Supply & Fixing of P4 LED Outdoor Units with Technical and Software Support with
Two Years Free Comprehensive Warranty and Three Years Paid Comprehensive Service Maintenance
Warranty at 11 Locations across the State of Kerala

Annexure III
(Also See Instructions to Vendors, Application cum Profile of Vendor, , Annexure I & Annexure III [Type text]

PART A

S. NO	Description
1	Providing and Commissioning of Outdoor Type Video Wall with pixel pitch – P4, Screen as per detailed specifications. The rate shall be inclusive of allied facilities such as controller, SIM card, USB, Software, remote controller, Timer, Onsite Maintenance, Statutory approvals if any. Crane Charges if applicable, HDMI Patch Cable, Scaffolding from the Ground to the required height as per site conditions & accessories as required for the digital board, as per the technical specifications.
2	Supplying, erecting and fixing in position Pre- fabricated Bi pole structures at all elevations for fixation of Digital LED board using structural steel sections conforming to IS to including cutting, welding or bolting, supply of bolts/nuts/washers etc., complete as per approved drawings including surface preparation and applying two coat of Zinc chromate Primer before erection and two coats of synthetic enamel paint as per specification after erection and all materials and labour complete. The rate quoted shall include cost of wastages, bolts, nuts, washers, welding and electrodes and any other consumables required for completing the work. The rate shall include the cost of providing and laying non-shrink grouting compound of approved make below the base plates of steel stanchions/pipes including necessary formwork. The base plate shall be fixed with 12/16mm dia anchor fasteners depending on the locations. The rate including Concreting, Foundation bold, clamp, scaffolding from the ground to the required height. The steel frame shall be designed to withstand wind speed as IS 875-part 3 for mounting above video wall concerting and foundation, 3 mm chequered plate etc.

Vendor has to submit the Structural Design of the supporting Structure and its Foundation with minimum Grade of Concrete M25, Reinforcing Steel of min Fe500

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PART B

S.No:	Description	P4 Outdoor	Compliance	Remarks
01	Pixel Pitch	4mm		
02	Pixel density	≥62500 Dots/Sq Mtr		
03	LED Lamp	SMD 2525		
04	Configuration	1R1G1B		
05	Size	320X160mm		
06	Weight	≤0.50 Kg		
07	Structure	Lamp & IC in same		
08	Resolution	80*40=3200 Dots		
09	Max Current	<10.34A		
10	Input Voltage	4.5 V		
11	Power Consumption	Less than 450 watts/m^2		
12	Driving Mode	Constant Current		
13	Brightness	>4500 cd/m^2		
14	Bright Variation	20-100%		
15	Brightness Uniformity	>0.95		
16	Horizontal Viewing angle	120-140 Deg		
17	Vertical Viewing Angle	120-140 Deg		
18	Best Viewing distance	>4M		
19	Black Spot Ratio	<0.0003		
20	Max Power Consumption	<909 W/m2 Operation		
21	Operation Environment	Outdoor		
22	Grey Scale	16 Bits (RGB Each)		
23	Display Colour	≥4000 Billion		
24	Refresh Frequency	3840 HZ		
25	Life Span	>100000 Hours		
26	IP Rating	IP 65		
27	Panel Material	Die cast Aluminium / Aluminimum & Steel Iron Support		
28	Double Pole	ELCB – 16 amps 30 milliamps		
29	Earthing Points	Two Points with sufficient size of the wire		

S.No:	Technical Specifications (Cloud)	Compliance
01	Cloud Hosting on reputed hosting services like AWS / Azure /Google etc which can scale to support up to 10000 screens as the screen network grows without latency.	
02	Robust Business Continuity & Disaster Recovery Set-up	
03	Backup: Weekly Backup ,3 Month Backup will be kept	
04	Load Balancing Of Application Requests	
05	Security and network access Control	
06	99.00 % Uptime	
07	Server to be hosted in India	

Signature of the Vendor with Seal

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.NO	CONTENT MANAGEMENT SOFTWARE FEATURES	COMPLIANCE
1	The system should provide a consistent and easy to use solution with web based graphical user interface	
2	Cloud Based Solution: Sever to be hosted on the cloud and hence there is no downtime or limit on the no. of players on the network. Dedicated server on the cloud.	
3	Multi Level Role based user access : Administrator will have all the rights and he can create users/user groups and assign rights, user access can be provided for a player, group of players or each module like playlist creation, layout management, reports etc.	
4	Maker Checker: Different roles for content creator and content approver required. No content can be pushed without approvers consent	
5	Secured Content Download through HTTPS (443 Port) only. (No Unsecured/Unencrypted communication like FTP, Allowed	
6	Easy and intuitive interface for scheduling content on as per time, date, display, drag and drop templates, etc	
7	Divide your screen the way you want in to as many regions as required & populate images, videos, flash, etc in these regions using drag-and-drop interface	
8	Integration with Queue Management System possible without any modification in the current existing software- Additional Feature	
9	Group displays and schedule same content at once to all the displays in the group	
10	Show content in horizontal/vertical formats in any required aspect ratio and resolution.	
11	Supports content push from server & well as pull from the media player.	
12	Drag and Drop feature to create a playlist, modify the position of the files in the playlist.	
13	Content Support: Supports playback of most media formats as follows : Video Formats: wmv, avi, mpg, mpeg, flv, mov, mp4, mkv, vob, 3gpo Image Formats: jpg, bmp, png, gif, tiff, tifo Flash Format: swfo Text: Show static as well as scrolling text (Tickers)o Adobe: pdf	
14	Integrations with Social Media Feeds like Facebook, Instragram, Office's APIs,Streaming Services like Cricket or News Feeds, Live Video Streaming like Youtube Live, Facebook Live etc.	
15	Dynamic Data: Playback available for the following dynamic data Webcasting: Show feed of live events received via a streaming servers Embedded HTMLo Feed from microblog (Twitter) o Feed from any Webcamof RSS (Really Simple Syndication) Feed: Changeable interval based updating of RSS Feed	
16	Over the air Software and OS updates	
17	Centrally turn ON/OFF Displays (Can be scheduled or on demand through commands)	

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18	Centrally turn ON/OFF USB Ports / HDMI Ports / other Ports (Can be scheduled or on demand through commands)	
19	Smart Content Download : Schedule time to download content as per office guidelines, distribute bandwidth equally amongst connected displays for better bandwidth utilisation, Resume downloads in case of connectivity issues	
20	Smart Delete of content: Smart delete function deletes content which is not in use from media players. However, all the deleted files will be available for downloading.	
21	Inbuilt Media player	
22	CMS should throw dashboard notifications and send emails in case of:	
A	Display Offline in working hours	
B	Media Player Offline in working hours	
C	Content Not Downloaded for more than 24 Hours	
D	Server overload	
E	Hard disk space running out	
23	Default display in case of content not available	

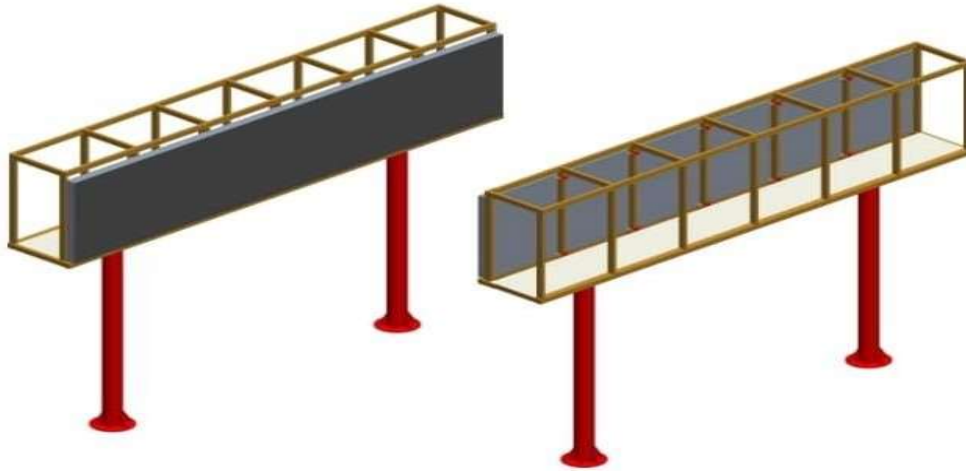| S.No:	Content Management Service	COMPLIANCE
1	Upload Content by vendor which is received from Team.	
2	Create Layouts and Customise them as per 's Requirements	
3	Schedule the layouts as directed by the Team	
4	Check Application Server.	
5	Check MYSQL Size (Log Files backup weekly once).	
6	Send Mail to Disconnected branches	
7	Send connected and disconnected branches list to Reporting Personals	
8	Provide Support to - Attend all Support Related calls from Branches	
9	Check version updated media players and add displays to display profile	
10	Send daily report to Dedicated Officials.	

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11	Create summary of all status on a Monthly Basis.	
12	Provide 4G Data dongle with Data Plan for each screen and connect screen to server (Dongle should draw power from the screen's USB port, additional AC power source for dongles will not be provided)	

BI-POLE

BI POLE Structure