



SUPPLEMENTAL BID BULLETIN No. 2

SUPPLY, DELIVERY, INSTALLATION & COMMISSIONING OF LED WALLS

After considering the queries, clarifications, recommendations and suggestions, the Bids and Awards Committee hereby amend the Technical Specifications.

All terms, conditions and instructions to bidders specified in the Bidding Documents inconsistent with this Bid Bulletin are hereby superseded and modified accordingly. Please use the following forms attached in this Supplemental Bid Bulletin.

Issued this 22nd day of March 2024.

(SGD) RADZATA A. ABDULGANI, PhD, JD
BAC – Chairperson

No	QTY	Unit	Description	Statement of COMPLIANCE
ONE (1) LOT SUPPLY, DELIVERY, INSTALLATION & COMMISSIONING OF LED WALLS				
1	2	Sets	COLLAPSIBLE OUTDOOR LED <ul style="list-style-type: none">• Location: CSU-Gymnasium• 2.5m(H) X 4m(W) ; 5 X 8 panels ; 500 X 500 mm per panel• MCTRL300 ; LVP615S VIDEO PROCESSOR, V40HD (1 SET ONLY)• Installation / structural / electrical• Type of installation : collapsible frame• Basic power box / control pc• Electrical add-ons (recommended security / safety)• Electrical : 20KVA AVR / delay timer / on off switch• Add-Ons : HC-X2000 Professional Camcorder W/ stand• With PVC collapsible cover for the LED Wall	
			Detailed Specifications (LED Wall)	
			Module	
			Dimensions (w x h) (mm)	250 X 250
			Pixel pitch	3.9
			LED Type	SMD 3in1 1921
			Resolution (w x h)	64 X 64
			Pixel Density	65,536/m ²
			Standard Panel	
			Dimensions (w x h x d) (mm)	500 X 500 X 80
			Physical Resolution (w x h)	128 X 128



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No	QTY	Unit	Description	Statement of COMPLIANCE
			Weight/Panel (kgs)	8.5
			Average Power/sqm (watts)	196
			Max Power/sqm(watts)	588
			Module Quantity	4
			Physical Pixels (total)	16384
			Material	DIE CASTING ALUMINUM
			Dimensions (w x h x d) (mm)	500 X 500 X 80
	2	Sets	Display Data	
			Panel Quantity(pcs) W x H	8 X 5
			Screen Area Dimension (W x H) m	4 X 2.5
			Screen Resolution(pixels)	1024 X 640
			Total Net Weight (kgs)	680
			Total Average Power/sqm(watts)	3920
			Total Max Power/sqm(watts)	11760
			Parameter	
			Brightness (nit)	4000
			Viewing Angle (H/V, °)	160/150
			Gray scale (bit)	14
			Minimum Viewing Distance (m)	3.9
			Contrast Ratio	4000:1
			Driving Type	1/16
			Color Temperature (K)	6500
			Refresh frequency (Hz)	3840
			Input power frequency (Hz)	50 - 60
			AC Operating Voltage (V)	200 ~ 240
			LED lifetime at 50% brightness	100,000 hours
			Ingress Protection (Front/Rear)	IP65/IP54
			Operating temperature(°C)	-10 ~ +40
			Operating humidity (RH)	10% ~ 90%
			Control distance	CAT5 cable: <80 m; Single mode fiber: <10 km
			Signal input format	AV, S-Video, VGA, DVI, YPbPr, HDMI, SDI
			Operating system	Windows (2000/XP/Vista/7/8/10/11)
			Item List	
			LED Panel	80 PCS
			Receiving Card	80 PCS
			Sending Box	2 PCS
			LED Software	1 SET
	2	Sets	VIDEO PROCESSOR <ul style="list-style-type: none"> Seamless switching, fade-in and fade-out switching, blend switching Take fast and seamless switching AIAO (Any in Any Out), arbitrary image 	



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			cropping <ul style="list-style-type: none"> • DVI EDID editable, perfect point-to-point display • Custom output resolution, up to 3840 horizontal pixels and 1920 vertical pixels • 4 sets of preset dual-picture (PIP/POP) display, high-definition subtitle display • Multiple DVI-LOOP cascade splicing, realize infinite screen driving • Front panel/USB/Lan/RS232 control, RS232 loop design, 1 PC control up to 255 devices <i>Console specification:</i> <ul style="list-style-type: none"> • Power supply: 100-240V AC 50/60HZ • Power consumption: ≤25W Operation Temperature: 0~45 °C	
	1	Set	MULTI-FORMAT VIDEO SWITCHER Input Jacks Video <ul style="list-style-type: none"> - HDMI Type A x 4 - RGB/Component – HD DB-15 type x 4 - Composite – BNC type x 4 Audio <ul style="list-style-type: none"> - ¼ inch TRS phone type x 1 pair Output Jacks Final output <ul style="list-style-type: none"> - HDMI type A x 2 - RGB/Component – HD DB-15 type x 2 - Composite – BNC type x 1 Preview output <ul style="list-style-type: none"> - HDMI type A x 1 Effects <ul style="list-style-type: none"> - Transition – Mix, Cut, Wipe (9 patterns) - Composition – Picture in Picture, DSK - Audio – Delay (0.0-12.0 frames) - Output fade (video/audio) Others <ul style="list-style-type: none"> - Power Supply – DC 12V - Current Draw – 2.6 A - Accessories – AC Adaptor, Power Cord, RCA-BNC conversion plug x 4, Owner's Manual 	
	1	Set	CONTROL PC <ul style="list-style-type: none"> • High- end commercial desktop (Intel core i5 or equivalent) • 8GB RAM • 1TB HDD Storage 	



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			<ul style="list-style-type: none"> 2GB discrete graphics card 1 set of keyboard and mouse 18.5inch display monitor Windows OS Professional Version 	
	1	Set	Professional Camcorder W/ stand <ul style="list-style-type: none"> Up to UHD 4K60 Video, 3G-SDI & HDMI Out 24x Optical Zoom, 48x Digital iZoom Handle with 2 XLR Inputs, LED Light 5-axis O.I.S., 3.5" LCD Touchscreen Wide 25mm Lens, 32x Intelligent 4K Zoom 1/2.5" 8.29M MOS Sensor, Venus Engine 120fps Slow Motion, Live RTP Streaming Manual Lens Rings & Dial, ND Filter Records MP4, MOV, AVCHD to Dual SD Cards Face Detection AF Feature 	
			INCLUSION <ul style="list-style-type: none"> SPARE PARTS: Led Module; Scanning Card; Power Supply TRAINING: User Operation And Basic Troubleshooting Trainings WARRANTY: replacement of defective led system parts only (2 years) / other included components (pc, video switcher and other peripherals (1 year) MAINTENANCE: quarterly preventive and corrective maintenance LED display (2 years) – FREE OF CHARGE 	
2	1	Set	OUTDOOR LED DISPLAY (CSU Advertisement Wall) 1m(H) X 2.5m(W) ; 1 X 5 panels ; 1000 X 500 mm per panel TB30 Media Player <ul style="list-style-type: none"> INSTALLATION / STRUCTURAL / ELECTRICAL Structural : Retrofitted Wall Mounted Electrical : Basic Power Box / Feederline 65m ELECTRICAL ADD ONS(SAFETY RECOMMENDATION) 5KVA Voltage Regulator, Industrial Switching System 	
			Detailed Specifications	
			INSTALLATION / STRUCTURAL / ELECTRICAL WORKS	
			Display	
			Cabinet Quantity (W x H)	2.5 x 1
			Screen area Dimension	4 x 2.5
			Screen Resolution	1024 x 640
			Total Net Weight	200
			Total Average Power	1200
			Total Max Power	2760
			Basic Parameters	



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No	QTY	Unit	Description	Statement of COMPLIANCE
			LED	LED 3.9
			Pixel Configuration	1R1G1B (SMD)
			Pixel Pitch(W/H)	3.9mm
			Pixel Density	65,536 pixel/m2
			Panel Size	500mm * 1000mm * pcs; 500mm *750mm * 8pcs
			Panel Resolution (W/H)	128 * 256 pixels & 128 * 192 pixels
			Weight	30kg/m2
			Optical Parameters	
			Brightness	4500-5000cd/m ²
			Visual angle	Horizontal: 140° Vertical: 120°
			Color temperature	3200-12000 (adjustable)
			Process Performance Parameters	
			Refresh rate	≥KHZ
			Changing rate	60KZ
			Processing depth	14bit
			Color	16384 * 16384 * 16384
			Driving mode	Constant current driving
			Electrical Parameter	
			Power Supply	AC230V±10%; 50HZ or 60HZ
			Power consumption	Average: ≤200w/m2 ; Max ≤680w/m2
			Other parameter	
			Control distance	CAT5 cable: <100m; Single mode fiber: <10000m
			Lifespan	100000h
			Working temperature	-20 to +40°C
			Working humidity	10% ~ 60 %
			Storage and transportation Temperature	-40 to +40°C
			Storage and transportation Humidity	10% - 60%
			Ingress protection (Front / Back)	IP65
			Installation	Fixed
			Maintenance way	Front
			Control mode	Synchronous control
			Signal input format	DVI
			Operating system	Windows (7/8/10)
			INSTALLATION / STRUCTURAL / ELECTRICAL WORKS	
			DESCRIPTION	SCOPE OF WORKS
			• Installation of LED	• General requirements



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			<div>Display with Collpasible Type Frame Structure</div> <ul style="list-style-type: none">Installation of LED Display With Retrofitted Wallmounted Type Frame Structure <div>• Structural works</div> <div>• Installation of led</div> <div>• Installation of power switching system</div> <div>• Installation of signal sytem</div> <div>• Electrical works (led internal)</div> <div>• electrical feeder line (50m/65m)</div> <div>Finishing and painting works</div>	
	Supplier Qualifications			
	Provision of the following:			
	<div>1. The supplier must secure that the spare parts should be available in the market for the next 5 years upon completion of the project.</div> <div>2. The supplier must conduct a hands-on training for 2 to 3 days upon completion of the project.</div> <div>3. The supplier must provide manuals, brochure of the product, or certification from the manufacturer that the specifications are true and correct.</div> <div>4. The supplier must provide a certification of the LED Manufacturer as one of the Top Listed Company in the country of origin which entitles the manufacturer to be a stable company that can support product spare parts for more than 5 years.</div> <div>5. The supplier must have a minimum of 12 years in the electronic billboard industry for the supply and installation of LED equipment to ensure company competence and stability for supports.</div> <div>6. The supplier LED Manufacturer must have a 5 Star Service Certificate for After – Sales Service of Commodity from their country of origin to show the legitimacy of the product and the company.</div> <div>7. The supplier must have at-least a minimum of 15 completed LED WALL installation both outdoor and indoor to show the legitimacy of the company.</div> <div>8. The supplier must provide at least five (5) Technical Support Engineers with a certification from the manufacturer that they are capable and certified engineers to do and install the equipment.</div> <div>9. The supplier must have personnel with the following qualification:</div> <div><div>❖ 1 senior PRC licensed Civil Engineer – at least 3 years tenure with the company</div><div>❖ 1 senior PRC licensed ECE - at least 4 years tenure with the company</div><div>❖ 1 PRC licensed civil engineer</div><div>❖ 1 PRC licensed electrical engineer</div><div>❖ 1 safety officer with COSH certification</div></div> <div>10. The supplier must have online ticketing portal for raising and tracking issues</div>			



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			<p>11. Must have technical personnel (on-call) to perform maintenance check assigned to the project.</p> <p>12. The supplier must submit Tax receipt of importation and custom clearance for the equipment upon project completion.</p> <p>13. The supplier LED Manufacturer must have International Electrotechnical Commission (IEC) certificate to ensure that the equipment have undergone rigorous safety testing and are safe to use and pass the (IEC) standard.</p> <p>14. The supplier LED Manufacturer must have ISO certificate to show the quality and legitimacy of the product and the company.</p> <p>15. The supplier must conduct an actual product demonstration during Post-Qualification.</p> <p>LED Specific requirements</p> <ul style="list-style-type: none"> • Brightness must not be lower than 4000 Nits (for outdoor use) • Must not exceed 8.5 kgs per cabinet (for easier setup/dismantling) • Capable of front and rear maintenance • Must have the latest control system • LED must have the CCC certification 	
			<p style="text-align: center;">TERMS AND CONDITION</p> <p>WARRANTY PERIOD (HARDWARE) Two (2) years warranty for led and one (1) year on digital signage, computer and other accessories on the date of delivery against manufacturing defects. During this period, defective parts shall be repaired or replaced free of charge provided such defects were not caused by accidents, neglect, abuse acts of god or nature, force majeure and/or failure to comply with pre specified environmental and electrical specifications.</p> <p>Inclusion of a two (2) years quarterly preventive maintenance of the units supported by a signed technical report.</p> <p>DELIVERY AND INSTALLATION Free delivery and inclusive of installation/commissioning, configuration and labor costs, after sales support</p> <p>TRAINING Free training for 2-3 days (led) for a minimum of 2 personnel.</p>	