

A	Large Video System Specification (LVS Cube)
Specification Item	Detailed Specification Description
Configuration	LARGE VIDEO SCREEN (LVS) CUBES OF 70" DIAGONAL 1(C) x 2 (R) CONFIGURATION with COMPLETE WITH BASE STAND WITH TOTAL DISPLAY AREA 1550 MM X 1744 MM
Cube & Controller	Cube & controller should be from the same manufacturer ,
Reputed Company	The OEM should be an established multinational in the field of video walls and should have installations around the world
Native resolution	Full HD (1920x 1080)
Video Wall Resolution	1920 X 2160 Pixels for 1x2 Configuration
Light Source Type	Laser light source
	Individual cube should be equipped with laser bank and laser bank should have an array of diodes.
Brightness of Projection engine	Typ. 2200 lumens
Brightness of Cube	Minimum 500 nits
Brightness Uniformity	≥ 98 % certified / tested by 3rd party lab. Report to be submit at the time of bidding
Dynamic Contrast	1000000:1 or more
Control	IP based control to be provided
Remote	IR remote control should also be provided for quick access
Screen to Screen Gap	≤ 0.2 mm at 23~ 25 ° C (control room Temperature)
Screen Support	Screen should be minimum 3 layers with a Hard Backing to prevent bulging
Control BD Input terminals	Input: 1 x Digital DVI
	Input: 1 x HDMI 2.0
	Input: 1 x Dsub-15
	Input: 1 x HDMI 2.0
	Input: 1 x Display port 1.2
Control BD Output terminals	Output : 2x HDMI 2.0
Pixel Clock	>500 MHz
Redundant Dual Power Supply	Cube should be equipped with a built in dual redundant power supply as intergal part of projection system
Hot swappable power supply	Dual inbuilt power supply should be hot swappable.
Cooling Inside Cube	By Means of a heat pipe
Anti-dust design Criteria	Projection unit should be designed based on International Electrotechnical Commission-60529.standard

Certification of Anti dust design	Projection unit should be certified by 3rd party lab to conform the design meeting the requirement of IEC -60529 standard. Test certificate should be submit as proof along with technical bid submission
Cube Depth	Total Cube depth should be equal or less than <570 mm
Source Redundancy	System should able to switch to secondary input if primary input is not available.
	System should also automatically switch back to primary input from secondary input as soon as the primary input is available again.
Monitoring of critical parameters	Internal Temperature
	Brightness
	Cooling
	Light Source Status
	Should be possible to demonstrate these parameter through active monitoring interface
Cube certification	Video Wall Cube should have BIS certification
Cube Size	Each cube should have a screen size of 1550 mm wide and 872 mm high
B	Video Wall CONTROLLER (Hardware)
The Controller should be able to make complete video wall display behave as one logical area. It should be possible to display any or all the inputs on the video wall in any desired configuration. Should be possible to increase the no. of inputs if desired at a later stage	
Controller & Display	Controller should be same OEM
Architecture	Should be based on Server architecture
Operating System	Windows 10 or higher -64 bit
RAM	16 GB or higher
HDD	500 GB or higher
RAID	RAID should be provided
Chip	Intel i7 or better
Power Supply	Dual Redundant Power Supply
Outputs	8 HDMI Output (FHD -1920x1080)
Inputs	4 HDMI (FHD-1920x1080) & Dual LAN
Chassis	19" rack mount industrial chassis
Controller certification	Controller should be have BIS certification

Wall management Software of Video wall controller	
Scaling and display	Software to enable the user to display multiple sources in any size and anywhere on the display wall.
Auto Source Detection	Software should support for auto source detection
Layout Management	Should support for Video, RGB, DVI, ,Internet Explorer, Desktop Application and Remote Desktop Monitoring Layouts
Scenarios	Software should able to Save and Load desktop layouts from Local or remote machines
Layout Scheduler	All the Layouts can be scheduled as per user convenience
	Software should support auto launch of Layouts according to specified time or event by user
Layout Preview	Software should support layout preview option
Launch Application	Software should be able to support
Integration with 3rd party devices	System should offer interface to enable control from 3rd party devices like Creston ,AMX etc.
Live Preview	Software should able to provide live preview of video wall
Work space allocation	System should provide functionality to the administrator to define and allocate work space for a particular operator or a group of operators when working on a Video wall
Authentication	Software should offer 4 levels of Authentication (User accounts, Permissions for functionality & Roles etc.).
Offline Layouts	It should be possible to create offline layouts
User friendly	Software should be user friendly
Ticker	Ticker message can be positioned anywhere on the display wall. Inside the ticker window, font size, color and background can be set
Ticker Type	Software should able to prepare various kinds of tickers: text ticker, RSS ticker, transparent and time ticker
Protection	System should have Hardware License key to protect the software from unauthorized access.

Source Carousel:	User can set multiple sources that can change sequence after some time interval without changing the layout.
Region management	Admin can assign Video wall workspace to user based on pixel map
Snap sensitivity	Enables the magnetic behavior to fit the sources automatically for easy alignment on the wall
Scalable GUI	Scalable GUI to scale to any size of Video wall screen.
Scheduler	User can schedule the layout on specific date & time, weekday, weekend , start & end date
Source positioning	User can position the source input on Video wall with single click
C	Laser Engine Adaption KIT
Laser Engine Kit	RKT-8350-XX (Laser Engine with Adaption kit) / VW-8350 Series(Laser projection Engine)
Product Model	Laser Light Source Optical Engine
Display Technology	DLP, Single Chip
Native Resolution	Full HD (1920x1080)
Throw Ratio	0.57:1
Brightness	Typ. 2400 Lumens
Brightness Uniformity	98%
Static Contrast Ratio	Typ. 1800:1
Dynamic Contrast Ratio	1500000:1
Light Source	Laser
Estimate Lamp Life	Eco Mode - 100000 Hours
	Typ Mode-80000 Hours
	High Brightness Mode - 60000 Hours
Color	Typ. 16.7 million
Cube Control	IR Based Monitoring & Control
Standard Input	1xDigital DVI, 2xHDMI
	1x Analog D-sub15PIN , 1xDP 1.2
Standard Output	2xHDMI
Pixel Clock	162-500 Hz
Control	1xRS-232, 1xRS 422 RJ45, 1xIR Receiver,1xEthernet
Power Supply	Redundant hot Swappable dual Power Supply available as option
AC Input Voltage	AC 90-240 V@50/60 Hz

Power Consumption	High Brightness Mode - 265W
	Normal Mode 230 W
	Eco mode 170 W
operating Temperature/ Humidity	10-40° /10-90°,Non-condensing
Adjuster Base	Manual/Motorized six axis adjuster base available as option
Brackets	Customized fitment bracket available as option
D	Server Rack
Material	with Front HEX PRF Steel Door and Rear Steel Door , removable SIDE Panel with Castor Wheel
Dimensions	12 U 600x1200 MM ,
Colling	230 V Ac 90 CFM LEED Colling FAN
Power Socket	PDU 19" Horizontal 6 Socket 5/15 AMP with MCB

Note: Manufactured authorization form required to bidder to submit the BID for Delta make LVS, video wall Controller and Lase engine upgrade Kit