

# PATNA SMART CITY LIMITED

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## SHORT TENDER NOTICE FOR DETERMINATION OF RATES

RFQ No: RFQ-10/MD/PSCL/2023-24

Dated:- 18.12.2023

Quotations are invited by Patna Smart City Ltd. for non-SOR Items, related to “*Dynamic Façade Lighting for external illumination of Biscomaun Bhawan & Park Infront of DM Residence*”, Latest by 17:00 hours on 28.12.2023. The detailed technical specifications uploaded on PSCL website [www.smartpatna.co.in](http://www.smartpatna.co.in) may be referred for details.

  
**Managing Director**  
Patna Smart City Ltd.

ज्ञापक.....731....., पटना, दिनांक-18/ 12 /2023 ई०।

प्रतिलिपि:- निदेशक, सूचना एवं जन-संपर्क विभाग को स्थानीय/ महानगरीय स्तर के हिन्दी एवं अंग्रेजी दैनिक समाचार पत्र के संस्करण में प्रकाशित करने हेतु समर्पित।

  
**Managing Director**  
Patna Smart City Limited

**SHORT TENDER NOTICE FOR DETERMINATION OF RATES**

**RFQ No: -10/MD/PSCL/2023-24**

**Technical Specifications:**

**Preferred Make: Bajaj/Philips/Crompton/Orient/Osram/Anchor/Panasonic/Equivalent**

<b>Sl.no.</b>	<b>Details</b>	<b>Unit</b>	<b>Rate(INR)</b>
1.	Supply of High power architectural RGB LED flood light with housing material of Die-cast aluminium, dark grey powder-coated finish, system wattage not exceeding 110W and system lumen output of not less than 3500 lumens. Fixture shall be available with architectural optics with choice of beam angles of narrow 10° medium 20° or wide 40° beam angles. Suitable for DMX/Ethernet. Fixture shall operate in a choice of beam angles of narrow 10° medium 20° or wide 40° beam angles. Suitable for DMX/Ethernet. Fixture shall operate in a temperature range of -10°C to 55°C. Fixture shall have input voltage for 220 - 240 VAC. Lifetime should be at least 50,000 burning hours at L70 with total IP66 protection. Fixture shall be equipped with mechanical impact of minimum IK06.	48	
2.	Supply of long-throw exterior RGB LED floodlight with housing material of Die-cast aluminium, powder-coated finish, system wattage not exceeding 140W and system lumen output of not less than 5500 lumens with native lens, Fixture should be available with architectural optics with choice of beam angles of narrow (Ranges 7° -15°), medium (Ranges 20°- 25°) or wide (Ranges 40° -50° or 60° - 70°) and asymmetric (5°-10° x 15°-20° lens). Suitable for DMX/Ethernet. Fixture shall operate in a temperature range of 10°C to 55°C. Fixture shall have input voltage for 100 – 277 VAC. Lifetime should be at least 50,000 burning hours at L70 with total IP66 protection. Luminaire Connections Integral male/female waterproof connectors. Fixture shall be equipped with mechanical impact of minimum IK06.	25	
3	Supply of long-throw exterior RGB LED floodlight with housing material of Die-cast aluminium, powder-coated finish, system wattage not exceeding 280W and system lumen output of not less than 11000 lumens with native lens, Fixture should be available with architectural optics with choice of beam angles of narrow (Ranges 7° -15°), medium (Ranges 20°- 25°) or wide (Ranges 40° -50° or 60° - 70°) and asymmetric (5°-10° x 15°-20° lens). Suitable for DMX/Ethernet. Fixture shall operate in a temperature range of 0°C to 40°C. Fixture shall have input voltage for 100-277 VAC. Lifetime should be at least 50,000 burning hours at L70 with total IP66 protection. Luminaire Connections Integral male/female waterproof connectors. Fixture shall be equipped with mechanical impact of minimum IK06.	5	
4	Supply of daylight-visible, exterior-rated RGB LED point of light ideally suited for a range of direct- view applications with housing material of Die-cast aluminium, powder-coated finish, system wattage not exceeding 25W and system lumen output of not less than 700 lumens with clear lens, Luminance in Nits 25,150 cd/m <sup>2</sup> , Fixture should be available with Viewing 125°. Suitable for DMX/Ethernet. Fixture shall operate in a temperature range of -10°C to 55°C. Fixture shall have input voltage for 100-277 VAC. Lifetime should be at least 50,000 burning hours at L70 with total IP66 protection. Luminaire Connections Integral male/female waterproof connectors. Fixture shall be equipped with mechanical impact of minimum IK10.	20	

5	Supply of Data formatting device specifically designed for luminaires operates on the same technology[single-cable line voltage operation] suitable for Power I/ p - 100-240V AC, 50-60 Hz, Max connected load-20A,Internal loss not to exceed -20W,Heat dissipation should be in the order of 10W max, Ambient temperature - 0°C- 50°C ,Data i/p interface - DMX / Ethernet ,Protection rating - IP 66 (Suitable for humid / raining locations),Input Voltage 100 – 277 VAC, auto-ranging, 50 / 60 Hz, Maximum Input Current 16.5 A, maximum load Current 16 A, Construction -Cast aluminium enclosure with slots for surface mounting.	2	
6	Supply of lighting protocol converter, which performs a range of lighting protocol conversions, including Ethernet lighting protocol to DMX512,MX512 to Ethernet and RS232 to Ethernet. Suitable for Wall-mounted, convert DMX-based power / data supplies with any Ethernet-based device. Protocol Converter works with the PoE-compliant switch or PoE injector offered by any OEM, or with any PoE-compliant switch or injector. Easy to use — Protocol Converter uses standard RJ45 connectors to connect to both DMX-based power/data supplies from Ethernet/DMX and PoE- compliant switches. Ultra-compact design- Protocol Converter weight should be ~ 0.2 kg and has a form factor of not more than 40 x 120 x 90 mm, Compatible with other PoE-compliant devices. Control- Ethernet:10BASE-T from any PoE- or IEEE 802.3afcompliant Ethernet switch. PoE injector required for use with non-IEEE 802.3af-compliant switches. Network Protocol: Bi-directional Ethernet/DMX512 communication Data Connector: RJ45 connectors for KiNET input and DMX512 output Operating Temperature: -10 to 55 °C, Humidity: 0 to 95%, non-condensing Certification: Class A, CE Certified Environment: Dry/Damp Location, IP40	1	
7	Supply of Content Program Controller specifically designed for author, configure, and control intricate LED light shows in multiple zones, Input Power- 100 to 240 VAC, auto-ranging, 50/60 Hz, Power Consumption 200 W maximum, Minimum supported LED Nodes 10,000, Network Data - Ethernet protocol, Housing- Aluminium enclosure, Connector/Cable (2) RJ45 ports, shielded Cat. 5e or better data cable.	1	
8	Supply, Installation, testing and Commissioning of architectural RGB LED floodlight with housing material of Die-cast aluminium, dark grey powder-coated finish, system wattage not exceeding 45W and system lumen output of not less than 1500 lumens. Fixture shall be available with architectural optics with choice of beam angles of Narrow 8°-12, Medium15°- 20d Wide 35°-40°. Suitable for DMX/Ethernet. Fixture shall operate in a temperature range of -5° C to 55 C . Fixture shall have input voltage for 220-240V AC. Lifetime should be at least 50,000 burning hours at L70 with total IP66 protection.	15	
9	Supply, Installation, testing and Commissioning of IP66 RGB LED Strip light with IP68, sealed with anti-UV polyurethane without color shifting and anti-UV aging. Lumen output from 450Lm/Mtr. for RGB .Product width 12mm, better color consistency for visual comfort .DC	40	

	24VDC, Class III for safety use Long lifespan 30K hrs. L70B50@35°C ,Lead cable (1000mm) with suitable numbers of clip,screw,end caps ,mounting tracks and waterproof connector.		
10	Supply, Installation, testing and Commissioning of LED Bollard luminaire with Die-cast, poly-carbonate diffuser, wattage not exceeding 18W, system lumen output-900lumen, Luminaire should be capable of operating at line voltage without any separate power supply from 100-277 V AC. Luminaire is sealed to IP65 protection. Luminaire should have Compact with option of no up-light, Colour temperature of 6500K with CRI-70 should be provided and shall include all necessary power cables, accessories and other allied equipment's as per site requirements complete.	30	
11	Supply, Installation, Testing and Commissioning of architectural LED recess round shape up light with housing material of frame of stainless trim, Cover material-tempered glass, system wattage not exceeding 18Watt and system lumen output of not less than 1800 lumens, CCT-3000K, CRI>70. Fixture shall be available with beam angles of 20°-25°, Luminaire should be suitable for 100- 240V AC. Lifetime should be at least 50,000 burning hours, IP67 protection. Working temperature range -5°C to 40°C and working humidity of Up to 95%. Fixture shall be equipped with mechanical impact of minimum IK10.	30	
12	Supply, Installation, Testing and Commissioning of Advance Technology Gobo Projector for special objects projections, Rated Voltage : AC 100-240V 50/60 Hz, Power factor : >0.93, Safety Class : Class-I, ESD Protection : IEC61000-4, Light Source : High Power LED, Light Source Life : >50000 hours, Beam Angle : 10°~40°, Rated Power : 150-200W, Housing Material : Aluminium Alloy & heat proof engineering plastic, DMX Channels : 10 Channels, Communication Protocol : USITI DMX512 (1990), Color : 7 colors + white color, rainbow effect, Rotating Gobo : 7 interchangeable glass gobos or metal gobos, Gobo Rotation : Rotate clockwise and anticlockwise at variable speed, Focus : Electric linear focus, Zoom : Electric linear zoom, Ingress Protection : IP65, Color Cooling : With rapid-speed fans, Projection Distance : 5~40M, Customized minimum 4 Gobo designs should be approved by PSCL.	1	

**TERMS & CONDITION:**

1. Quotations must be submitted on letter head with GST no with complete address of the firm and should be addressed to the **Managing Director, Patna smart City Limited, 4<sup>th</sup> Floor, ICC Building, SSP Campus, Gandhi Maidan Patna-800001 Bihar.**
2. The Quotation submitting firm need to submit the 'unit price rate'.
3. Price quotation must be inclusive of supply, installation, testing, commissioning and all other taxes/overheads and O&M for 5 years.
4. Quotations submitted by the bidder shall remain valid for 180 days.
5. PSCL reserves all right to except/reject any or all offer received at sole discretion without assigning any reasons, whatsoever.
6. Last date Submission of Quotation is **28.12.2023 (17:00 hrs).**
7. OEM Should have registered office in India from last 10 years.
8. OEM Must have Direct Service Centre in the State.
9. OEM Should have Valid GST Number in India.

  
**Managing Director**  
 Patna Smart City Limited