / Explain		
6	Data Rate	5 Gbps or Better	Yes / No / Explain		

13. LED Monitor - 27 INCHES

Item specifications for LED Monitor

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Technology	LED Backlit	Yes / No / Explain		
2	Type	Bezel less or frame less or slim Bezel	Yes / No / Explain		
3	Display Technology	IPS/VA	Yes / No / Explain		
4	Screen Size (Diagonal)	25 to 29 inches	Yes / No / Explain		
5	Resolution (Pixels)	1920 x 1080 or better	Yes / No / Explain		
6	Aspect Ratio	16:09	Yes / No / Explain		
7	Brightness Nits	250 Nits or better	Yes / No / Explain		
8	Viewing Angle	170 Deg more	Yes / No / Explain		
9	HDMI port	2 or more	Yes / No / Explain		
10	Height Adjustable & Tilttable Floor Mount Stand	Yes	Yes / No / Explain		

14. OPTICAL LIGHT PROJECTOR SYSTEM

Item specifications for OPTICAL LIGHT PROJECTOR SYSTEM

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Technology	LCD or DLP	Yes / No / Explain		
2	Projection Method	Front	Yes / No / Explain		
3	Native Resolution	1920 x 1080 or better	Yes / No / Explain		
4	Brightness	5000 lumens or better	Yes / No / Explain		
5	Throw Ratio	0.25:1 or less	Yes / No / Explain		
6	Screen Size (Diagonal) supported	115 to 120 inch or better	Yes / No / Explain		
7	Aspect Ratio	16:9 or better	Yes / No / Explain		
8	Keystone Correction	Horizontal & Vertical	Yes / No / Explain		
9	Lens Shift Supported	Yes	Yes / No / Explain		
10	Type of Light Source	Laser	Yes / No / Explain		
11	Laser light source (in normal mode)	20000 hours or better	Yes / No / Explain		
12	No. of HDMI Input Ports	2 or more	Yes / No / Explain		
13	No. of Audio Output Ports	1 or more	Yes / No / Explain		
14	No. of LAN Ports	1 or more	Yes / No / Explain		
15	HD Base T support	1 or more	Yes / No / Explain		
16	Wireless Remote control	Yes	Yes / No / Explain		
17	Power Supply	230V, 50Hz Indian standard plug tops	Yes / No / Explain		

18	Ceiling Mount Kit(As per the site requirement.)	Required	Yes / No / Explain		
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15. Motorised Projection Screen

Item specifications for Motorised Projection Screen

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type	Motorised Tab tension	Yes / No / Explain		
2	Supported Display Technology	Projection 1080P 1080p or better	Yes / No / Explain		
3	Screen Size (Diagonal)	Minimum: 115 inches Maximum: 120 inches	Yes / No / Explain		
4	Aspect Ratio	16:09	Yes / No / Explain		
5	Mounting Type	Ceiling Mount	Yes / No / Explain		
6	Display Fabric Material	Matte White	Yes / No / Explain		
7	Gain	1:1	Yes / No / Explain		
8	Remote Controller	Yes	Yes / No / Explain		
9	Type of Remote	Wireless	Yes / No / Explain		
10	Ceiling Mount kit and other Accessories for Installation	Yes.	Yes / No / Explain		
11	Motorised with tab tension Support	Yes	Yes / No / Explain		

16. HDMI to USB CONVERTER - HDMI to USB 3.0 Capture Box

Item specifications for HDMI to USB CONVERTER

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type of Device	USB capture device with 1 or more input	Yes / No / Explain		

2	No. of Input (HDMI)	1 or more	Yes / No / Explain		
3	No. of Output (USB 3.0)	1 or more	Yes / No / Explain		
4	USB Compatibility	3	Yes / No / Explain		
5	Video input Resolution	3840 x 2160	Yes / No / Explain		
6	Audio Input	Stereo Jack	Yes / No / Explain		
7	Connecting cables and adapter	Yes	Yes / No / Explain		

17. EQUIPMENT RACK -19 inches

Item specifications for EQUIPMENT RACK

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type of Rack	Portable Rack	Yes / No / Explain		
2	Usable Height	26 U	Yes / No / Explain		
3	Usable Width	19 inch	Yes / No / Explain		
4	Mount Type	Free Standing	Yes / No / Explain		
5	Front Glass Door	Yes	Yes / No / Explain		
6	Secure Locks	Yes	Yes / No / Explain		
7	Support Cable Entry From Top or Bottom	Yes	Yes / No / Explain		
8	No. of Fan for Heat Dissipation	1 No.	Yes / No / Explain		
9	No. of Rack Trays	2 or more	Yes / No / Explain		
10	6 Outlet Power Strip with 6A Universal Socket	3 Nos. Or more	Yes / No / Explain		
11	Over all width	600 mm	Yes / No / Explain		

12	Over all depth	600 to 800 mm	Yes / No / Explain		
13	Removable side panels	Yes	Yes / No / Explain		
14	Heavy duty caster wheels	Yes 4 nos (minimum 2 nos with brake)	Yes / No / Explain		
15	Mounting screws and all other accessories required for installation	Yes	Yes / No / Explain		

18. Display Port (Male) to HDMI (Female) Adapter / Adapter cable -

Item specifications for Display Port (Male) to HDMI (Female) Adapter / Adapter cable -

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Input - Display Port (Male)	1 or more	Yes / No / Explain		
2	Output - HDMI Port (Female)	1 or more	Yes / No / Explain		
3	Supported Resolution	4K @60Hz (4 : 4 : 4)	Yes / No / Explain		

19. USB Type-C (Male) to HDMI (Female) Adapter / Adapter cable

Item specifications for USB Type-C (Male) to HDMI (Female) Adapter / Adapter cable

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Input	InputOne Type C Male	Yes / No / Explain		
2	Output	1 HDMI Female	Yes / No / Explain		
3	Supported Resolution	4K @60Hz (4 : 4 : 4)	Yes / No / Explain		

20. HDBase T Transmitter

Item specifications for HDBase T Transmitter

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Inputs	1 HDMI: on a female HDMI connector	Yes / No / Explain		
2	Outputs	1 HDBT: on an RJ-45 female connector	Yes / No / Explain		
3	IR port on a 3.5 mm connector	1 or more	Yes / No / Explain		
4	RS-232 port	1 or more	Yes / No / Explain		
5	Video resolution	4K UHD @60 Hz (4:4:4) upto 100 meters	Yes / No / Explain		
6	Video (Max data rate)	17 Gbps or better	Yes / No / Explain		
7	HDCP 2.2 content protection	Yes	Yes / No / Explain		
8	HD base T 2.0 compliant	Yes	Yes / No / Explain		
9	PoE Remote Powering for Receiver Unit	Yes	Yes / No / Explain		
10	Range	100 meter or better	Yes / No / Explain		
11	Power Adapter Included	Yes	Yes / No / Explain		

21. HDBase T Receiver

Item specifications for HDBase T Receiver

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Inputs	1 HDBT: on an RJ-45 female connector	Yes / No / Explain		
2	Outputs	1 HDMI: on an HDMI connector	Yes / No / Explain		
3	IR port on a 3.5 mm connector	1 or more	Yes / No / Explain		
4	RS-232 port	1 or more	Yes / No / Explain		
5	Video resolution	4K UHD @60 Hz (4:4:4) upto 100 meters	Yes / No / Explain		
6	Video (Max data rate)	17 Gbps or better	Yes / No / Explain		

7	HDCP 2.2 content protection	Yes	Yes / No / Explain		
8	HD base T 2.0 compliant	Yes	Yes / No / Explain		
9	PoE extension supported	Yes	Yes / No / Explain		
10	Range	100 meter or better	Yes / No / Explain		
11	Power Adapter Included	Yes	Yes / No / Explain		

22. HDMI table flip box for laptop

Item specifications for HDMI table flip box for laptop

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Input	1 HDMI: on a female HDMI connector	Yes / No / Explain		
2	RJ45 port	1 or more	Yes / No / Explain		
3	3 Pin Indian standard Power socket	Yes	Yes / No / Explain		

23. Installation and Commissioning - Cables and connectors

Item specifications for Installation and Commissioning

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Installation, testing, commissioning, documentation, programming, training & demonstration of above system with required PVC conduit, speaker wiring termination, testing & demonstration	Yes	Yes / No / Explain		

2	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	Yes / No / Explain		
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24. Comprehensive AMC for - 2 years after warranty period - 1st year

Item specifications for Comprehensive AMC for

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	comprehensive SMC after 3 years warranty period	YES	Yes / No / Explain		

25. Comprehensive AMC for - 2 years after warranty period - 2nd year

Item specifications for Comprehensive AMC for

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	comprehensive SMC after 3 years warranty period	yes	Yes / No / Explain		

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Warranty	Three years from the date of acceptance of the systems	Yes / No / Explain		
2	Comprehensive AMC	Rates for the next 2 years after completion of warranty shall be quoted explicitly	Yes / No / Explain		

Supporting Documents required from Vendor

1. certificate from OEM

2. Compliance of specification (format as provided in the indent)

3. terms and conditions

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Bidders interested in the pre bid visit may contact the Sr. Purchase and Stores Officer (Ph: 080 25037140/171 before 5 PM on date by sending an email to purchase@lpscb.gov.in	Yes / No / Explain	
2	Comprehensive AMC: rates for the next 2 years after completion of warranty period shall be quoted explicitly	Yes / No / Explain	
3	14)As the scope of work involves installation and configuration of audio/video equipments in a conference hall, splitting of the Purchase Order to multiple parties shall not be carried out	Yes / No / Explain	
4	13)Delivery period: 2 months for delivery. 1 month for installation	Yes / No / Explain	
5	Make in India (MII):-The MII content of items quoted in percentage of total value and location at which value addition is made should be specified by the suppliers along with the offer. A minimum of 20% MII content is required for the total items quoted.	Yes / No / Explain	
6	11)The party shall be ready for a demonstration of the sample product at LPSC at the time of technical evaluation if requested. A confirmation for this demonstration has to be included in the technical offer	Yes / No / Explain	
7	10)The configuration files of the audio DSPs installed and programmed should be handed over to LPSCB at the time of commissioning of the facility	Yes / No / Explain	
8	9)The system integration document with all installation details and the operation manual for the user need to be provided at the time of commissioning of the system.	Yes / No / Explain	
9	8)Training on the facility operation should be given to LPSC officials, including hands on sessions.	Yes / No / Explain	
10	All necessary audio/video cables, connectors, converters, consumables, and other accessories required for the installation and integration with existing facility has to be supplied	Yes / No / Explain	

11	7)Installation and commissioning have to be carried out as per LPSC's requirements and the connectivity to the existing systems/facilities has to be carried out by the supplier	Yes / No / Explain	
12	6)Updates/renewal of licenses: For all the licensed products, required licenses shall be submitted with appropriate authorization. Updates/renewal of such licenses during warranty & AMC periods will be the responsibility of the vendor	Yes / No / Explain	
13	4)Pre-bid visit:-The interested parties can visit the proposed conference halls for getting an overall idea about the AV facility to be established. This is to enable the parties to understand the technical requirements and criticality involved	Yes / No / Explain	
14	3)The make and model no. of all items quoted should be explicitly specified by the suppliers along with their offer. Datasheet of quoted items should be included alongwith the bid	Yes / No / Explain	
15	In case the OEM provides more than three years of comprehensive warranty support, the same shall be passed on to LPSC.	Yes / No / Explain	
16	2)Authorization certificate from the OEM stating back-to-back onsite comprehensive warranty support for 3 years and support for spares should be submitted. The warranty certificate shall be submitted at the time of commissioning the facility	Yes / No / Explain	
17	1)Warranty:- All the items shall have a warranty period of three years from the date of acceptance of the systems.	Yes / No / Explain	
18	Onsite supply	Yes / No / Explain	
19	Validity of offer: 120 days (for Two Part Tender) from the date of opening of tender or as specified in the Tender Document.	Yes / No / Explain	
20	Goods and Services Tax (GST): Kindly mention percentage of GST considered in your offer along with HSN Code.	Yes / No / Explain	
21	Delivery Terms: FOR LHWC, Bangalore	Yes / No / Explain	
22	Delivery Period: The supply shall be completed within 02 months from the date of receipt of PO and 1 month for Installation after supply.	Yes / No / Explain	

23	Payment Terms: 100% payment shall be made within 30 days of receipt, acceptance and installation of the items at our site.	Yes / No / Explain	
24	Liquidated Damages (LD): If the ordered items are not supplied within the delivery schedule, LD shall be levied from your bill @ 0.5% of the order value per week or 0.5% of the value of the stores for which the delivery is delayed for each week of delay subject to a maximum of 5% of the order value. However, in case of inordinate delay in completion period, LD@10% shall be recovered.	Yes / No / Explain	
25	Performance Bank Guarantee (PBG): You have to submit PBG towards fulfilment of warranty obligations and performance of the system for 3% of the Order Value from a Nationalized / Scheduled Bank on non-judicial stamp paper of appropriate value valid till the completion of warranty period plus 60 days as per the format provided by Department. (OR) 3% of the Order Value shall be withheld till the completion of Warranty period plus 60 days.	Yes / No / Explain	
26	Security Deposit (SD): You have to furnish a Bank Guarantee from a Nationalized / Scheduled Bank on non-judicial stamp paper of appropriate value for 3% of the order value within 10 days of receipt of order towards the faithful execution of the order valid till the completion of the scope of work as per order plus sixty days (as claim period). SD shall only be applicable for order value above INR 5.00 Lakhs. SD shall be returned to you immediately on execution of the order satisfactorily as per order terms. In case of non-performance / poor performance, the amount shall be withheld.	Yes / No / Explain	
27	SD cum PBG: In case, if parties are unable to provide two separate BGs, i.e. one for SD and one for PBG, they can submit a combined BG for SD & PBG within 10 days of receipt of order for 3% of order value valid till the completion of total contractual obligation (i.e. supply period plus warranty period plus 60 days) as per the format provided by the Department.	Yes / No / Explain	

28	Insurance: Being a Government of India Department, Insurance is not required at our cost. Please ensure the safe delivery of the ordered item with proper AIR / SEA / ROAD worthy packing.	Yes / No / Explain	
29	Bidders interested in site visit may visit the LHWC Premises till 2 days before bid submission due date i.e. till 29/01/2025 up to 14:00 hours. Before visit, the details / particulars of visitors with date and time (maximum 2 visitors per vendor) shall be informed to purchase division through email id: purchase@lpsc.gov.in at least a day before visit for arranging gate pass and other security arrangements	Yes / No / Explain	
30	Address, contact details Telephone Number, e-mail, etc. on which order to be placed, is to be updated before submission of quote in EGPS portal in Vendor credentials & Profile.	Yes / No / Explain	
31	Details of Principal: Address, contact details like Telephone Number, e-mail, etc. (if applicable)	Yes / No / Explain	
32	Bank Details: Bank name, Branch address, Account No., IFSC Code, IBAN Number, SWIFT, etc.	Yes / No / Explain	
33	Local Content (%): Please mention the percentage of Local Content and the location where local value addition takes place (Kindly enclose self-certification document)	Yes / No / Explain	
34	MSE Status: Kindly mention the classification under MSE and submit supporting documentation (if applicable)	Yes / No / Explain	
35	Comprehensive AMC: Comprehensive AMC for the entire system for a period of 2 years after the completion of the warranty. period as per Annexure - 2, Clause No. 4 is mandatory for evaluation of bids	Yes / No / Explain	
36	Preventive Maintenance: Once in three months as per annexure-2, Clause No. 4.10	Yes / No / Explain	
37	Break down maintenance: Break down maintenance as per annexure-2, Clause No. 4.11	Yes / No / Explain	
38	Payment terms for AMC: Maintenance charges shall be paid after every quarter proportionately on completion of each satisfactory service against submission of Invoice and duly certified service. report.	Yes / No / Explain	

39	Maintenance shall be carried out at our premises only. In case any item has to be taken to your premises for repairs, necessary Bank Guarantee for the value of the item shall be furnished, and valid till returning of the item.	Yes / No / Explain	
40	During AMC, in the event of damages to our property or injury to our personnel due to the negligence of your employees, the responsibility shall solely rests with you.	Yes / No / Explain	
41	Fall Clause: The rate charged for the work / supply shall in no event exceed the lowest rates for the similar work/supply to any other party during the period of the contract. If at any time during stipulated time period, reduction on the charges for similar work / supply to other customer extended by you, shall forthwith notify to the Purchase and Stores Division, rate payable under the contract after the rate, coming into force of such reduction shall stand correspondingly reduced & refunded to us	Yes / No / Explain	
42	Down-time Compensation: In case the break-down are not attended to in time, i.e., within 48 hrs. of our intimation, down-time compensation at the rate of 0.5% of the Annual Maintenance charges per day shall be recovered from the vendor subject to a maximum of 5% of the Contract value.	Yes / No / Explain	
43	Income Tax, as applicable shall be deducted from your Bill, at source.	Yes / No / Explain	
44	We are at the option to place a separate PO for Comprehensive AMC for 2 years as per offered price, terms after successful completion of warranty period of 3 years.	Yes / No / Explain	
45	Any other terms	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
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1	PTZ Video Conferencing Camera - Full HD PTZ USB Conferencing Camera With Remote Control	1.00 Nos.					
2	Colour LED/LCD Display 65 inches	2.00 Nos.					
3	Colour LED/LCD Display 75 inches	2.00 Nos.					
4	MICROPHONES- table top boundary microphones	17.00 Nos.					
5	MICROPHONES-wireless tie-clip microphones	2.00 Nos.					
6	MICROPHONES-wireless hand-held microphones	2.00 Nos.					
7	Ceiling Mount Speakers	8.00 Nos.					
8	Power Amplifier - 4 channel	2.00 Nos.					
9	Audio Digital Signal Processor-12 channel analog AEC inputs&8 analog outputs	2.00 Nos.					
10	HDMI Matrix Switcher 8x8	1.00 Nos.					
11	DISTRIBUTION AMPLIFIER 1x4 HDMI	2.00 Nos.					
12	USB 3.0 peripheral sharing switch	1.00 Nos.					
13	LED Monitor - 27 INCHES	1.00 Nos.					

14	OPTICAL LIGHT PROJECTOR SYSTEM	2.00 Nos.		-		
15	Motorised Projection Screen	2.00 Nos.		-		
16	HDMI to USB CONVERTER - HDMI to USB 3.0 Capture Box	1.00 Nos.		-		
17	EQUIPMENT RACK -19 inches	1.00 Nos.		-		
18	Display Port (Male) to HDMI (Female) Adapter / Adapter cable -	5.00 Nos.		-		
19	USB Type-C (Male) to HDMI (Female) Adapter / Adapter cable	5.00 Nos.		-		
20	HDBase T Transmitter	4.00 Nos.		-		
21	HDBase T Receiver	4.00 Nos.		-		
22	HDMI table flip box for laptop	1.00 Nos.		-		
23	Installation and Commissioning - Cables and connectors	1.00 Lot		-		
24	Comprehensive AMC for - 2 years after warranty period - 1st year	1.00 Years		-		
25	Comprehensive AMC for - 2 years after warranty period - 2nd year	1.00 Years		-		

Common charges (Applicable for all items)

P & F Charges	
Freight if any (Value)	
Installation & Configuration	
Other Costs, if any (Value)	
Taxes, if any (Percentage)	