

**MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LTD.,
EHV PC O&M ZONE, KARAD**

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CE/EHV PC O&M/ZONE/KRD/T/

NO 0282

Date :-

3 MAR 2021

Sub: Enquiry for Supply and installation of 65" interactive 4K LED Panel at the cabin of Chief Engineer EHV PC O&M Zone Karad.

Dear Sirs,

Please offer your reasonable rates for the Supply and installation of 65" interactive 4K LED Panel at the cabin of Chief Engineer EHV PC O&M Zone Karad, as per Schedule 'A' enclosed herewith.

- DUE DATE:** The quotations complete in all respects, duly sealed & super scribed should be submitted to this office on or up to **10.03.2021 till 16:00 hrs.**
- QUOTED RATES:** Rates should be inclusive of all taxes if any, i.e. GST etc. The taxes applicable if any should be quoted distinctly.
- VALIDITY OF OFFER:** The offer should be valid for our acceptance for a period of 60 days from the due date of opening.
- DELIVERY:** The material should be delivered to EHV PC O&M ZONE, KARAD within 15 Days from the date of the order.
- PAYMENT:** 100 % Payment will be made after delivery of material; subject to availability of funds.
- SECURITY DEPOSIT:** The Security Deposit @ 10% of order value should be paid by supplier in the form of B.G. or D.D. within 7 Days from the L.O.I.
- PENALTY FOR LATE DELIVERY:** If the material not delivered within stipulated time mentioned in the supply order; penalty @ ½ % per delayed week will be charged.
- If you are Manufacturer/Authorized Dealer, submit the related documents with quotation.
- Copy of GST registration certificate & PAN should be submitted with your offer.
- All terms & conditions of MSETCL's supply order will be applicable for the proposed supply of material.

The undersigned reserves the right to reject any or all quotations without assigning any reasons.

Thanking you,

Yours faithfully,

**Chief Engineer,
EHV PC O&M Zone, Karad**

Encl: 1. Schedule 'A'.

Copy To: -

- 1) A.G.Manger (F&A) EHV PC O&M Zone Karad.
- 2) Notice Board. M/F T

D:\JR\1. JR PURCHASE\1 Purchase Quotations\Supply Order\Supply of computers - Copy\Enquiry & Order

**MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LTD.,
EHV PC O&M ZONE, KARAD**

Schedule 'A'


Enquiry for Supply and installation of 65" interactive 4K LED Panel at the cabin of Chief Engineer
EHV PC O&M Zone Karad

Sr. No.	Particulars	Unit	Qty.	Rate Per Unit excluding taxes Rs.	Taxes GST @ 18% Rs.	Total amount including taxes Rs.
1	Supply of 65" interactive 4K LED Panel at the cabin of Chief Engineer EHV PC O&M Zone Karad	No.	01 No.			
2	Installation Charges	No.	01 No.			
Total amount including all taxes (1+2)						

PAN No. of Agency- _____

GST Reg. Certificate No. _____

Sign & Seal of Agency.


Chief Engineer,
EHV PC O&M Zone, Karad

Technical Specification for 65 inch Interactive 4k LED panel

Display	Display Technology Type		Backlit LED (IPS Panel)
	Panel Size		65"
	Brightness (Typical/Minimum)		330cd/m2 or better
	Contrast Ratio (Typical)		1,200:1 or better
	Native Resolution		4K Ultra-HD (3840 x 2160)
	Viewing Angle (H/V)		178/178 degree
	Aspect Ratio		16:09
	Response Time (MS)		8ms (Typ) or better
	Refresh Rate (Hz)		60Hz
	Estimated Life Time (Typical)		30,000 hours (Min)
	Display Color (Bit)		1.06 billion (10-bit)
	Orientation		Landscape
Interactivity	Touch Technology		Infrared Touch
	Touch Points	Writing	10 Points
		Touch	20 Points
	Accuracy		±2mm (Over 90% area) or better
	Response Time		<15ms or better
	Touch Resolution		32,767 x 32,767 or better
	Surface Protection		4mm Thick Toughened Glass (Level 7H on Mohs Scale of Mineral Hardness)
	Minimum Touch Object		Single-Touch 6mm and Multi-Touch 8mm
	Touch Tools		Finger, Stylus, Glove, Opaque Objects
	Gestures Supported		Use palm/hand back to erase/ Slide up from bottom to call out Touch Menu/Two fingers to call out floating toolbar. /Under PC:20 point touch, 10 point writing. Under Android, 10 point touch. 5 point writing
	OS Compatibility		Windows® (Windows 7 and above: Driver Free), Mac® (10.10 and above), Android™ (2.2/2.3/4.0/4.1/4.2 (Kernel v3.5 and above - Driver Free), Chrome (v39 and above), Linux (Kernal v3.5 and above)
Operating System	System Version		Android™ v6.0 or latest
	CPU		RK3399, Dual-Core ARM® Cortex® A72 and Quad Core ARM® Cortex® A53
	GPU		Mali™ T860
	RAM		4GB DDR3
	Internal Storage		16GB (eMMC Flash)
Connectivity	Input	Display	HDMI v2 (x1), HDMI v1.4 (x2), DisplayPort (x1), VGA-In (x1)
		Audio	Audio-In (3.5mm) (x1), AV-In (x1)
	Out	Display	HDMI-Out (1080P) (x1)

	Audio		Audio-Out (3.5mm) (x1), Coaxial-Out (RCA) (x1)
	Internet		LAN (RJ45) (x1)
	Control		RS232 (x1)
	USB	Front	USB 2.0 (x2), USB 3.0 (x1)
		Side	USB 2.0 (x1), USB 3.0 (x1), USB Type B (x2)(For Touch Port)
		Bottom	USB 2.0 (x1)
Expansion Modules (OPS)	Android Module (Slot 1)		Built-in (120pin)
	Windows PC Module (Slot 2)		Optional (120pin)
Audio	Internal Speakers		12W (x2) (Stereo)
Power	Power Supply (Internal)		AC 100-240V, 50/60Hz
	Consumption		300W or less
	Standby Mode		<0.5W (Standby)
Environmental Conditions	Operating	Temperature	0°C - 40°C (32°F - 104°F)
		Humidity	10% - 90%
	Storage	Temperature	-20°C - 60°C (-4°F - 140°F)
		Humidity	10% - 90%
Physical Characteristics	Dimensions (L x H x D)	Product	1,521 x 915 x 98 mm
		Net	47kg or less
	VESA Mounting (FPM/PMI)		4 - M8 x 25mm, 800 x 400mm (31.5" x 15.7")
	Weight		
Built-in Features	Mirroring for iOS Airplay®, Android™ Miracast, Windows® PC, Apple® macOS™, Google Chromebook™ –OS independent		
	Wireless facility with 802.11n/ac dual-band 2.4/5GHz support		
	Remote manager with IT management software with automatic discovery and configuration		
	Voting and polling functions		
	Connect up to 64 users simultaneously, and allow 4 people to present on one display		
Enhanced Usability features:	Remote meetings - LiveScreen function – allows Panel content to be streamed in real-time to other Panel or wireless collaboration devices.		
	Android Device support for Full Screen Mirroring via the Presenter App		
	Compatibility with productivity tools including Microsoft Office applications, PDF documents and many others.		
	Install applications directly from the App store, to personalize the Panel environment.		
	Google Classroom support – for Education & Training.		
Integrated Digital Signage	Complete integration of a flexible and easy-to-use digital signage content and management software – with easy content updates via wired, wireless networks or Cloud.		
	The display should be turned into active signage rather than remaining “passive” when the meetings are finished.		
	The signage can also be interactive, creating a more compelling and engaging environment for participants.		
Centralized Management & Security	Centralized Management functionality enables settings to be changed locally or remotely for added user convenience.		
	Mobile Device Management capability to enables IT departments to tightly manage device operations and maintenance.		
	Data security provided by AES-256 encryption.		