Item No-4 (A)

Video Wall in University Examination Center (New Building)

Specification for 3X3 Video Wall Display for Examinations &Evaluation monitoring Hall:

- *General Requirements*
- The video wall shall be made up of 9 No.s of LED flat panels of 55" (e.g.: 3 Horizantal X 3 Vertical array of 55" LEDs for Director of for Examination conference room ,with a frameless or minimal border width (no more than3.5 MM total width between visible areas) mounted on a Wall Mounting or an modular structure.
- The total display area is 12 feet x 6.6 feet
- The video wall system shall be rated for 24/7/365 operations for 50,000 hours.
- The video wall system shall have an active solution for image persistence and/or image staining.
- The video wall system shall be capable of dynamically balancing color and brightness between all the display units.
- The video wall system shall display computer signals (up to 1920x1080), plus Standard Definition (SD) and High Definition (HD) video (up to 1080p).
- Input terminal for the video wall panel should be have interface with Digital interface ports such asDVI-D, HDMI and the analog interface should be with RGB (1), COMPONENT (RGB Shared) and AV (RGB Shared) and the Input External control should be controller with RS232 ,RJ45 and IR Receiver for the Video wall panel.
- Output connectivity for the video wall should be compatible with Digital DVI-D port Interface and the output External control with RS232 interface.
- Pixel pitch should not be 0.63mm lesser between pixel pitch to pixel pitch
- OEM Vendor should offer Panel Free software for Monitor and control thepanel .
- Each panel brightness should be more than 500 nits or equal to 500 nits with
- the contrast ratio of 1400:1 and also with Dynamic CR should be equal to 50,00,000: 1 or greater .
- Panel should have view angel with 178 degree with the panel platform of IPS technology
- OEM vendor should offer Free OS for advanced color adjustment and also should have automatic white balancing of videowall display using Sensor .
- Video wall OS should be capable to control via the networks and RS-232connection feature.
- OEM Authorization letter has to submitted

SPECIFICATIONS FOR VIDEOWALL MONITOR:

Screen Size	55" (54.64" measured diagonal)
Panel Technology	IPS
Aspect Ratio	16:09
Native Resolution	1920 x 1080(FHD)
Pixels(H x V x 3)	6,220,800

Brightness		500cd/m2
Contrast Ratio		1,400:1
Dynamic CR		500,000 : 1
Color gamut		72%
Viewing Angle(H x V)		178 x 178
Color Depth		1.06 Billion
Response Time		12ms(G to G)
Surface Treatment		Hard coating(3H), Anti-glare treatment of the front polarizer (Haze 10%)
Life time		60,000 Hrs
Orientation		Portrait & Landscape
VIDEO(PC)		
Max Input Resolution		1920 X 1080@ 60Hz(RGB, HDMI, DVI-D)
Recommended Resolution		1920 X 1080@ 60Hz(RGB, HDMI, DVI-D)
H-Scanning Frequency		30 ~ 83 kHz (RGB, HDMI, DVI-D)
V-Scanning Frequency		56Hz ~ 75Hz (RGB), 56Hz ~ 60Hz (HDMI, DVI-D)
Pixel Frequency		148.5MHz (RGB, HDMI, DVI-D)
Sync Compatability		Separate / Digital
Video Input		RGB, HDMI, DVI-D, Component, AV
Picture mode		Vivid, Standard , APS, Cinema, Sports, Game, Expert1, Expert2
Color temperature		Warm, Medium , Cool
Connectivity		
Input		
Digital (With HDCP)	HDMI	O(1)
	DVI-D	O(1)
Analog	RGB	O(1), Shared component/AV
Audio		X
	RS232C	O(1)
	RJ45	O(1)
	IR Receiver	O(1)
External Control		
USB		O(1)
HDTV Formats		
Output		
Digital (With HDCP)	DVI-D	O(1)
External Control	RS232C	O(1)
Physical Specification		
Bezel Color		Black
Bezel Width		2.25mm (left/top) / 1.25mm(right/bottom)
Monitor Dimension(W x H x D)		1213.4mm x 684.2mm x 88.5mm
Weight(Head)		23kg

Handle	Yes
VESA^{TM} Standard Mount Interface	600mm x 400mm
SPECIAL FEATURES	
Temperature Sensor	Yes
Tile Mode	Yes, Up to 15 x 15
Natural Mode @Tile Mode	Yes
Source Selection	Digital(HDMI / DVI) / Analog(RGB) / Component / USB
Brightness/Contrast/Backlight	Yes
Position/Size	Yes
Auto Config/Phase	Yes
ISM Method	Normal, Color Wash
Advanced	Dynamic Contrast, Dynamic Color, Color Gamut, Skin Color, Sky Color, Grass Color, Gamma
Time	Clock, On/off Time, Auto off, Automatic standby
Input Label	Yes
Auto Power/Source Memory	Yes
Key Lock	No
DPM Select	Yes (Installation Menu)
Energy Saving	Yes, Off / Minimum / Medium / Maximum / Screen Off
Smart Energy Saving	Yes
File Play with USB	Yes
Picture Option	Digital Noise Reduction, MPEG Noise Reduction, Black Level, Real Cinema
Power on Delay,	Yes (Installation Menu)
Environment Conditions	
Operation Temperature	0 °C to 40 °C
Operation Humidity	10 % to 80 %
POWER	
Power Supply	100-240V~, 50/60Hz
Power Type	Built-in Power
Power Consumption	
Typ.	160W
Smart Enegy Saving	90W
DPM	0.7W
Power off	0.5W
STANDARD(CERTIFICATION)	
Safety	UL / cUL / CB / TUV / KC
EMC	FCC Class "A" / CE / KCC
ErP / Energy Star	NA / Yes(Energy Star 6.0)
Media Player Compatibility	
External Media player Attatchable	Yes

Software Compatibility	
SuperSign-w lite	Yes
SuperSign-c	Yes

SPECIFICATIONS FOR MONITOR:

Screen Size (Inches)	55 Inches
Type of Television	LED
Panel Technology	IPS
Resolution (Pixels)	1920X1080
Internal Media Player	Yes
Aspect Ratio	16:09
Surface Treatment	Potrait & Landscape
Brightness	350 Nits
Audio Output (PMPO) (Watts)	20W
WIFI Module	WIFI Ready
Web Browser	Yes
External Control-Input/output	
HDMI Input	1
DVI-D	1
USB	1
DP	**1**
IR Receiver	1
RS232C	1
RJ45	1
IR/Light Sensor	1
Software Compatability	
Software Compatability	Super Sign Software for Editing and content Push
Image Quality	
Resolution	FULL HD DISPLAY

Brightess	350 Nits
Desgin	
Bezel	11.9mm Even
TCO	
Power Consumptions	100-240 V

A:**Commercials for 3X3 Video wall Hardware for Examination & Evaluation Monitoring Hall :**

S.no	Product	Specifications	Qty	Rate	Total
1	55" LCD Videowall	55" (54.64" measured diagonally) Ultra-thin bezel – Narrow Bezel with 3.5 mmsim S/W Brightness-500Cd/sqm Panel Technology-IPS Panel Contrast Ratio -1400:1 (dimming set to high) USB Cloning, Welcome Screen, IR-Out, RJP Interface (HMDI), USB auto playback, MHL, RTC, web Os, with SDK kit 3-Year Limited Warranty (Parts/Labor/Backlight)	9		
2	WORK STATION	CPU:E3-1225V53.38M Memory:8GB DDR4 HDD:1TB Graphics:NVIDIA QUADRO K620 2GB OS:Win10 Pro64 downgradable Win7 64 bit ODD: DVD RW Warranty :36 months	1		
3	Switcher	MultiPlex switcher	01		

B. **Commercials for Video wall Room Architecture**

S.no	Product	Specifications	Qty	Rate	Total
1	VW Wall Fabrication	16X10 laminated wood partition with iron structure to Fix 12X6.6 feet Videowall	160ft		
2	Wall Brackets	Wall brackets for Videowall	9		
3	Cables	HDMI ,VGA,Power Cables,other accessiores	lumsum		
4	Installation	For the Hardware part	lumsum		
			Sub-total		
			Total		

ITEM NO-4 (B)

Specification of 2X2 Video Wall Display for Director Examination Chamber :

- *General Requirements*
- The video wall shall be made up of 4 Nos of LED flat panels of 55" (e.g.: 2 Horizantal X 2 Vertical array of 55" LEDs for Director of Examination chamber ,with a frameless or minimal border width (no more than3.5 MM total width between visible areas) mounted on a Wall Mounting or an modular structure.
- The total display area is aprrox 7 feet x 4 feet
- The video wall system shall be rated for 24/7/365 operations for 50,000 hours.
- The video wall system shall have an active solution for image persistence and/or image staining.
- The video wall system shall be capable of dynamically balancing color and brightness between all the display units.
- The video wall system shall display computer signals (up to 1920x1080), plus Standard Definition (SD) and High Definition (HD) video (up to 1080p).
- Input terminal for the video wall panel should be have interface with Digital interface ports such asDVI-D, HDMI and the analog interface should be with RGB (1), COMPONENT (RGB Shared) and AV (RGB Shared) and the Input External control should be controller with RS232 ,RJ45 and IR Receiver for the Video wall panel.
- Output connectivity for the video wall should be compatible with Digital DVI-D port Interface and the output External control with RS232 interface.
- Pixel pitch should not be 0.63mm lesser between pixel pitch to pixel pitch
- OEM Vendor should offer Panel Free software for Monitor and control thepanel .
- Each panel brightness should be more than 500 nits or equal to 500 nits with
- the contrast ratio of 1400:1 and also with Dynamic CR should be equal to 5,00,000: 1 or greater .
- Panel should have view angel with 178 degree with the panel platform of IPS technology.
- IPS Premium Displays present crystal clear images in both landscape and portrait orientations without hot spots until screen surface temperature rises above 230°F.
- OEM Authorization letter has to submitted
- The Videowall need to Fixed along with Installation

SPECIFICATIONS FOR VIDEOWALL MONITOR:

Screen Size	55" (54.64" measured diagonal)
Panel Technology	IPS
Aspect Ratio	16:09
Native Resolution	1920 x 1080(FHD)
Pixels(H x V x 3)	6,220,800
Brightness	500cd/m2
Contrast Ratio	1,400:1
Dynamic CR	500,000 : 1
Color gamut	72%
Viewing Angle(H x V)	178 x 178

Color Depth		1.06 Billion
Response Time		12ms(G to G)
Surface Treatment		Hard coating(3H), Anti-glare treatment of the front polarizer (Haze 10%)
Life time		60,000 Hrs
Orientation		Portrait & Landscape
VIDEO(PC)		
Max Input Resolution		1920 X 1080@ 60Hz(RGB, HDMI, DVI-D)
Recommended Resolution		1920 X 1080@ 60Hz(RGB, HDMI, DVI-D)
H-Scanning Frequency		30 ~ 83 kHz (RGB, HDMI, DVI-D)
V-Scanning Frequency		56Hz ~ 75Hz (RGB), 56Hz ~ 60Hz (HDMI, DVI-D)
Pixel Frequency		148.5MHz (RGB, HDMI, DVI-D)
Sync Compatability		Separate / Digital
Video Input		RGB, HDMI, DVI-D, Component, AV
Picture mode		Vivid, Standard , APS, Cinema, Sports, Game, Expert1, Expert2
Color temperature		Warm, Medium , Cool
Connectivity		
Input		
Digital (With HDCP)	HDMI	O(1)
	DVI-D	O(1)
Analog	RGB	O(1), Shared component/AV
Audio		X
	RS232C	O(1)
	RJ45	O(1)
	IR Receiver	O(1)
External Control		
USB		O(1)
HDTV Formats		
Output		
Digital (With HDCP)	DVI-D	O(1)
External Control	RS232C	O(1)
Physical Specification		
Bezel Color		Black
Bezel Width		2.25mm (left/top) / 1.25mm(right/bottom)
Monitor Dimension(W x H x D)		1213.4mm x 684.2mm x 88.5mm
Weight(Head)		23kg
Handle		Yes
VESA^{TM} Standard Mount Interface		600mm x 400mm
SPECIAL FEATURES		
Temperature Sensor		Yes
Tile Mode		Yes, Up to 15 x 15
Natural Mode @Tile Mode		Yes

Source Selection	Digital(HDMI / DVI) / Analog(RGB) / Component / USB
Brightness/Contrast/Backlight	Yes
Position/Size	Yes
Auto Config/Phase	Yes
ISM Method	Normal, Color Wash
Advanced	Dynamic Contrast, Dynamic Color, Color Gamut, Skin Color, Sky Color, Grass Color, Gamma
Time	Clock, On/off Time, Auto off, Automatic standby
Input Label	Yes
Auto Power/Source Memory	Yes
Key Lock	No
DPM Select	Yes (Installation Menu)
Energy Saving	Yes, Off / Minimum / Medium / Maximum / Screen Off
Smart Energy Saving	Yes
File Play with USB	Yes
Picture Option	Digital Noise Reduction, MPEG Noise Reduction, Black Level, Real Cinema
Power on Delay,	Yes (Installation Menu)
Environment Conditions	
Operation Temperature	0 °C to 40 °C
Operation Humidity	10 % to 80 %
POWER	
Power Supply	100-240V~, 50/60Hz
Power Type	Built-in Power
Power Consumption	
Typ.	160W
Smart Enegy Saving	90W
DPM	0.7W
Power off	0.5W
STANDARD(CERTIFICATION)	
Safety	UL / cUL / CB / TUV / KC
EMC	FCC Class "A" / CE / KCC
ErP / Energy Star	NA / Yes(Energy Star 6.0)
Media Player Compatibility	
External Media player Attatchable	Yes
Software Compatibility	
SuperSign-w lite	Yes
SuperSign-c	Yes

A:Commercials for 2X2 Video wall Hardware for Director Evaluation Chamber

S.no	Product	Specifications	Qty	Rate	Total
1	55" LCD Videowall	55" LV35A (54.64" measured diagonally) Ultra-thin bezel – Narrow Bezel with 3.5 mmsim S/W Brightness-500Cd/sqm Panel Technology-IPS Panel Contrast Ratio -1400:1 (dimming set to high) USB Cloning, Welcome Screen, IR-Out, RJP Interface (HMDI), USB auto playback, MHL, RTC, web Os, with SDK kit 3-Year Limited Warranty (Parts/Labor/Backlight)	4		
2	WORK STATION	CPU:E3-1225V53.38M Memory:8GB DDR4 HDD:1TB Graphics:NVIDIA QUADRO K620 2GB OS:Win10 Pro64 downgradable Win7 64 bit ODD: DVD RW Warranty :36 months	1		
3	Switcher	MultiPlex switcher	01		
4	LFD Monitor	55" commercial monitors for Surveillance observation CE chambers. Panel Technology-IPS Panel	02		

B. Commercials for Video wall Room Architecture

S.no	Product	Specifications	Qty	Rate	Total
1	VW Wall Fabrication	10X10 laminated wood partition with iron structure to Fix 7X4 feet Videowall	100ft		
2	Wall Brackets	Wall brackets for Videowall	6		
3	Cables	HDMI ,VGA,Power Cables,other accessiores	lumsum		
4	Installation	For the Hardware part	lumsum		
			Sub-total		

Item – 4: Video Wall

Sr. No.	Item	Unit	Qty	Unit Rate	Total Amount
A	3X3 Video Wall Display		1		
B	2X2 Video Wall Display		1		
				Sub Total	

(Signature of Bidder with stamp)