

TENDER DOCUMENT for RENOVATION / RESTORATION OF NDDB OFFICE AT SAFDARJUNG ENCLAVE, NEW DELHI

TENDER

FOR

AUDIO VIDEO WORK

NDS/ADMIN/HO/IAUDIO-VIDEO-WORK/2024-25/FEB/01

Issued By:

NDS SAFDARJUNG NEW DLEHI

National Dairy SERVICES

NDDB HOUSE OPP KAMAL CINEMA SAFDARJUNG ENCLAVE DELHI 110029 Phone Nos. 01149883000, 49883088

National Dairy services (NDS) invites "Online E-Tender" from reputed eligible bidders

for the following works:

Work	Bid Ref Number	EMD	Last date of
			Submission
Supply of	NDS/ADMIN/HO/IAUDIO-VIDEO-WORK/2024-	Rs 40000	9 March
AUDIO	25/FEB/01		2025
VIDEO Items	, ,		
	NCDFI Bid Ref Number: 118		

Earnest Money Deposit (EMD)

All bids must be accompanied by EMD and the same should be in the form of Demand Draft or NEFT/RTGS.

The EMD, shall be in the form of NEFT/RTGS at:

- Beneficiary Name: National Co-operative Dairy Federation of India Ltd.
- Bank Name: Union Bank
- Branch Address: Anand Branch (Amul Dairy Road), Anand: 388001
- Account Number: 520141000774940, IFSC Code: UBIN0905208

As the bidding is processed through the NCDFI Portal, transaction fees and TDS will be adjusted from the deposited EMD amount:

Transaction Fee: 0.40% of the contract value (+ applicable GST) for successful bidder

TDS u/s 194/0: 0.10% of the contract value.

Any adjustments in transaction fees and TDS based on the final contract value must be paid promptly to the same NCDFI account:

Important instructions for E-procurement (NDDB)

- a) The bid document will be available in the website at www.nddbdairyservices.com, & https://www.ncdfiemarket.com/index.php/auctions-2/ and can be downloaded and used as tender document for uploading the offer.
- b) The interested vendors are required to send an email at etenders@ncdfiemarket.com by providing the following detail/information prior to 2 days before the bid end date:
 - ➤ Name of the organization:
 - Name of the contact person:
 - Contact No:
 - ➤ E-Mail:
 - Status of Registration with NCDFI (Yes/No):

Registration/bidding guidance will be provided by NCDFI team to interested bidders

c) It is hereby brought to the notice of all bidders that if any change/ additions/ deletions/ alterations are found to be made by them in the tender and the same is subsequently noticed at any stage, even after award of the contract, the bidders are liable for all consequences thereof and NDS shall be free to take suitable action as deemed necessary

For further details or for downloading the bid documents, please visit web site www.nddbdairyservices.com https://ncdfiemarket.com/

http://www.nddbdairyservices.com; or contact Purchase, NDS, New Delhi (Email: samar.rehman@nddbdairyservices.com

<u>amol.jadhav@nddbdairyservices.com</u> on any working day. The intending bidders are required to submit their offer electronically through e-tendering portal. No physical tender is acceptable by NDDB DS.

General Terms & Conditions

1. Single Quotation:

- Each bidder shall submit only one quotation.
- Bidders must not contact other bidders regarding this RFQ.

2. Eligibility Criteria:

- The bidder, in the same name & style, should be in business for at least three years at the time of bid opening. In case of a name change due to merger/acquisition/status change, eligibility will be considered based on documentary evidence.
- The bidder must have valid registration under applicable Acts, including but not limited to:
 - Income Tax
 - Companies Act
 - Goods & Service Tax (GST)
 - o Building and Other Construction Workers' Welfare Cess Act
 - o Employee State Insurance
 - o Contract Labour
 - o Provident Fund
- The bidder's financial turnover in the same name & style for each of the last three financial years should be at least 60% of the estimated cost.
- The bidder should have a positive net worth for at least the last two financial years.
- The bidder should have a positive cash flow in at least one financial year out of the last three.
- The bidder should have successfully executed/completed contracts of a similar nature within the last five years, meeting at least one of the following criteria:
 - One contract/work of similar nature costing at least 80% of the estimated cost.
 - Two contracts/works of similar nature each costing at least 50% of the estimated cost.
 - Three contracts/works of similar nature each costing at least 40% of the estimated cost.

3. Validity of Quotation:

• The quotation must remain valid for at least 60 days from the submission deadline.

4. Evaluation Criteria:

- The bidding process follows a two-step evaluation system:
 - 1. **Technical Bid Evaluation** Ensures compliance with required specifications and criteria.
 - 2. **Financial Bid Evaluation** Only for technically qualified bidders.
- The Purchase Committee will evaluate quotations based on:

- o Compliance with terms, conditions, and specifications & Eligibility Criteria
- o Inclusion of GST, packing, forwarding, freight, and insurance charges.
- Evaluation will be on an overall basis.
- The decision of NDDB DS will be final and binding.

5. Award of Contract:

- The contract will be awarded to the bidder offering the lowest price while meeting technical requirements.
- NDDB DS reserves the right to accept or reject any quotation or cancel the bidding process without prior notice.
- The successful bidder will be notified before the expiration of the quotation validity period.

6. Terms of Payment:

• Payment will be made within 30 days after the successful rollout of the setup.

7. Inspection and Testing:

• NDDB DS or its appointed agency may conduct stage-wise and pre-dispatch inspections to ensure compliance with technical specifications.

8. Supplier Performance and Delays:

- The supplier must adhere to the delivery schedule specified in the Purchase Order.
- Any delay must be communicated in writing, including the cause and expected duration.
- NDDB DS may extend the delivery timeline at its discretion, with or without penalties, through an amendment to the Purchase Order.

9. Liquidated Damages:

- A penalty of 0.5% of the delayed goods' price per week will be levied, up to a maximum of 10% of the total order value.
- Beyond this limit, NDDB DS may terminate the contract.

10. Taxes and Duties:

• The supplier will bear all applicable taxes and duties until the goods are delivered.

Price Schedule

S.No	Description	Base Price	GST	Total Price
1	GROUP - 1 General Guest Area TOTAL (INR)			
2	GROUP - 2 Meeting Rooms & Conference Rooms TOTAL (INR)			
	GROUP - 3 Dept. Head / P.Head / MD / Chairman Cabins			
3	TOTAL (INR)			
4	GROUP - 4 Cafeteria / Lunch Room TOTAL (INR)			
5	TOTAL for AV ROOM SCHEDULER SOLUTION			
	AV PROJECT COST ESTIMATTE	-	-	

		,	AUDIO VI	SUAL BOQ FOR MEETIN	G ROOMS					
S. No.	Part Code	Description	UOM	GF - Reception & Wa	iting	FF - Chainman Office - Waiting Area		Total Qty	Unit Rate (INR)	TOTAL (INR)
GROUP-1	General Guest Area						 			
1	AllSee / Paanasonic / LG / Samsung	50" FHD Commercial Grade Smart Display	Nos.	1				1		
2	Kramer / Belden / Kordz / Klotz / Canare	CAT6 FTP / STP Cable (305Mtrs)	Roll	1				1		
3	Kramer / Belden / Kordz / Klotz / Canare	CAT6 Shielded Connector (RJ45)	Nos.	4				4		
4	Kramer / Belden / Kordz / Klotz / Canare	RG6 Co-Axial Cable (305 Mtrs)	Roll	1				1		
5	Kramer / Belden / Kordz / Klotz / Canare	RG6 Connector	Nos.	4						
6	Tata Play	DTH Set-Top Box	Nos.	1		1		2	Client	Scone
7	Services	Laying & Termination of CAT6 FTP / STP Cable	Per Mtr			As Rec	•			
8	Services	Laying & Termination of RG6 Co-Axial Cable	Per Mtr	A/R			As Required As Required			
9	Services	Intsallation Testing, Commissioning	Nos.		1	1		1		
GROUP -	1 General Guest Are									-

				3F, 4F - Meeting	Basement -	3F- Meeting	2F - Meeting	1F - Board	1F - Conferenc			
S. No.	Part Code	Description	UOM	Room (04)	Room (06)	Room (08)	Room (10)	Room (15)	e Hall (45)	Total Qty	Unit Rate (INR)	TOTAL (INR)
No. of Ro	oms			2	1	1	1	1	1			
GROUP-2	Meeting Rooms & C	Conference Rooms										
1	AllSee / Paanasonic / LG / Samsung	42" FHD Commercial Grade Smart Display	Nos.	2	Existing 65" LG	Existing TCL 65"	Existing MaxHub 75"				2	
2	AllSee / Panasonic / LG / Samsung	85-86" Interactive Touch 4K Display Panel with OPS & inbuilt Windows / Android OS	Nos.					1		1		
3	AllSee / Panasonic / LG / Samsung	85-86" Interactive Touch 4K Display Panel with OPS & inbuilt Windows OS	Nos.						1	. 1		
4	AllSee / Paanasonic / LG / Samsung	65" FHD Commercial Grade Smart Display	Nos.						2			
5	AllSee / Paanasonic / LG / Samsung	14" FHD Monitor, HDMI Input Display with Foldable Mount embedded into Table cut-out	Nos.						1	. 1		
6	AMX / Practico	Table Top Groumet - 4 Way	Nos.	2	1					3	3	
7	Kramer / Extron / Magnum	Retractable Cable Cubby with 2 x Power Sockets, 1 x USB Charger, 1 x USB Data, 1 x HDMI, 4 x Pass Through holes for CAT6 Cables.	Nos.			1	1	1	Existing Table Points will be used	3	.	
8	Barco Clickshare CX-50 / Kramer / ZeeVee	Wireless Video Conferencing & Presentation Device - 2 Channel Receiver with One Transmitter Button	Set				1	1	1	3		
9a	AMX / Yamaha CS- 800/ Nureva	Compact Video Conference Bar Camera, with inbuilt Mic	Nos.	2	Existing 12x Konftel	Existing 12x Konftel		Existing 12x Konftel			2	
9b	Avaya CU-360/ Telycam TLC-300- IP-12-4K/ Nureva	4kp30 Video Conference Camera, 102 Deg or more HFOV	Nos.		Existing 12x Konftel	Existing 12x Konftel	1	Existing 12x Konftel		1		
10	Nureva HDL310 - Bundle	HDL310 - Audio Conferencing System - Black + NUR-SPOF-1Y - One year warranty and One Year Support-Off Site. 2 - 20W 3.25" high-fidelity full range, 91 dB-SPL @ 1 m + 8192 Virtual Microphones	Nos.					1		1		
11	TelyCam/Sony / Vaddio / Yamaha	4k UHD Video Conference Camera, 20X Optical Zoom, AI Enabled	Nos.						1	. 1		
12	Kramer / Belden / Kordz / Klotz / Canare	HDMI Cable, USB Cable, Connectors & other Accessories	Lot	2	1	1	1	1	1	-	,	
13	Services	Removal & Re-installtion of Conference Room Equipments	Lot						1	1		
14	Services	Intsallation Testing, Commissioning	Nos.	2	1	1	1	1	1		1	
GROUP -	2 Meeting Rooms &	Conference Rooms TOTAL (INR)										-

S. No.	Part Code	Description	UOM	Practice Head - Cabin	1F - Managing Director Office	2F - Executive Director (04)	2F - Execurtiv e Director Cabin	2F - Managing Director Cabin	1F - Chairman Office	1F - Chairman Office Waiting Area	Total Qty	Unit Rate (INR)	TOTAL (INR)
		l d / MD / Chairman Cabins	l										1
1	AllSee / Paanasonic / LG / Samsung	42" FHD Commercial Grade Smart Display	Nos.	6		4	Existing 55" LG				10		
2	Chief / Equivalent	Display mount ceiling / wall for size 42' - 46"	Nos.	13		4	33 10	1			18		+
3	AllSee / Panasonic / LG / Samsung	65" FHD Interactive Touch Display Panel with OPS & In-built Windows OS	Nos.	15		7		1			1		
4	AllSee / Panasonic / LG / Samsung	55" FHD Display Panel	Nos.						1	Existing 55" Panasonic	1		
5	AMX / Practico	Table Top Groumet - 4 Way	Nos.	13	1	4	2	1		1	22		
6	AMX / Yamaha CS- 800/ Nureva	Compact Video Conference Bar Camera, with in- built Mic	Nos.			4		1			5		
7	Nureva HDL200 - Bundle	HDL200 - Audio Conferencing System - Black + NUR-SPOF-1Y - One year warranty and One Year Support-Off Site. 2 - 20W 3.25" high-fidelity full range, 91 dB-SPL @ 1 m + 4096 Virtual Microphones, KONFTEL VC Camera shall be Client Provided.	Nos.						1		1		
8	Kramer / Belden / Kordz / Klotz / Canare	HDMI Cable, USB Cable, Connectors & other Accessories	Lot	13	1	4	4	1	1		24		
9	Kramer / Belden / Kordz / Klotz / Canare	CAT6 FTP / STP Cable (305Mtrs)	Roll				2				2		
10	Kramer / Belden / Kordz / Klotz / Canare	CAT6 Shielded Connector (RJ45)	Nos.	52	4	16	16	4	4		96		
11	Kramer / Belden / Kordz / Klotz / Canare	RG6 Co-Axial Cable (305 Mtrs)	Roll				1				1		
12	Kramer / Belden / Kordz / Klotz / Canare	RG6 Connector	Nos.					2	2	2	4	_	
13	Tata Play	DTH Set-Top Box	Nos. 1 1 1				3						
14	Services	Laying & Termination of CAT6 FTP / STP Cable		Per Mtr A/R					0				
15 16	Services Services	Laying & Termination of RG6 Co-Axial Cable	Per Mtr	13	1	4	A/R 2	1	1	1	23		
		Intsallation Testing, Commissioning ad / MD / Chairman Cabins TOTAL (INR)	Nos.	15		4			1	1	23		

S. No.	Part Code Cafeteria / Lunch Ro	Description	иом	Cafeteria / Lunch Room						Total Qty	Unit Rate (INR)	TOTAL (INR)
GROOF-4	Caleteria / Luncii Ko	John	T	Endation -	1	1	1			I	1	
1		Existing Display will be Used		Existing Display will be Used								
	Kramer / Belden /											
	Kordz / Klotz /	CAT6 FTP / STP Cable, RG6 Co-Axial Cable, RJ45									Included from	other Group
2	Canare	CAT6 Shielded Connectors, RG6 Connectors etc	Lot	1						1	Mate	erial
3	Services	Intsallation Testing, Commissioning	Nos.	1						1		0
GROUP -	4 Cafeteria / Lunch F	Room TOTAL (INR)	•	•			•	•	•		•	-
GRAND T	OTAL FOR ALL GROU	JPS										-
GST Extra	ı @ 18%											0
GRAND T	OTAL for AV - ALL RO	OOMs									TOTAL	-

ROOM SCHEDULER AV SOLUTION FOR 7 MEETING ROOMS		

S.No.	ltem	Part Code	UOM	Meeting Room - Qty,	Total Qty.	Base Unit Cost Price	Total Cost Price
No. of	Rooms			7			
1	Room Scheduler Display, 7", 1280 x 800 resolution, 350 nits	Crestron / Logitech / Biamp	Nos.	1	7		
2	Per Room Yearly Subscrription for Cloud based Web- Booking Software / Mobile Booking App	Crestron / Logitech / Biamp	Nos.	1	7		
3	Per Room Yearly Licence for Calender Integration with Office 365 / Google Workspace - By Client	Microsoft / Google	Nos.	1	7		
4	24 Port Ethernet PoE Switch, Layer2	Dlink / Netgear	Nos.	1	1		
5	24 Port CAT6A UTP Patch Panel, fully loaded	Commscope / 3C3 / Siemon	Nos.	1	1		
6	CAT6A 4 Pair UTP LAN Cable	Commscope / 3C3 / Siemon	Roll (305 Mtr.)	4	4		
7	RJ45 CAT6A Male Connector, Field Crimped	Commscope / 3C3 / Siemon	Nos.	1	7		
8	CAT6A Patch Cord - 1 Mtr.	Commscope / 3C3 / Siemon	Nos.	1	7		
9	AV Network Rack	NA	Nos.	1	1	Existiing Network Rack Space shall be used	Existiing Network Rack Space shall be used
10	Cable Ties, Velcro, Misc, etc. & other accessories as required for complete installation of the System	NA	Lot	1	1	0	0
11	Installation, Termination, Configuration, Testing, Commissioning & Handover	Services	Lot	1	1	0	0
TOTAL	for AV ROOM SCHEDULER SOLUTION					TOTAL	-
GST Ex	tra @ 18%						0
GRANE	TOTAL for AV ROOM SCHEDULER SOLUTION					TOTAL	-

AV SYSTEM TECHNICAL SPECIFICATION

	Compliance (Yes/No)	Datasheet Page Ref.	
Display Size	50 - Inch Diagonal		
Resolution (W x H)	FHD (1920 x 1080)		
Aspect Ratio	16:09		
Brightness (Typical)	350 nits or more		
Static Contrast Ratio (Typical)	1200:1 or more		
Display Type	Smart		
In-Built Internet Apps & Web Brower	Yes		
Wireless LAN Built-In	Yes		
Bluetooth Feature	Yes		
Mirroring Feature	Yes		
Interface Ports	HDMI, USB, RJ45, RS232, Audio Out		
Built-in Speakers	Yes		
Operating Hours (Hours/Day)	16 x 7		
Safety & EMC Standard Compliance	Yes		
Mounting Brackets	Included		
OEM Warranty	3 Years		

	CAT6 FTP / STP Cable		
	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Cable Type	CAT6A - U/FTP or S/FTP		
Cable Construction	23 AWG Solid Bare Copper		
Conductor Materials	Annealed Copper		
Jacket Material	Low Smoke Zero Halogen (LSZH)		
Standards Compliance	Electrical - ISO/IEC 11801, Fire Performance - IEC-60332-1		
OEM Warranty	OEM Standard Warranty		

	CAT6 Shielded Connector (RJ45)		
	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Connector Type	Crimp Style Shielded RJ45 Connector		
Comatibility	Suitable for 23 AWG Shielded CAT6A Cable		
Mechanical dimensions compliance	IEC 60606-7		
Housing material	UL 94V-2		
OEM Warranty	OEM Standard Warranty		

	RG6 Co-Axial Cable						
Specifications		Compliance (Yes/No)					
Center Conductor Material	18 AWG Solid Bare Copper						
Insulation Material	PE Foam / Skin Foam						
Outer Shield Material	Aluminum with minimum 60% Coverage						
Outer Jacket Material	PVC						
Nominal Impedance (20°C)	75Ω						
Nominal Capacitance (20°C)	53 pF/m						
Standards Complaince	UL:CL2 / CM, CSA:FT4 / UL1685						
OEM Warranty	OEM Standard Warranty						

RG6 Connector			
	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Compatibility	Suitable for RG6 18 AWG Coaxial Cable		
OEM Warranty	OEM Standard Warranty		

DTH Set-Top Box			
	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Settop Box Supported Resolution	FHD (1920 x 1080)		
Interface Ports	HDMI		
All required accessories (Brackets, etc.) shall be included as per the space requirement to make the system complete.			
OEM Warranty	OEM Standard Warranty		

Specifications Compliance			Datasheet Page Ref.
Display Size	42 - Inch Diagonal	(Yes/No)	Page Rei.
Resolution (W x H)	FHD (1920 x 1080)		
Aspect Ratio	16:09		
Brightness (Typical)	350 nits or more		
Static Contrast Ratio (Typical)	1200:1 or more		
Display Type	Smart		
n-Built Internet Apps & Web Brower	Yes		
Wireless LAN Built-In	Yes		
Bluetooth Feature	Yes		
Mirroring Feature	Yes		
nterface Ports	HDMI, USB, RJ45, RS232, Audio Out		
Built-in Speakers	Yes		
Operating Hours (Hours/Day)	16 x 7		
Safety & EMC Standard Compliance	Yes		
Mounting Brackets	Included		
OEM Warranty	3 Years		

	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Display Size	85-86" Diagonal		
Resolution (W x H)	UHD (3840 x 2160)		
Aspect Ratio	16:09		
Brightness (Typical)	350 nits or more		
Static Contrast Ratio (Typical)	1200:1 or more		
Built-in Web OS	Windows / Andriod		
Wireless LAN Built-In	Yes		
Bluetooth Feature	Yes	İ	
OPS Slot	Yes		
OPS Power Built-in	Yes	İ	
	OPS Processor: i5 Processor or better,		
	RAM: 16GB or Higher,		
OPS Specifications	Storage: 500 GB or Higher,		
	Android Version: 11 or better		
	Form Factor : Mini PC, should take power from IFPD itself		
Touch - Protection Glass Thickness	4T (Anti-Glare)		
Touch Operating System Support	Windows / Andriod / Mac		
Interface Ports	Input: HDMI, USB, RJ45, RS232		
	Output: Audio Out, Optical Touch USB		
Built-in Speakers	Yes		
Operating Hours (Hours/Day)	16 x 7		•
Safety & EMC Standard Compliance	Yes		•
Mounting Brackets	Included		
DEM Warranty	3 Years		

Specifications		Compliance (Yes/No)	Datasheet Page Ref.
Display Size	85-86" Diagonal		
Resolution (W x H)	UHD (3840 x 2160)		
Aspect Ratio	16:09		
Brightness (Typical)	350 nits or more		
Static Contrast Ratio (Typical)	1200:1 or more		
Built-in Web OS	Windows		
Wireless LAN Built-In	Yes		
Bluetooth Feature	Yes		
OPS Slot	Yes		
OPS Power Built-in	Yes		
	OPS Processor: i5 Processor or better,		
OPS Specifications	RAM: 16GB or Higher,		
OPS Specifications	Storage: 500 GB or Higher,		
	Form Factor : Mini PC, should take power from IFPD itself		
Touch - Protection Glass Thickness	4T (Anti-Glare)		
Touch Operating System Support	Windows		
Interface Ports	Input: HDMI, USB, RJ45, RS232		
interface Ports	Output: Audio Out, Optical Touch USB		
Built-in Speakers	Yes		
Operating Hours (Hours/Day)	16 x 7		
Safety & EMC Standard Compliance	Yes		
Mounting Brackets	Included		
OEM Warranty	3 Years		

65" FHD Commercial Grade Smart Display			
Specifications		Compliance (Yes/No)	Datasheet Page Ref.
Display Size	65 - Inch Diagonal		
Resolution (W x H)	FHD (1920 x 1080)		
Aspect Ratio	16:09		
Brightness (Typical)	350 nits or more		
Static Contrast Ratio (Typical)	1200:1 or more		
Display Type	Smart		
In-Built Internet Apps & Web Brower	Yes		
Wireless LAN Built-In	Yes		
Bluetooth Feature	Yes		
Mirroring Feature	Yes		
Interface Ports	HDMI, USB, RJ45, RS232, Audio Out		
Built-in Speakers	Yes		
Operating Hours (Hours/Day)	16 x 7		
Safety & EMC Standard Compliance	Yes		
Mounting Brackets	Included		
OEM Warranty	3 Years		

S	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Display Size	14-inch Diagonal		
Resolution (W x H)	FHD (1920 x 1080)		
Aspect Ratio	16:09		
Brightness (Typical)	250 nits or more		
Static Contrast Ratio (Typical)	1200:1 or more		
Wireless LAN Built-In	Yes		
Interface Ports	Input: HDMI, USB Output: Headphone Out (Audio)		
Safety & EMC Standard Compliance	Yes		
Motorised Foldable Mount (To be embedded into Table Cut-Out)	Included		
OEM Warranty	3 Years		

Table Top Groumet - 4 Way			
	Specifications	Compliance (Yes/No)	Datashe Page R
Table Cutout Dimension	2" round hole		
Max above mounting surface	1-inch		
Enclosure	Plastic structure with a top cap made of plastic or metal with an arclic inlay		
OEM Warranty	3 Years		

Specifications Compliance (Yes/No)		Datasheet Page Ref.	
Туре	Modular Retrabtable Tabletop Cable Cubby with backlit symbol icon		
Interface	2 x 6A Universal Power Sockets, 1 x USB-A, 1 x USB for Charging, 1 x USB-C for Data 1 x HDMI 2.0, 1 x RJ45, 4 x Pass Through holes for CAT6A Cables,		
Built-in Retractable Module	Push to retract mechanical system for 1 x HDMI, 1 x USB-C and 1 x RJ45		
Certification	CE/UL		
OEM Warranty	3 Years		

	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Supported OS	Windows, Andriod, iOS		
Video Outputs	4K UHD (3840 x 2160) @ 60Hz. HDMI 1.4b 4K UHD (3840 x 2160) @ 60Hz.USB-C		
Wireless Frequency Band	2.4 GHz and 5 GHz		
Video Inputs	4k UHD (3840 x 2160) @30Hz.USB-C		
Connections	Front side: 1x USB-C 3.1 Rear side: 1x USB-C 3.1, 2x USB -A 3.1, 1x Ethernet LAN		
Native Protocols	Airplay, Google Cast, Miracast		
Max no. of Simultaneous Connections	32		
Wireless conferencing	via App or Button		
Safety & EMC Standard Compliance	Yes		
OEM Warranty	3 Years		

	Compact Video Conference Bar Camera, with in-built Mic		
Specifications Compliance (Yes/No)		Datasheet Page Ref.	
Supported OS	Windows macOS, Chrome OS		
	USB (Type-C): USB 2.0/3.2 Gen 1, UAC 2.0, UVC 1.1,		
	DisplayLink, HDMI: Version 1.4, Resolution: 720 x 480, 1,280		
Interface	x 720, 1,366 x 768, 1,920 x 1,080, Frame rate: 30 fps, HDCP:		
	Version 1.4, HDMI-CEC: Power control / Input selection,		
	Bluetooth, Wi-Fi network		
Speakers	Full-range speaker x 1		
Microphones	Hexa-microphone (6x MEMS)		
	Frontward 110 degrees audio pickup, Max distance: 6.0 m		
Microphone Coverage	(19.6 ft, Face focus beamforming off) / 3.0 m (9.8 ft, Face		
	focus beamforming on)		
Field of View	(4K) Diagonal:120 degrees, Horizontal: 110 degrees		
Frame Rate	6 fps, 7.5 fps, 10 fps, 15 fps, 30 fps		
Resolution	3,840 x 2,160		
Mounting Bracket	Included		

OEM Warranty	3 Years	
All required accessories shall be included as per the space requirement to make the system completed		

	Specifications	Compliance (Yes/No)	Datasheet Page Ref
Camera	1/2.8 inch, 9MP UHD CMOS sensor, 12X optical zoom		
Video Resolution	3840 x 2160 @ 60 Hz		
Horizontal Field of View	80 Degree or more		
Minimum lux	12X: 0.5Lux		
Features	Image Flip: Supported Mirroring: Supported Focus: Auto/Manual Iris: Auto/Manual4		
Network Port Speed	1G		
Interface	Control Port: RS232(RS485), NDI Video Port: NDI, HDMI 2.0, 3G-SDI, USB Type-C Audio Port: stereo 3.5mm linear inputs POE+: Supported		
Mounting Brackets	Included		
OEM Warranty	3 Years		

d Microphone and Speaker Bar I Microphone Mist technology processing platform us autocalibration hased gain control echo cancellation	Compliance (Yes/No)	Datasheet Page Ref.
Microphone Mist technology processing platform us autocalibration wased gain control		
us autocalibration pased gain control		
ound masking olay — no software or drivers required udio source for video playback		
nse ommurectional ivicivis		
M warranty		
	udio source for video playback "aluminum cone ise omnidirectional MEMS	udio source for video playback "aluminum cone ise omnidirectional MEMS M warranty

	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Camera Type	USB Camera		
Optical Zoom	20X		
Resolution	UHD (3840 x 2160)		
Video Output Interface	USB -C		
PTZ	Yes		
Auto Framing	Yes		
Preset	Minimum 16		
Features	Al Enabled		
Mounting Brackets	Included		
OEM Warranty	3 Years		

	HDMI Cable, USB Cable, Connectors & other Accessories		
	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
HDMI Cable	High Speed HDMI Patch Cord, Max Resolution - 4K@60Hz, 24K Gold Plated Connector,		
USB Cable	High Speed USB Patch Cord		
OEM Warranty	OEM Standard Warranty		

	•		
	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Compatibility	With the supplied Display model of 42" - 46"		
Orientation	Portrait / Landscape		
Tilt	+5°/-15°		
OEM Warranty	OEM Standard Warranty		

	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Display Size	55" Diagonal		
Resolution (W x H)	FHD (1920 x 1080)		
Aspect Ratio	16:09		
Brightness (Typical)	350 nits or more		
Static Contrast Ratio (Typical)	1200:1 or more		
Built-in Web OS	Windows / Andriod		
Wireless LAN Built-In	Yes		
Bluetooth Feature	Yes		
OPS Slot	Yes		
OPS Power Built-in	Yes		
Touch - Protection Glass Thickness	4T (Anti-Glare)		
Touch Operating System Support	Windows / Andriod / Mac		
Interface Ports	Input: HDMI, USB, RJ45, RS232 Output: Audio Out, Optical Touch USB		
Built-in Speakers	Yes		
Operating Hours (Hours/Day)	16 x 7		
Safety & EMC Standard Compliance	Yes		
Mounting Brackets	Included		
OEM Warranty	3 Years		

	Specifications	Compliance (Yes/No)	Datashee Page Ref
Display Size	55" Diagonal		
Resolution (W x H)	FHD (1920 x 1080)		
Aspect Ratio	16:09		
Brightness (Typical)	350 nits or more		
Static Contrast Ratio (Typical)	1200:1 or more		
Wireless LAN Built-In	Yes		
Interface Ports	Input: HDMI, USB, RJ45, RS232		
	Output: Audio Out		
Built-in Speakers	Yes		
Operating Hours (Hours/Day)	16 x 7		
Safety & EMC Standard Compliance	Yes		
Mounting Brackets	Included		
OEM Warranty	3 Years		

es & Speakers Yes 1x HDMI IOS dard Compliance Yes Included 3 Years		Specifications	Compliance (Yes/No)	Datashee Page Ref
View 102 Degree or more es & Speakers Yes 1x HDMI iOS dard Compliance Yes Included 3 Years	Camera Sensor	4kp30		
es & Speakers Yes 1x HDMI IOS dard Compliance Yes Included 3 Years	Video Resolution	1080p30		
1x HDMI iOS dard Compliance Yes Included 3 Years	Horizontal Field of View	102 Degree or more		
iOS dard Compliance Yes Included 3 Years	Built-in Microphones & Speakers	Yes		
dard Compliance Yes Included 3 Years	Video Output	1x HDMI		
Included 3 Years	OS Support	iOS		
3 Years	Safety & EMC Standard Compliance	Yes		
	Mounting Brackets	Included		
axios chall he included as pay the space requirement to make the system complete	OEM Warranty	3 Years		
ones shall be included as per the space requirement to make the system complete.	OEM Warranty		ete.	

AV ROOM SCHEDULER SYSTEM TECHNICAL SPECIFICATION

24 Port Ethernet PoE Switch Layer 2		
Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Switch type - Layer 2 Ethernet (PoE) Access Switch		
Switch shall be supplied with 24 x 10/1000 Mbps Ethernet PoE Ports		
Switch shall be supplied with 2 x 10G Fiber Stakable SFP Slots		
Switch shall be supplied with 1 x RJ45 Serial Console Port		
Form Factor - 1 RU Rack Mount		
All the Ethernet Ports shall be populated & activated from Day 1		
SFP Slots shall be populated & activated with 2 nos. x 10G SFP modules from Day 1		
PoE Power Budget - 370 Watt or more		
Switch shall includes IoS, IP Base, India 220V AC Type A Power Supply with power cable		
Switch shall be supplied with All type of Licences to Activate all the available features of Layer 2 and these shall be activated from Day 1.		
Switch shall be supplied with All type of Licences to Activate all the available features including but not limited to		
Management & Configuration, Security & Visibility, UTM, High Availability, QOS, Management, etc. and these shall be		
activated from Day 1		
Switch shall be supplied with latest published software & firmware.		
End of Sale announced product shall not be supplied.		
Switch shall be supplied with 3 Year OEM Warranty.		
Switch shall be supplied with 24x7x365 TAC Support by OEM.		
Switch shall be supplied with Onsite RMA Service Level of 8x5xNBD by OEM.		
All required accessories shall be included as per the space requirement to make the system complete.	·	

24 Port CAT6A Patch Panel			
	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Туре	UTP Patch Panel		
Port Count	24 Port		
Panel stype	Flat		
U Height	10		
Port Count	24 Port		
Included Outlets	24 x UTP CAT6A Panel Outlets		
Wire Manager	Detached Wire Manager Included		
Plastic Materials	Flame Retardant		
Compliance	ISO/IEC 11801-1, TIA-568.2-D		
Safety & EMC Standard Compliance	Yes		
OEM Warranty	OEM Standard Warranty		
Patch Panel shall be supplied with Preloade	d 24 nos. of RJ45 CAT6A Modular Jack from Day 1		
All required accessories shall be included as	per the space requirement to make the system complete.		

	CAT6A LAN Cable		
	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Category	CAT 6A - F/UTP LAN Cable		
Cable Construction	23 AWG Solid Bare Copper with Central Isolation member		
Jacket Material	Low Smoke Zero Halogen (LSZH)		
Standards Compliance	Electrical - ISO/IEC 11801, Fire Performance - IEC-60332-1		
OEM Warranty	OEM Standard Warranty		

CAT6A Patch Cord			
	Specifications	Compliance (Yes/No)	Datasheet Page Ref.
Category	CAT6A UTP Patch Cord	,	
Length	1 meter		
Cable Construction	26AWG Stranded Copper		
Jacket Type	CM/LSOH		
Plug Housing & Plastic Material	Flame Retardant		
Standards Compliance	Electrical - ISO/IEC 11801, Fire Performance - IEC-60332-1		