Annexure A – Hardware Requirements

1. Video Wall Hardware Specifications

#	Component	Description	Preference
1.	Architecture	System Architecture	The Tiled LCD Monitor Video Wall System shall be made up of a 6x2 video wall - (6) wide by (2) high, 55" direct view LCD monitors (7 total) in an architecture which includes: 1. 6x2 Video Wall LCD Monitor Modules,
			2. An Integrated Mounting System,3. Off-board electronics with
			power supplies and image processing capabilities with software and applications.
2.		Architecture Main Features	LCD monitor displays must not employ fans for cooling.
			Mounting system must provide 6 axes of adjustment for panel alignment.
			Mounted depth must be ADA-compliant
			4. LCD displays must have option for redundant power supplies
			5. The Tiled LCD Monitor Video Wall System must support signal transmission of 330 ft. (100 m) without
			6. extenders.
			7. The (7) Tiled LCD Monitor Video Wall System shall also consist of Off Board Control Electronics and
			8. Display System Power Supplies, with all cabling.

			9. The (7) Tiled LCD Monitor Video Wall System shall allow for 4K input with scaling Input sources of 10. 3840x2160 can be daisy chained and scaled across the entire video wall matrix.
3.	Display	Display Device (OLED/LCD)	LCD
		Screen Size	55"
		Resolution	1920*1080
		Aspect ratio (W:H)	16:9
		Technology	Commercial-grade direct view LCD
		Tiled bezel width (min.)	1.7 mm or better
		Brightness (maximum)	500 candelas or nits minimum or better
		Response time (typical)	8ms or better
		Contrast ratio (full field)	3500:1 or better
		Full viewing angle	178°
		Colours	16.7 million min
		Backlight type	LED
		Backlight life (1/2 brightness)	50,000 Hours or better
		Mounted depth	3.6" from back to front of screen
		Heat load	630 BTU per hour max
		Backlight control	Individual and wall control
		Backlight sensing and reporting	At display level
		Display module position sensing	Auto-sensing integrated

Power consumption	Approx. 182 watts per panel
	(Typical)
Redundancy	1+1 redundant power supply option
Power supply voltage	100-230V AC ± 10%, 50 to 60 Hz
Bezel thickness	1.7mm or less
Power status	Diagnostics LEDs, health monitoring and alerts
Power status	Diagnostics LEDs, health monitoring and alerts
Safety regulations	Complies with EN60950, FCC Class A, CISPR22/85, CE, EU RoHS
Noise	The display must utilize a fan- less design
Operating Temperature	The display must be able to operate in a 0-40°C (32-104°F) environment.
Operating Humidity	The display must be able to operate in a 20-90% RH non-condensing environment.
Commercial Grade LCD	The display must be a
Module	commercial grade LCD module warranted for 24/7 extended use operation.
Viewing Angle	The display must have a horizontal and vertical viewing angle of 178°

		I	T
		Auto Panel Position	Each LCD module must have
		Discovery	sensors built inside the unit to
			determine where it is in an
			array and communicate to the
			other displays where it is. It
			then must be able to scale an
			image across the entire
			array automatically.
		LCD Temperature	The LCD module must contain
		Monitoring	a temperature sensor that can
			monitor the temperature of
			the LCD
			module and through LAN and
			other RS232 control devices
			can alert the user of an over-
			temperature condition.
		Backlight Control	The display must have the capability to control the backlight intensity individually or globally across the entire array.
			No AC Power behind the displays
			3. The display must have a native resolution of 1920x1080p
			4. An LCD module must be capable of being replaced without changing the power supply module or electronics module on the display itself.
			5. AC power behind the displays (in walls) is not required
4.	Integrated Monitor Mounting System	6-Axis Adjustable Mount	The LCD module must include an integrated mounting system that allows for 6- axis of adjustments to achieve a perfectly aligned LCD array.

		Installed Death	The inetalled double of the
		Installed Depth	The installed depth of the LCD module and mounting
			system must be less than 3.6"/114.3mm.
		In-Wall Servicing	1. The LCD module and
		in-wan servicing	mounting system must
			allow for an LCD to be
			put into a service position
			to access components or
			make cable connections
			from the front of the
			video wall.
			2. The LCD module and
			mounting system must
			allow the removal of an
			LCD module without
			completely
			taking down the LCD
			modules around it.
			3. The components on the
			back of the LCD module
			need to be serviceable
			from the front of the wall
			when
			installed.
		Weight	The LCD module and mount
			combined must weigh less
			than 27 kg
		Orientation	The display must be capable
			of being installed in both
			landscape and portrait
			orientation.
		Alignment Brackets	The mounting structure must
			have alignment brackets that
			automatically space the
			mounts apart from each
			other to make up the 6x2
			wall configuration.
5.	Off-Board Controls	Architecture	The Off-Board Display
	Electronics and		System Electronics shall consist of power supply
			module and image controller
	Display System		that
	Power Supplies		controls up 12 monitors in a
			6x2 array and can be
			extended to work with other
			processors for arrays larger
		1	· · · · · · · · · · · · · · · · · · ·
			than 6x2 and 6 Spare
			Outputs
		Connectivity	- I
		Connectivity	Outputs

	inputting and displaying (4)
	HDMI inputs and 1
	DisplayPort inputs for every 4
	monitors
High Bandwidth Input	The Off-Board Display
Capabilities	System Electronics system
	must be able to accept high
	bandwidth inputs with a
	pixel-clock up to 330 MHz
	and spread it across multiple
	displays.
Frame Lock	The Off-Board Display
	System Electronics system
	must be able to frame lock to
	an incoming source with
	vertical frequencies between
	49-61 MHz
Panel Damage Prevention	The Off-Board Display
	System Electronics system
	must have a real time clock
	integrated into the
	electronics to allow for
	scheduled Power On and off
Off board Floatures or and	to prevent long-term damage
Off-board Electronics and	The electronics and power
Power Supply modules	supplies for each LCD module
	must be off board (removed) from the back of
	the LCD panel and placed in a separate system for rack
	mounting in location that is
	conveniently placed for
	service and installation away
	from the video wall
HDCP Compliance	The Off-Board Display
Tibel Compilance	System Electronics system
	must be HDCP compatible
	and be capable of passing
	the licensing key to other
	displays in the array when
	looping the signal through
	(daisy-chaining).
Loop-through Capabilities	The Off-Board Display
, 5,	System Electronics system
	must be able to distribute
	any of Its 8 inputs to any one
	of the LCD modules and any
	additional controller
	electronics connected with
	the loop-through signal.
IR Remote Control	The Off-Board Display
	System Electronics system

	1
	must have IR remote control
	that can control an individual
	display or an entire array for
	complete control over all
	command functions by an
	on-site
	operator through an on-
Cabling	Screen menu.
Cabling	All Network cabling will be CAT6 minimum
Auto Cotup Options	
Auto Setup Options	The Off-Board Display
	System Electronics system must be able to automatically
	detect and sync to any
	incoming selected source
	within the specified operating
	range without user
	intervention.
RS-232	The Off-Board Display
	System Electronics system
	must be capable of accepting
	and passing through RS-
	232 control commands to an
	array of displays. The display
	must be capable of setting a
	unique unit identification
	number for acceptance of
	unit specific RS-232
	commands and address the
	array globally.
Colour Temperature pre-	The Off-Board Display
sets	System Electronics system
	must include selectable pre-
	sets that allows for colour
	temperature settings of at
	least 6500, 3200, and native.
LAN Control	The Off-Board Display
	System Electronics system
	must have a built-in option
	for health monitoring of
	the display including current
	status and email alerts over a
CAUMO	LAN.
SNMP	The Off-Board Display
	System Electronics system
	must have option for SNMP
0 1111111111111111111111111111111111111	capability.
Compatibility Mode Table	The Off-Board Display
	System Electronics system
	must be capable of accepting
	different mode timings and

syncing without user intervention. Diagnostic LED's The Power supply module and controller electronics shall have front visible diagnostic and status LED's that aid with setup and troubleshooting. The Off-Board Display System Electronics system must be capable of accepting input resolutions of VGA (640x480) to WUXGA (1920x1200) and scaling an image across various sections of an LCD video wall, or the entire LCD video wall, or the entire LCD video wall up to 6x2 screens. Mullion Compensation Mullion Compensation The Off-Board Display System Electronics system must have the capability to scale an image across the entire 6x2 array and scale the image to compensate for the physical mullion in the image. Internal Cable connections The Off-Board Display System Electronics system must have locking internal cable connections Long Distance Signal The Off-Board Display System Electronics system electronics must incorporate a Cat 6 cable solution that allows the electronics and source to be placed up to 330ft away from the displays with no 3rd party extension devices Add/Remove/Change Add/Remove/Change Add/Remove/Change System Electronics system must be capable of adding, removing, or changing source inputs without disrupting the LCD video wall. The Off-Board Display System Electronics system must be powered by a remote power supply module that can opperate up to 500 feet away from the LCD monitor grave.	<u> </u>		
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	Control Status	Diagnostic LEDs, health
		monitoring and alerts

2. Digital Signage Hardware Requirements

#	Component	Description	Preference
1.	Display	Display Device (OLED/LCD)	LCD
		Screen Size	55"
		Resolution	1920*1080
		Panel Type	RGB
		BLU Type	Direct
2.	Video (Picture	True Motion/Refresh Rate	TM100/50Hz - /50Hz
	Quality)	Colour Master Engine	Yes
		Upscaler	Resolution Upscaler
		HEVC Decoder	2K@60P, 10Bit
		VP9 Decoder	2K@60P, 8Bit
3.	Audio	Audio Output	20W
		Speaker System(ch)	2.0ch
		Surround Mode	Virtual Surround Plus
		DTS Decoder	Yes
		Audio Codec	✓ AC3(Dolby Digital) ✓ EAC3 ✓ HE-AAC ✓ ACC ✓ MP2 ✓ MP3 ✓ PCM ✓ DTS ✓ DTS-HD ✓ DTS Express ✓ WMA
4.	Broadcasting System	Digital TV Reception (Terrestrial, Cable, Satellite)	T-: DVB-T/T2
		DVB: Data Broadcasting (Country Spec)	Differs by country (MHEG: Republic of South Africa)

5.	Connectivity	HDMI	2
		ARC (Audio Return Channel)	Yes (Side HDMI1)
		USB	1
		LAN	Yes
		Component/Composite in	1
		Composite In (AV)	1
		RF In	T/T2:1, T2/C/S2:2
		Wi-Fi (802.11.ac or	802.11ac(only)
		802.11.n)	
		Digital Audio Out (Optical)	Yes
6.	TV – Rear (Jack	RF In	T/T2:1, T2/C/S2:2
	Type)	Component In	(Y,Pb,Pr + Audio):5 1
		Composite In	(CVBS + Audio):3 1
		Digital Audio Out (Optical)	Yes
		LAN	Yes
7.	TV – Side (Jack	HDMI(6G/3G)	2ea
	Туре)	ARC (Audio Return Channel)	Yes (HDMI1)
		USB (3.0/2.0)	2.0: 1ea
		CI Slot	T/T2: -, T2/C/S2: Yes
		Design	С/Тор