

Technical Specifications – Annexure I

1. 86 Inch Interactive Display – Qty.1 (Brio/Samsung/Senses/BenQ)

Specifications of 86 inches Interactive Panel		
Sr.no	Parameter	Specifications
1	Minimum Display Panel Size, Diagonal (in Inches)	86 (inch)
2	Display Type	Anti-Glare LCD with Direct-lit LED
3	Minimum Contrast Ratio	1200: 1 or more
4	Minimum Display Resolution (Horizontal x Vertical) (in Pixels)	4K UHD - 3840 x 2160
5	Display Aspect Ratio	16:9
6	Display Brightness (in Nits)	350cd/m2
7	View Angle (in Degree)	178 by 178
8	Minimum Panel Life (in Hours)	50000
9	Touch Interface	Touch Sensitive as well as Pen Driven
10	Touch Technology	Infrared (IR)
11	Number of Touch Points (in Number)	40
12	Response Time (in Milli Second)	4
13	Annotation Software	Yes
14	Additional Software's	Device Management Software
15	On Site Warranty Support (in Years)	3
16	Type of CPU	Inbuilt CPU with Slot Provision for Open pluggable Specification (OPS)
17	Number of Cores	4
18	Processor Number -Must Indicate	Quad Core
19	Processor Base Frequency (in GHz) -Must Declare	1
20	Memory (in GB)	8
21	SSD Storage Capacity (in GB)	128
22	Pre-Install Software (OS)	Android
23	Provision of Slot for Open pluggable Specification(OPS)	Yes
24	Availability of Bluetooth Connectivity	Yes. Inbuilt
25	Bluetooth Version	5.0
26	Availability of Wi-Fi Connectivity	Yes. Inbuilt
27	Wi-Fi Connectivity	802.11g (2.4 GHz) OR (5 GHz)
28	Power Supply	100-240 V , AC
29	AC Frequency (in Hz)	45
30	Power Consumption (in Watts)	450
31	Number of Electronic Pen or Stylus Each Panel	2
32	Speakers	15W*2

33	Input & Output Ports	USB 3.0 * 3 ; Touch out USB B type * 1 ; HDMI in * 1, USB-C * 1 , USB 2.0*2, HDMI IN*1, Touch USB *1, LAN*1, RS232 *1
34	Android Version	Android 14.0
35	Memory	8GB DDR4
36	Storage	128GB
37	IPMS	Built-in IPMS with IFP OEM's own complete IP and Source code, Software must be developed in India subject to audit. Ability to manage & maintain all deployed IFPs, including the functionality of: 1. Turn on/off the panel, 2. Change input/ volume, 3. Broadcast message to the panel, 4. Remote monitoring of the panel desktop. 5. Get Powerful Insights and Analytics
38	Accessory	User manual, power cable, touch pens, Integrated Writing Software
39	Certifications	BIS, FCC, ROHS, CE, BEE, ISO 9001, ISO14001, ISO 27001 GMP, CPCB certificate from last 5 years, Bid Specific MAF
Sr.no	Buyer Terms & Conditions	
1.	OEM of quoted Panel should have an average annual turnover of 50 Cr or Higher in last three year ending with 2024-2025 and with continuous profit making in business since Incorporation (CA certificates confirming Turnover and continuous profitability should be submitted)	
2.	Quoted Panel OEM should not have been ever blacklisted	
3.	OEM must have Interactive Flat Panel manufacturing/assembling unit in India.	
4.	OEM must have ISO 9001:2015, ISO 45001:2018, ISO 27001:2013, ISO 14001:2015 Certifications (Certificates to be attached with the bid)	
5.	OEM of the quoted IFP must be registered under pollution control board following the E-waste/ ERP guidelines from last 5 years (CPCB Certificates since 2018 should be attached with the bid)	
6.	Interactive Panel and OPS should be from the same OEM with BEE as well as BIS certificate for each item in OEM's Brand (BEE and BIS Certificate to be attached with the bid)	
7.	OEM authorization letter (MAF) for the proposed solution to be attached.	
8.	Quoted Panel OEM should be in the Interactive Flat panel business for last 10 years before bid submission date.	
9.	Warranty – 3 Years (Back to back with OEM) – Comprehensive	
10.	Buyer reserves the right to ask the bidder to produce sample of the product quoted to verify the specification and other T&C of bid at technical evaluation stage. If the product do not satisfy the technical parameter and T&C of the bid, the offer of the bidder will be rejected without any further clarification	

2. 86 Inch Interactive Display – Qty.2 (Brio/Samsung/Senses/BenQ)

Specifications of 86 inches Interactive Panel		
Sr.no	Parameter	Specifications
1	Minimum Display Panel Size, Diagonal (in Inches)	86 (inch)
2	Display Type	Anti-Glare LCD with Direct-lit LED
3	Minimum Contrast Ratio	1200: 1 or more
4	Minimum Display Resolution (Horizontal x Vertical) (in Pixels)	4K UHD - 3840 x 2160
5	Display Aspect Ratio	16:9
6	Display Brightness (in Nits)	350cd/m2
7	View Angle (in Degree)	178 by 178
8	Minimum Panel Life (in Hours)	50000
9	Touch Interface	Touch Sensitive as well as Pen Driven
10	Touch Technology	Infrared (IR)
11	Number of Touch Points (in Number)	40
12	Response Time (in Milli Second)	4
13	Annotation Software	Yes
14	Additional Software's	Device Management Software
15	On Site Warranty Support (in Years)	3
16	Type of CPU	Inbuilt CPU with Slot Provision for Open pluggable Specification (OPS)
17	Number of Cores	4
18	Processor Number -Must Indicate	Quad Core
19	Processor Base Frequency (in GHz) -Must Declare	1
20	Memory (in GB)	4
21	SSD Storage Capacity (in GB)	32
22	Pre-Install Software (OS)	Android
23	Provision of Slot for Open pluggable Specification(OPS)	Yes
24	Availability of Bluetooth Connectivity	Yes. Inbuilt
25	Bluetooth Version	5.0
26	Availability of Wi-Fi Connectivity	Yes. Inbuilt
27	Wi-Fi Connectivity	802.11g (2.4 GHz) OR (5 GHz)
28	Power Supply	100-240 V , AC
29	AC Frequency (in Hz)	45
30	Power Consumption (in Watts)	450
31	Number of Electronic Pen or Stylus Each Panel	2
32	Speakers	15W*2
33	Input & Output Ports	USB 3.0 * 3 ; Touch out USB B type * 1 ; HDMI in * 1, USB-C * 1 , USB 2.0*2, HDMI IN*1, Touch USB *1, LAN*1, RS232 *1

34	Android Version	Android 8
35	Memory	4GB
36	Storage	32GB ROM
37	IPMS	Built-in IPMS with IFP OEM's own complete IP and Source code, Software must be developed in India subject to audit. Ability to manage & maintain all deployed IFPs, including the functionality of: 1. Turn on/off the panel, 2. Change input/ volume, 3. Broadcast message to the panel, 4. Remote monitoring of the panel desktop. 5. Get Powerful Insights and Analytics
38	Accessory	User manual, power cable, touch pens, Integrated Writing Software
39	Certifications	BIS, FCC, ROHS, CE, BEE, ISO 9001, ISO14001, ISO 27001 GMP, CPCB certificate from last 5 years, Bid Specific MAF
Sr.no	Buyer Terms & Conditions	
1.	OEM of quoted Panel should have an average annual turnover of 50 Cr or Higher in last three year ending with 2024-2025 and with continuous profit making in business since Incorporation (CA certificates confirming Turnover and continuous profitability should be submitted)	
2.	Quoted Panel OEM should not have been ever blacklisted	
3.	OEM must have Interactive Flat Panel manufacturing/assembling unit in India.	
4.	OEM must have ISO 9001:2015, ISO 45001:2018, ISO 27001:2013, ISO 14001:2015 Certifications (Certificates to be attached with the bid)	
5.	OEM of the quoted IFP must be registered under pollution control board following the E-waste/ ERP guidelines from last 5 years (CPCB Certificates since 2018 should be attached with the bid)	
6.	Interactive Panel and OPS should be from the same OEM with BEE as well as BIS certificate for each item in OEM's Brand (BEE and BIS Certificate to be attached with the bid)	
7.	OEM authorization letter (MAF) for the proposed solution to be attached.	
8.	Quoted Panel OEM should be in the Interactive Flat panel business for last 10 years before bid submission date.	
9.	Warranty – 3 Years (Back to back with OEM) – Comprehensive	
10.	Buyer reserves the right to ask the bidder to produce sample of the product quoted to verify the specification and other T&C of bid at technical evaluation stage. If the product do not satisfy the technical parameter and T&C of the bid, the offer of the bidder will be rejected without any further clarification	

3. 4K- 4 Port High Quality Splitter – Qty. 1

Feature	Specification
HDMI Configuration	1 Input × 4 Outputs
Supported Resolution	Up to 4K UHD (3840×2160)
Refresh Rate	30Hz or 60Hz (better models support 60Hz)
HDMI Version	HDMI 2.0 / HDMI 2.1
HDCP Support	HDCP 2.2 / HDCP 2.3
Bandwidth	Up to 18Gbps
HDR Support	HDR10 / Dolby Vision (model dependent)
Audio Formats	Dolby Digital, DTS, Dolby Atmos
Video Color Format	4:4:4 / YUV / Deep Color
Transmission Distance	15–30 meters
Power Supply	DC 5V / 1A–2A Adapter
Plug & Play	Yes
Material	Metal or ABS body
LED Indicators	Power and signal status
Compatibility	TV, Monitor, Projector, PS5, Xbox, , Laptop, CCTV NVR
Warranty	1 Year by OEM

4. HDMI Cable – 25 Meter , Qty. 2

Specification	
HDMI Version	HDMI 2.0 Active
Maximum Resolution	4K UHD
Refresh Rate	60Hz
Bandwidth	18Gbps
HDR Support	HDR10
HDCP Support	HDCP 2.2
ARC Support	Yes
Ethernet Channel	Yes
Audio Support	Multi-channel
Connector Type	HDMI Type-A Male
Shielding	Industrial Shielding
Cable Type	Active HDMI
Compatibility	Commercial AV