

WEBEL TECHNOLOGY LIMITED

CORRIGENDUM – IV

WTL/PNRD/VC/23-24/078 dated: 16.03.2024

Sl. No	Section	Clause No. / Name	Page No.	Existing Description	To be Read As
1.	Section – D	ELIGIBILITY CRITERIA	26	Bidder should have minimum 100 (One Hundred) nos. manpower on bidder"s payroll. A declaration from the Bidder"s HR Department should be submitted.	Bidder should have minimum 100 (One Hundred) nos. man power on bidder"s payroll. A declaration from the Bidder"s HR Department should be submitted. Copy of PF & ESI Challan for the month of January, February & March 2024 to be Submitted along with the Bid.
2.	Section – D	ELIGIBILITY CRITERIA	27	Average annual turnover of the Video conferencing system OEM should be minimum of Rs. 500.00 (Five Hundred) Crore during last three financial years (considering FY – 2020-21, 2021-22, 2022-2023). Supporting documents must be submitted.	Aggregate turnover of the Video conferencing system OEM should be minimum Rs. 250.00 (Two Hundred Fifty) Crore during last three financial years (considering FY – 2020-21, 2021-22, 2022-2023). Supporting documents must be submitted.
3.	Section – D	ELIGIBILITY CRITERIA	27	Average annual turnover of the Interactive Board OEM should be minimum of Rs. 15000.00 (Fifteen Thousand) Crore during last three financial years (considering FY – 2020-21, 2021-22, 2022-2023). Supporting documents must be submitted.	Aggregate turnover of the Interactive Board OEM should be minimum of Rs. 250.00 (Two Hundred Fifty)Crore during last three financial years (considering FY – 2020-21, 2021-22, 2022-2023). Supporting documents must be submitted.
4.	Section – F	Technical Evaluation Process	42	The bidder shall have executed projects for Network/IT Infrastructure/Data Center of two orders in total amount not less than Rs.7.00 Crore in last 05 (Five) financial years (considering FY – (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.	The bidder shall have executed projects for Network/IT Infrastructure/Data Center of 03 (Three) orders in total amount not less than Rs.7.00 Crore in last 05 (Five) financial years (considering FY – (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.
5.	Section – F	Technical Evaluation Process (Evaluation)	42	Two Orders meeting the requirement – 15 Marks	Three Orders meeting the requirement – 15 Marks

WEBEL TECHNOLOGY LIMITED

6.	Section – F	Technical Evaluation Process	42	The bidder shall have executed projects for Network/IT Infrastructure/Data Center of three orders in total amount not less than Rs.9.00 Crore in last 05 (Five) financial years (considering FY – (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.	The bidder shall have executed projects for Network/IT Infrastructure/Data Center of 04 (Four) orders in total amount not less than Rs.9.00 Crore in last 05 (Five) financial years (considering FY – (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) in Government Department/PSU/Autonomous Body. References order copy with the completion certificate for the project to be provided.
7.	Section – F	Technical Evaluation Process (Evaluation)	42	Three Orders meeting the requirement – 10 Marks)	04 (Four) Orders meeting the requirement – 10 Marks)
8.	Section – F	Technical Evaluation Process	42	Bidder must provide details of existing service and support infrastructure in all 3 zones in West Bengal, for last 5 years.	Bidder /OEM must provide details of existing service and support infrastructure in West Bengal, for last 5 years.
9.	Section – F	Technical Evaluation Process	43	OEM Repair Center in Kolkata – The Proposed OEMs must have own repair center registered in West Bengal for last 3 years.	OEM Repair Center in Kolkata – The Proposed OEMs must have own repair center in West Bengal for last 3 years.
10.	Section – O	Miscellaneous Items (Included in SITC): NETWORK COMPONENTS	68	The Active networking OEM for the all active network items should have a registered office in India and should directly present for last 25 years in India, from date of RFP publication.	The Active networking OEM for the all active network items should have a registered office in India and should directly present for last 20 years in India, from date of RFP publication.
11.	Section – O	Specification for Video Conferencing Camera & Expansion Mic. For Zone - 1	61 to 64	Specification for Video Conferencing Camera & Expansion Mic.	Modified
12.	Section – O	Specification for Video Conferencing Camera & Expansion Mic. For Zone - 2	74 to 77	Specification for Video Conferencing Camera & Expansion Mic.	Modified
13.	Section – O	Specification for Video Conferencing Camera & Expansion Mic. For Zone - 3	87 to 90	Specification for Video Conferencing Camera & Expansion Mic.	Modified
14.	Section – O	Interactive Panel	65	Specification for 65"	4K LED Interactive Touch

WEBEL TECHNOLOGY LIMITED

				Interactive Panel	Panel
15.	Section – O	1.1.12 POE Switch	68	16 Port POE SWITCH SPECIFICATION	Deleted
16.	Section – O	1.1.15 UPS	73	1 KVA ONLINE UPS SPEC	Modified
17.	Section – O	Interactive Panel	78	Specification for 65" Interactive Panel	4K LED Interactive Touch Panel
18.	Section – O	1.1.16 POE Switch	82	16 Port POE SWITCH SPECIFICATION	Deleted
19.	Section – O	1.1.19 UPS	86	1 KVA ONLINE UPS SPEC	Modified
20.	Section – O	Interactive Panel	91	Specification for 65" Interactive Panel	4K LED Interactive Touch Panel
21.	Section – O	1.1.20 POE Switch	95	16 Port POE SWITCH SPECIFICATION	Deleted
22.	Section – O	1.1.23 UPS	99	1 KVA ONLINE UPS SPEC	Modified
23.	Section – O	6 U RACK	71	6 U RACK SPECIFICATION	Deleted
24.	Section – O	6 U RACK	84	6 U RACK SPECIFICATION	Deleted
25.	Section – O	6 U RACK	97	6 U RACK SPECIFICATION	Deleted
26.	Section – O	55" Display	67	55" Display Specifications:	Modified
27.	Section – O	55" Display	79	55" Display Specifications:	Modified
28.	Section – O	55" Display	92	55" Display Specifications:	Modified

Section – O

TECHNICAL SPECIFICATION COMPLIANCE STATEMENT **FOR Zone – 1**

1. Eligibility criteria for OEMs for Integrated VC System

Sl. No.	General Conditions	Compliance with Document / Undertaking
1	Complete camera, speakerphone, remote control and microphone should single OEM solution.	
2	System should, support USB Connectivity for Video conference	
3	The camera and speakerphone should have CB/UL, CE, FCC and RoHS certifications.	
4	The Systems Should have ISO 9001:2015	
5	The OEM Must have valid ISO 9001:2015, ISO 45001:2018, ISO 27001:2022 and ISO 14001:2015 Certified Company	
6	Make In India OEM	
7	OEM for the system should be listed in India for more than 15 years as on bid calling date.	
8	Service centre in each of the metro cities : Kolkata, Delhi , Mumbai , Bangalore , Chennai.	

WEBEL TECHNOLOGY LIMITED

9	OEM should be Make In India OEM & Turnover 100 cr last 3 Years	
10	The OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA	

SINo	Feature	Specification	Compliance (Y/N)	Remarks
1	General Requirement (OEM Eligibility Criteria)	Complete camera, speakerphone, remote control and microphone should single OEM solution.		
		System should, support USB Connectivity for Video conference		
		System must have all required certification CE, FCC, ROHS & CB certification.		
		System should be Indian Standard: 9000 certified		
		OEM for the system should be ISO 9001:2008 certified.		
		All required components of the system should have Make In India OEM		
		OEM for the system should be listed in India 15+ Years. (Valid Certificate of incorporation required).		
		Service centre in each of the metro cities : Kolkata, Delhi , Mumbai , Bangalore .		
		OEM should not be a foreign brand. OEM should be Make In India, to promote the local brands under the Govt. Of India 'Make in India' initiative.		
		OEM should be Make In India OEM & Turnover 100 cr last 3 Years		
2	Camera	USB PLUG & Play Device		
		System should support should support on Board H.264 or better on board Encoding to save PC processing power and should support USB 2.0 Plug and play		
		Output: H.264 , USB		
		Optical Resolution: 2 MP (1080p 30fps or above).		
		Sensor size: 1/2.7 ' , CMOS		
		High SNR of CMOS sensor combined with 2D and 3D noise reduction algorithm, effectively reduce the noise, even under low illumination conditions		
		Port: USB 2.0 for end device connectivity.		

WEBEL TECHNOLOGY LIMITED

2		FOV: Diagonal 68°, Horizontal 55° and vertical 42° or above.		
		Aperture : F2.0 ~ 3.0		
		Should support autofocus.		
		It should also be possible for user to control camera via simple software application in PC & Mac.		
		Lens Should be sony lens		
		Support RS232 for Camera Control		
		The camera must support at least 10x optical zoom, 16x Digital zoom		
		Camera Control: Standard VISCA / Mini din 6pin or equivalent.		
		The camera should have a PAN rotation angle of -170 degree to +170 Tilt rotation angle of -30 degrees to +90 degree or better		
		Minimum illumination : 0.5 lux		
	Preset : 255 or above			
3	Integrated Speakerphone	All necessary cables for all the components , power adaptors , regional plugs, quick start guide along with the mounting bracket should be supplied by the OEM.		
		Buttons:- Mute Mic, Mute Speaker, Vol Up/Down buttons. USB port for software Video- calling.		
		Audio Technology : Must support Echo cancellation, Noise reduction,		
		Must have full duplex performance for real time communication.		
		Frequency response : 100hz - 22 kHz		
		Noise reduction 18dB		
		92DB		
4	Integrated Microphones	Built in Accoustic Echo Cancellation		
		Four inbuilt omni-directional microphones supporting 20-foot or more diameter range		
		Frequency response : 100hz - 22 kHz		
		Noise reduction 18dB		

WEBEL TECHNOLOGY LIMITED

		System should be supplied with atleast 2 expansion microphones to increase coverage for large conference rooms.		
		Integrated microphone and supported expansion microphone should have mute/unmute button so that user sitting at any corner of conference room have provision to mute/unmute . with LED indication on each of microphone.		
5	Expansion Microphones	Noise reduction 18dB		
		Type : Omni-directional		
		Should support noise canceling individually.		
		Frequency response : 100hz - 22 kHz		
6	Cable Management and ambience	LED color indicator : Green -active call ; Red -microphone Mute.		
		System should support cable manager for connection of all components in system so that the USB cable (for camera & speakerphone) with 3mts of minimum length is connected to end device(laptop /Mac / Codec/ desktop or thin client)		
7	Remote Control	All necessary cables for all the components , power adaptors , regional plugs, quick startguide along with the mounting bracket should be supplied by the OEM.		
		Type: Infrared with removable / replaceable batteries.		
		System should be supplied with all-in-one remote control to manage Camera (Pan,Tilt,Zoom, Preset) Speakerphone Volume control through Bottom (mute /unmute)		
8	Operating Temperature	Camera should operate from -10 to 40degree		

2. Minimum Technical Specification of 4K LED Interactive Touch Panel

Qty.				
Make				
Model				
Sl. No.	Component	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1.	Display Panel Diagonal size	65 Inches or higher		
2.	Resolution	3840 x 2160 (4K or Higher)		
3.	Display Colour	1.07 Billion or Higher		
4.	Brightness	≥400 cd/m ² or better		
5.	Viewing Angle	±178 ° or better viewing angle		

WEBEL TECHNOLOGY LIMITED

6.	Contrast ratio	1200:1		
7.	Dynamic Contrast Ratio	30000:1		
8.	Response Time	Not more than 8 ms		
9.	Lifetime	50,000 hours or more		
10.	Speakers	2 x 18 Watts or Higher		
11.	Deployment of Touch Technology	Advanced Infrared		
12.	Thickness of the touch glass	4mm Toughened Glass with 9H Toughness or better		
13.	Surface technology	Anti-Glare		
14.	Touch accuracy	1mm or better		
15.	Touch Points in Windows	Must have a touch capability of minimum 20 points		
16.	Front Interface	HDMI in*1, USB touch*1,USB3.0*2		
17.	Inputs	HDMI in*2,VGA*1, VGA audio in*1,USB2.0*1,Public USB3.0*1, USB touch*1, LAN in*1		
18.	Outputs	SPDIF out*1,Audio Out		
19.	Other	RS232*1		
20.	CPU	Quad-core * A55 1.5GHz or better		
21.	GPU	G52 2EE MC1@550MHz or better		
22.	Android version	Android 11.0 or Higher (With Play store)		
23.	Built-in Software:	Whiteboard, File manager, Screen mirroring, Chrome, googleplaystore, Youtube, WPS, Welcome Page, Settings, Calculator, User Manual, Float tool, Side tool bar, Note, Vote, Screen recording.,Wireless Content sharing, text recognition.		
24.	Inbuilt WiFi	Dual WIFI (5G & 2.4G), Dual Hotspot (5G & 2.4G) or better		
25.	Bluetooth	BT5.0 or better		
26.	RAM	4 GB or Higher		
27.	ROM	32 GB or Higher		
28.	Certification	BIS (Indian), CE, FCC & ROHS certification. ISO 9001:2015,ISO		

WEBEL TECHNOLOGY LIMITED

		45001:2018, ISO 27001:2013 and ISO 14001:2015 Certified Company. (Related certificate copy required)		
29.	Warranty	3 Years or Higher.		

3. Minimum Technical Specification of Specification for 55" Display

Qty.				
Make				
Model				
Sl. No.	Feature	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1.	Display Size(Diagonal)	55"		
2.	Resolution	3840x2160		
3.	Backlight Unit Type	Direct / Edge		
4.	Brightness	300 nits or above		
5.	Dynamic Contrast Ratio(Dynamic MCI(Hz))	10,00,000:1		
6.	Static(Panel) Contrast Ratio	1,200:1		
7.	Refresh Rate	60Hz		
8.	HDR(10PRO/HLG)			
9.	Speaker (Sound Output)	10W + 10 W		
10.	Input Interface	HDMI IN(3(2.0)), Headphone Out (Phone Jack type),RS232(D-SUB9 pin/Phone Jack)(Phone Jack 4 Pin)		
11.	Jack Interface	USB 2.0,Digital Audio Out (Optical), External Speaker Out(3.5mm Phone Jack), RJ45(Usage Purpose) (LAN)		
12.	Power Supply (VoltageHz)	AC 120V-50/60 Hz		
13.	Typical Power Consumption	145 W		
14.	Safety Certification	CB,CU,TR		
15.	EMC	CE		
16.	Smart Features	Web Browser, Pre-Loaded App, Soft AP, Wi-Fi (802.11ac), Bluetooth, HDMI- ARC		
17.	Screen Share	Miracast, Smart Share		

4. Minimum Technical Specification of UPS

Qty.				
Make				
Model				
Sl. No.	Feature	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1.	Capacity	Capacity : 1KV		
2.	Input Voltage range	140Vac - 300Vac		
3.	Input Frequency	40-70Hz		
4.	Output on battery	220/230/240Vac±10%		

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	Voltage			
5.	Automatic Voltage Regulation (AVR)	Double Boost/Single Buck		
6.	On Battery Frequency	50/60Hz \pm 1%		
7.	Outlets - Total	4		
8.	Battery Type	Sealed lead acid battery		
9.	Battery Quantity	2		
10.	Backup Time	15 mins		
11.	Audible Alarm	Alarm when on battery backup mode, Low battery, overload.		
12.	Operating Temperature	+ 32°F to 104° F / 0° C to 40° C		
13.	Operating Humidity	0% - 90% non-condensing		
14.	Operating Elevation	0-3000 meters		
15.	Storage Temperature	- 4°F to 122° F / -20° C to 50° C		
16.	Storage Relative Humidity	0% - 90%		
17.	Online Thermal Dissipation	45BTU/hr		
18.	Manufacturer Credentials	Manufacturer should be ISO 9001, ISO14001 & 18001, BIS Certified		
19.	Warranty	Three (3) years on-site comprehensive warranty including battery from OEM. OEM certificate should be submitted		

Section – O

TECHNICAL SPECIFICATION COMPLIANCE STATEMENT **FOR Zone – 2**

1. Eligibility criteria for OEMs for Integrated VC System

Sl. No.	General Conditions	Compliance with Document / Undertaking
1	Complete camera, speakerphone, remote control and microphone should be single OEM solution.	

WEBEL TECHNOLOGY LIMITED

2	System should, support USB Connectivity for Video conference	
3	The camera and speakerphone should have CB/UL, CE, FCC and RoHS certifications.	
4	The Systems Should have ISO 9001:2015	
5	The OEM Must have valid ISO 9001:2015, ISO 45001:2018, ISO 27001:2022 and ISO 14001:2015 Certified Company	
6	Make In India OEM	
7	OEM for the system should be listed in India for more than 15 years as on bid calling date.	
8	Service centre in each of the metro cities : Kolkata, Delhi , Mumbai , Bangalore , Chennai.	
9	OEM should be Make In India OEM & Turnover 100 cr last 3 Years	
10	The OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA	

SINo	Feature	Specification	Compliance (Y/N)	Remarks
1	General Requirement (OEM Eligibility Criteria)	Complete camera, speakerphone, remote control and microphone should single OEM solution.		
		System should, support USB Connectivity for Video conference		
		System must have all required certification CE, FCC, ROHS & CB certification.		
		System should be Indian Standard: 9000 certified		
		OEM for the system should be ISO 9001:2008 certified.		
		All required components of the system should have Make In India OEM		
		OEM for the system should be listed in India 15+ Years. (Valid Certificate of incorporation required).		
		Service centre in each of the metro cities : Kolkata, Delhi , Mumbai , Bangalore .		
		OEM should not be a foreign brand. OEM should be Make In India, to promote the local brands under the Govt. Of India 'Make in India' initiative.		
		OEM should be Make In India OEM & Turnover 100 cr last 3 Years		
		USB PLUG & Play Device		

WEBEL TECHNOLOGY LIMITED

2	Camera	System should support should support on Board H.264 or better on board Encoding to save PC processing power and should support USB 2.0 Plug and play		
		Output: H.264 ,USB		
		Optical Resolution: 2 MP (1080p 30fps or above).		
		Sensor size: 1/2.7 ', CMOS		
		High SNR of CMOS sensor combined with 2D and 3D noise reduction algorithm, effectively reduce the noise, even under low illumination conditions		
		Port:USB2.0 for end device connectivity.		
		FOV: Diagonal 68°,Horizontal 55°and vertical 42°or above.		
		Aperature : F2.0 ~ 3.0		
		Should support autofocus.		
		It should also be possible for user to control camera via simple software application in PC & Mac.		
		Lens Should be sony lens		
		Support RS232 for Camera Control		
		The camera must support at least 10x optical zoom,16x Digital zoom		
		Camera Control: Standard VISCA / Mini din 6pin or equivalent.		
		The camera should have a PAN rotation angle of -170 degree to +170 Tilt rotation angle of -30 degrees to +90degree or better		
Minimum illumination : 0.5 lux				
Preset : 255 or above				
3	IntegratedSpeakerphone	All necessary cables for all the components , power adaptors , regional plugs, quick start guide along with the mounting bracket should be supplied by the OEM.		
		Buttons:- Mute Mic, Mute Speaker, Vol Up/Down buttons. USB port for software Video- calling.		
		Audio Technology : Must support Echo cancellation, Noise reduction,		

WEBEL TECHNOLOGY LIMITED

		Must have full duplex performance for real time communication.		
		Frequency response : 100hz - 22 kHz		
		Noise reduction 18dB		
		92DB		
4	Integrated Microphones	Built in Accoustic Echo Cancellation		
		Four inbuilt omni-directional microphones supporting 20-foot or more diameter range		
		Frequency response : 100hz - 22 kHz		
		Noise reduction 18dB		
		System should be supplied with atleast 2 expansion microphones to increase coverage for large conference rooms.		
		Integrated microphone and supported expansion microphone should have mute/unmute button so that user sitting at any corner of conference room have provision to mute/unmute . with LED indication on each of microphone.		
5	Expansion Microphones	Noise reduction 18dB		
		Type : Omni-directional		
		Should support noise canceling individually.		
		Frequency response : 100hz - 22 kHz		
6	Cable Management and ambience	LED color indicator : Green -active call ; Red -microphone Mute.		
		System should support cable manager for connection of all components in system so that the USB cable (for camera & speakerphone) with 3mts of minimum length is connected to end device(laptop /Mac / Codec/ desktop or thin client)		
7	Remote Control	All necessary cables for all the components , power adaptors , regional plugs, quick startguide along with the mounting bracket should be supplied by the OEM.		
		Type: Infrared with removable / replaceable batteries.		
		System should be supplied with all-in-one remote control to manage Camera (Pan,Tilt,Zoom, Preset) Speakerphone Volume control through Bottom (mute /unmute)		
8	Operating Temperature	Camera should operate from -10 to 40degree		

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2. Minimum Technical Specification of 4K LED Interactive Touch Panel

Qty.				
Make				
Model				
Sl. No.	Component	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1.	Display Panel Diagonal size	65 Inches or higher		
2.	Resolution	3840 x 2160 (4K or Higher)		
3.	Display Colour	1.07 Billion or Higher		
4.	Brightness	≥400 cd/m ² or better		
5.	Viewing Angle	±178 ° or better viewing angle		
6.	Contrast ratio	1200:1		
7.	Dynamic Contrast Ratio	30000:1		
8.	Response Time	Not more than 8 ms		
9.	Lifetime	50,000 hours or more		
10.	Speakers	2 x 18 Watts or Higher		
11.	Deployment of Touch Technology	Advanced Infrared		
12.	Thickness of the touch glass	4mm Toughened Glass with 9H Toughness or better		
13.	Surface technology	Anti-Glare		
14.	Touch accuracy	1mm or better		
15.	Touch Points in Windows	Must have a touch capability of minimum 20 points		
16.	Front Interface	HDMI in*1, USB touch*1,USB3.0*2		
17.	Inputs	HDMI in*2,VGA*1, VGA audio in*1,USB2.0*1,Public USB3.0*1, USB touch*1, LAN in*1		
18.	Outputs	SPDIF out*1,Audio Out		
19.	Other	RS232*1		
20.	CPU	Quad-core * A55 1.5GHz or better		
21.	GPU	G52 2EE MC1@550MHz or better		
22.	Android version	Android 11.0 or Higher (With Play store)		

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23.	Built-in Software:	Whiteboard, File manager, Screen mirroring, Chrome, googleplaystore, Youtube, WPS, Welcome Page, Settings, Calculator, User Manual, Float tool, Side tool bar, Note, Vote, Screen recording., Wireless Content sharing, text recognition.		
24.	Inbuilt WiFi	Dual WIFI (5G & 2.4G), Dual Hotspot (5G & 2.4G) or better		
25.	Bluetooth	BT5.0 or better		
26.	RAM	4 GB or Higher		
27.	ROM	32 GB or Higher		
28.	Certification	BIS (Indian), CE, FCC & ROHS certification. ISO 9001:2015,ISO 45001:2018, ISO 27001:2013 and ISO 14001:2015 Certified Company. (Related certificate copy required)		
29.	Warranty	3 Years or Higher.		

3. Minimum Technical Specification of Specification for 55" Display

Qty.				
Make				
Model				
Sl. No.	Feature	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1.	Display Size(Diagonal)	55"		
2.	Resolution	3840x2160		
3.	Backlight Unit Type	Direct / Edge		
4.	Brightness	300 nits or above		
5.	Dynamic Contrast Ratio(Dynamic MCI(Hz))	10,00,000:1		
6.	Static(Panel) Contrast Ratio	1,200:1		
7.	Refresh Rate	60Hz		
8.	HDR(10PRO/HLG)			
9.	Speaker (Sound Output)	10W + 10 W		
10.	Input Interface	HDMI IN(3(2.0)), Headphone Out (Phone Jack type),RS232(D-SUB9 pin/Phone Jack)(Phone Jack 4 Pin)		
11.	Jack Interface	USB 2.0,Digital Audio Out (Optical), External Speaker Out(3.5mm Phone Jack), RJ45(Usage Purpose) (LAN)		
12.	Power Supply (VoltageHz)	AC 120V-50/60 Hz		
13.	Typical Power Consumption	145 W		
14.	Safety Certification	CB,CU,TR		
15.	EMC	CE		
16.	Smart Features	Web Browser, Pre-Loaded App, Soft		

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		AP, Wi-Fi (802.11ac), Bluetooth, HDMI- ARC		
17.	Screen Share	Miracast, Smart Share		

4. Minimum Technical Specification of UPS

Qty.				
Make				
Model				
Sl. No.	Feature	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1.	Capacity	Capacity : 1KV		
2.	Input Voltage range	140Vac - 300Vac		
3.	Input Frequency	40-70Hz		
4.	Output on battery Voltage	220/230/240Vac±10%		
5.	Automatic Voltage Regulation (AVR)	Double Boost/Single Buck		
6.	On Battery Frequency	50/60Hz ± 1%		
7.	Outlets - Total	4		
8.	Battery Type	Sealed lead acid battery		
9.	Battery Quantity	2		
10.	Backup Time	15 mins		
11.	Audible Alarm	Alarm when on battery backup mode, Low battery, overload.		
12.	Operating Temperature	+ 32°F to 104° F / 0° C to 40° C		
13.	Operating Humidity	0% - 90% non-condensing		
14.	Operating Elevation	0-3000 meters		
15.	Storage Temperature	- 4°F to 122° F / -20° C to 50° C		
16.	Storage Relative Humidity	0% - 90%		
17.	Online Thermal Dissipation	45BTU/hr		
18.	Manufacturer Credentials	Manufacturer should be ISO 9001, ISO14001 & 18001, BIS Certified		
19.	Warranty	Three (3) years on-site comprehensive warranty including battery from OEM. OEM certificate should be submitted		

WEBEL TECHNOLOGY LIMITED

Section – O

TECHNICAL SPECIFICATION COMPLIANCE STATEMENT

FOR Zone – 3

1. Eligibility criteria for OEMs for Integrated VC System

Sl. No.	General Conditions	Compliance with Document / Undertaking
1	Complete camera, speakerphone, remote control and microphone should single OEM solution.	
2	System should, support USB Connectivity for Video conference	
3	The camera and speakerphone should have CB/UL, CE, FCC and RoHS certifications.	
4	The Systems Should have ISO 9001:2015	
5	The OEM Must have valid ISO 9001:2015, ISO 45001:2018, ISO 27001:2022 and ISO 14001:2015 Certified Company	
6	Make In India OEM	
7	OEM for the system should be listed in India for more than 15 years as on bid calling date.	
8	Service centre in each of the metro cities : Kolkata, Delhi, Mumbai, Bangalore, Chennai.	
9	OEM should be Make In India OEM & Turnover 100 cr last 3 Years	
10	The OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA	

SlNo	Feature	Specification	Compliance (Y/N)	Remarks
1		Complete camera, speakerphone, remote control and microphone should single OEM solution.		
		System should, support USB Connectivity for Video conference		
		System must have all required certification CE, FCC, ROHS & CB certification.		
		System should be Indian Standard: 9000 certified		
		OEM for the system should be ISO 9001:2008 certified.		

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		Minimum illumination : 0.5 lux		
		Preset : 255 or above		
3	Integrated Speakerphone	All necessary cables for all the components , power adaptors , regional plugs, quick start guide along with the mounting bracket should be supplied by the OEM.		
		Buttons:- Mute Mic, Mute Speaker, Vol Up/Down buttons. USB port for software Video- calling.		
		Audio Technology : Must support Echo cancellation, Noise reduction,		
		Must have full duplex performance for real time communication.		
		Frequency response : 100hz - 22 kHz		
		Noise reduction 18dB		
		92DB		
4	Integrated Microphones	Built in Accoustic Echo Cancellation		
		Four inbuilt omni-directional microphones supporting 20-foot or more diameter range		
		Frequency response : 100hz - 22 kHz		
		Noise reduction 18dB		
		System should be supplied with atleast 2 expansion microphones to increase coverage for large conference rooms.		
		Integrated microphone and supported expansion microphone should have mute/unmute button so that user sitting at any corner of conference room have provision to mute/unmute . with LED indication on each of microphone.		
5	Expansion Microphones	Noise reduction 18dB		
		Type : Omni-directional		
		Should support noise canceling individually.		
		Frequency response : 100hz - 22 kHz		
	Cable Management and ambience	LED color indicator : Green -active call ; Red -microphone Mute.		

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6		System should support cable manager for connection of all components in system so that the USB cable (for camera & speakerphone) with 3mts of minimum length is connected to end device(laptop /Mac / Codec/ desktop or thin client)		
7	Remote Control	All necessary cables for all the components , power adaptors , regional plugs, quick startguide along with the mounting bracket should be supplied by the OEM. Type: Infrared with removable / replaceable batteries. System should be supplied with all-in-one remote control to manage Camera (Pan,Tilt,Zoom, Preset) Speakerphone Volume control through Bottom (mute /unmute)		
8	Operating Temperature	Camera should operate from -10 to 40degree		

2. Minimum Technical Specification of 4K LED Interactive Touch Panel

Qty.				
Make				
Model				
Sl. No.	Component	Minimum Specification	Specification (Quoted / Applicable - by the bidder)	Complied (Yes / No)
1.	Display Panel Diagonal size	65 Inches or higher		
2.	Resolution	3840 x 2160 (4K or Higher)		
3.	Display Colour	1.07 Billion or Higher		
4.	Brightness	≥400 cd/m ² or better		
5.	Viewing Angle	±178 ° or better viewing angle		
6.	Contrast ratio	1200:1		
7.	Dynamic Contrast Ratio	30000:1		
8.	Response Time	Not more than 8 ms		
9.	Lifetime	50,000 hours or more		
10.	Speakers	2 x 18 Watts or Higher		
11.	Deployment of Touch Technology	Advanced Infrared		
12.	Thickness of the touch glass	4mm Toughened Glass with 9H Toughness or better		
13.	Surface technology	Anti-Glare		
14.	Touch accuracy	1mm or better		

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15.	Touch Points in Windows	Must have a touch capability of minimum 20 points		
16.	Front Interface	HDMI in*1, USB touch*1,USB3.0*2		
17.	Inputs	HDMI in*2,VGA*1, VGA audio in*1,USB2.0*1,Public USB3.0*1, USB touch*1, LAN in*1		
18.	Outputs	SPDIF out*1,Audio Out		
19.	Other	RS232*1		
20.	CPU	Quad-core * A55 1.5GHz or better		
21.	GPU	G52 2EE MC1@550MHz or better		
22.	Android version	Android 11.0 or Higher (With Play store)		
23.	Built-in Software:	Whiteboard, File manager, Screen mirroring, Chrome, googleplaystore, Youtube, WPS, Welcome Page, Settings, Calculator, User Manual, Float tool, Side tool bar, Note, Vote, Screen recording.,Wireless Content sharing, text recognition.		
24.	Inbuilt WiFi	Dual WIFI (5G & 2.4G), Dual Hotspot (5G & 2.4G) or better		
25.	Bluetooth	BT5.0 or better		
26.	RAM	4 GB or Higher		
27.	ROM	32 GB or Higher		
28.	Certification	BIS (Indian), CE, FCC & ROHS certification. ISO 9001:2015,ISO 45001:2018, ISO 27001:2013 and ISO 14001:2015 Certified Company. (Related certificate copy required)		
29.	Warranty	3 Years or Higher.		

3. Minimum Technical Specification of Specification for 55" Display

Qty.				
Make				
Model				
Sl. No.	Feature	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1.	Display Size(Diagonal)	55"		
2.	Resolution	3840x2160		
3.	Backlight Unit Type	Direct / Edge		
4.	Brightness	300 nits or above		
5.	Dynamic Contrast	10,00,000:1		

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	Ratio(Dynamic MCI(Hz))			
6.	Static(Panel) Contrast Ratio	1,200:1		
7.	Refresh Rate	60Hz		
8.	HDR(10PRO/HLG)			
9.	Speaker (Sound Output)	10W + 10 W		
10.	Input Interface	HDMI IN(3(2.0)), Headphone Out (Phone Jack type),RS232(D-SUB9 pin/Phone Jack)(Phone Jack 4 Pin)		
11.	Jack Interface	USB 2.0,Digital Audio Out (Optical), External Speaker Out(3.5mm Phone Jack), RJ45(Usage Purpose) (LAN)		
12.	Power Supply (VoltageHz)	AC 120V-50/60 Hz		
13.	Typical Power Consumption	145 W		
14.	Safety Certification	CB,CU,TR		
15.	EMC	CE		
16.	Smart Features	Web Browser, Pre-Loaded App, Soft AP, Wi-Fi (802.11ac), Bluetooth, HDMI- ARC		
17.	Screen Share	Miracast, Smart Share		

4. Minimum Technical Specification of UPS

Qty.				
Make				
Model				
Sl. No.	Feature	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1.	Capacity	Capacity : 1KV		
2.	Input Voltage range	140Vac - 300Vac		
3.	Input Frequency	40-70Hz		
4.	Output on battery Voltage	220/230/240Vac±10%		
5.	Automatic Voltage Regulation (AVR)	Double Boost/Single Buck		
6.	On Battery Frequency	50/60Hz ± 1%		
7.	Outlets - Total	4		
8.	Battery Type	Sealed lead acid battery		
9.	Battery Quantity	2		
10.	Backup Time	15 mins		
11.	Audible Alarm	Alarm when on battery backup mode, Low battery, overload.		
12.	Operating Temperature	+ 32°F to 104° F / 0° C to 40° C		

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13.	Operating Humidity	0% - 90% non-condensing		
14.	Operating Elevation	0-3000 meters		
15.	Storage Temperature	- 4°F to 122° F / -20° C to 50° C		
16.	Storage Relative Humidity	0% - 90%		
17.	Online Thermal Dissipation	45BTU/hr		
18.	Manufacturer Credentials	Manufacturer should be ISO 9001, ISO14001 & 18001, BIS Certified		
19.	Warranty	Three (3) years on-site comprehensive warranty including battery from OEM. OEM certificate should be submitted		