



शिवराज नगरपालिका

नगर कार्यपालिकाको कार्यालय

चन्द्रौटा, कपिलवस्तु
लुम्बिनी प्रदेश, नेपाल

पत्र संख्या : २०८३/०८४

चलानी नम्बर :

मिति : २०८३/०६/२१

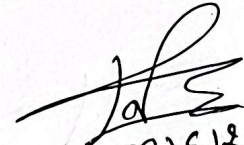
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विषय- दररेट निर्धारण प्रयोजनका लागि दररेट पेश गर्ने बारे ।

यस कार्यालयका लागि चालु आ.व. २०८३/०८४ मा शिवराज नगरपालिकाको चन्द्रौटा चोकमा LED Outdoor Display Board खरिद तथा जडानका लागि यसै सूचना साथ संलग्न सम्बन्धित प्राविधिकले तयार पारेको प्राविधिक स्पेसिफिकेसन अध्ययन गरि सो बमोजिमका सामाग्रीहरु प्रति एकाई के कति दररेटमा कार्यालयमा उपलब्ध गराउन सकिन्छ, यो सूचना प्रकाशन भएको मितिले ५ दिन भित्र दररेट निर्धारण प्रयोजनका लागि Quotation Format अनुसारको दररेट यस कार्यालयमा उपलब्ध गराईदिनु हुन सम्बन्धित सबैमा जानकारीको लागि यो सूचना प्रकाशन गरिएको छ ।


२०८३/०६/२१
पूरा बहादुर विश्वकर्मा
उप-सचिव

Technical Specifications & Requirements FOR LED DISPLAY SYSTEM

1. PROJECT OVERVIEW

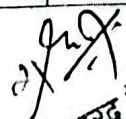
This tender invites quotations for the supply, installation, and commissioning of a complete LED Display System including display panels, control cards, and all necessary accessories

2. LED DISPLAY SPECIFICATIONS

Parameter	Specification
Type	Outdoor Full Color LED Display
Pixel Pitch	5.0 mm (P5)
Module Size	320 mm (W) × 160 mm (H) × 18 mm (D)
Resolution	64 × 32 pixels per cabinet
Pixel Density	40,000 dots/m ²
Brightness (nits)	≥ 5000 nits (at 5000 nits)
Contrast Ratio	≥ 5000:1
Color Temperature	2000 K to 14000 K (adjustable)
Viewing Angle	Horizontal 140°, Vertical 140°
Refresh Rate	3840 Hz
Grey Level	Up to 14 bit
Protection Level	IP65 (Front)
Power Supply	110 to 220 VAC ± 15%
Max. Power Consumption	≤ 500 W/m ² (at 5000 nits)
Average Power Consumption	≤ 170 W/m ² (at 5000 nits)
Operating Temperature	-20 °C to 50 °C
Seamless Stitching	Supports seamless image stitching in any direction without black lines
Maintenance	Back maintenance access
Size	15.75ft length* 9.45ft height
Cabinet material	960*960mm Iron cabinet

3. LED CONTROLLER / PROCESSOR SPECIFICATIONS

Parameter	Specification
Type	LED Display Controller / Processor
Video Input	1 × HDMI 1.3 input (1920 × 1080@60 Hz)
Output Interface	1 × RJ-45 network port for LED display connection
Max. Load Capacity	650,000 pixels (up to 2048 × 2048 maximum)
Frame Rate Adaptation	25 Hz to 60 Hz
Grey Level	256 levels (8 bit)
Display Color	16 million colors (16 MP)
Brightness Control	1 to 100 tunable (level-by-level white balance)
Refresh Rate Output	Up to 3840 Hz
System OS	Android 14 with 2 GB RAM and 32 GB storage
Audio Support	HDMI audio input and 3.5 mm audio output
Network Management	Web-based control interface and client software
Android app	Compatibility of installing third party android app
Remote Control	RF remote control support
Power Consumption	≤ 11 W (average)
Operating Temperature	-20 °C to 60 °C


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4. RECEIVING CARD / CONTROL CARD SPECIFICATIONS

Parameter	Specification
Type	Universal Receiving Card (HUB75E Interface)
Interface Type	HUB75E
Number of Ports	12 ports minimum
Max. Load Capacity	512 × 512@60 HZ per card
Grey Level	16 bit
Power Consumption	≤ 2.5 W
Input Voltage	DC 3.8 V to 5.5 V
Features	Light-by-light chromaticity correction, RGB independent Gamma adjustment, brightness and uniformity control
Operating Temperature	-20 °C to 60 °C

5. MANDATORY REQUIREMENT: BRAND COMPATIBILITY & SUPPORT

REQUIREMENT: The LED Display Panels, LED Controller, and Receiving Cards shall be of the same manufacturer/brand or as per project requirements and technical compatibility.

Rationale:

- Ensures complete compatibility and optimal system performance
- Allows selection of suitable components based on project requirements
- Ensures proper integration between Display, Controller, and Receiving Cards
- Provides reliable technical support and warranty coverage
- Facilitates long-term maintenance and spare parts availability

The vendor must clearly specify in their quotation the **brand and model of the Display, Controller, and Receiving Cards** and confirm that all selected components are fully compatible and suitable for the proposed LED Display system.

6. QUOTATION FORMAT

Bidders must provide quotations in the following format:

S.N.	Item Description	Brand & Model	Size	Quantity	Unit Price (Rs.)	Total (Rs.)
1	LED Display Panels (5.0mm Pixel Pitch, Outdoor)		15.75ft length, 9.45ft Height	1 Set		
2	LED Controller			1		
3	Receiving Cards (HUB75E,		Included in LED Display			
4	Power Cables, Signal Cables & Connectors			1 Set		
					Subtotal (Rs.):	
5	Foundation, Installation, ACP Cover, Testing & Commissioning				Installation Cost (Rs.):	
					Total Before Tax (Rs.):	
					VAT @ 13% (Rs.):	
					FINAL TOTAL (Rs.):	

[Signature]
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Note: Bidders must provide detailed installation cost breakdown including structure, metal fabrication, labor, and testing.

7. GENERAL REQUIREMENTS & DELIVERABLES

- All components must be new and unused
- All items must have valid manufacturer warranty documentation
- Professional installation by certified technicians
- Complete system testing and commissioning
- Power supply connection and electrical safety compliance
- 20 feet of high-quality power and signal cables included
- Minimum 3-year warranty on LED panels

8. WARRANTY & SUPPORT REQUIREMENTS

- Warranty Period: Minimum 3 years for LED display panels from installation date
- Coverage: Manufacturing defects and LED module failure under normal operating conditions
- Support: 24/7 technical support via phone, email, and on-site visits

10. IMPORTANT COMPLIANCE NOTE

All bidders MUST CONFIRM in their technical proposal that:

- ✓ All LED display panels, controller, and receiving cards are from the SAME manufacturer
- ✓ The vendor provides unified technical support for the entire system
- ✓ All components are compatible and pre-tested together before shipment
- ✓ Complete installation support and on-site training will be provided

Bids not meeting this requirement will be rejected.


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