



CORRIGENDUM- 1

(NIT No.- 12/MD/PSCL/2023-24 dated 07.02.2024)

The prospective bidders for “Dynamic façade lighting for External illumination of Biscomaun Bhawan & Park in front of DM Residence under Smart City Mission” may take note of the following changes before submission of bids:

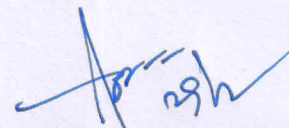
Sl No	Activity	As per RFP	Revised as
1	Pre-Qualification Criteria for Dynamic Light Fixture Manufacturer- sl. No-d	Lighting Company must have their own Lighting Content Management & Controls (LMS) System which should be > 5 years old for better integration, compatibility & serviceability. (Government/private order copy or certified BOQ of > 5 Yrs. old with LMS products needs to be submitted as a proof)	Lighting Company must have compatible Lighting Content Management & Controls (LMS) System which should be > 5 years old for better integration, compatibility & serviceability. (Government/private order copy or certified BOQ of > 5 Yrs. old with LMS products needs to be submitted as a proof)
2	Appendix 3 - Sl.no. 1	Supply of High power architectural RGB LED flood light with housing material of Die-cast aluminum, 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.	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 50°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

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Sl No	Activity	As per RFP	Revised as
			mechanical impact of minimum IK06.
3	Appendix 3 - Sl.no. 2	<p>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.</p>	<p>Supply of long-throw exterior RGB LED floodlight with housing material of Die-cast aluminum, 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 50°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.</p>
4	Appendix 3 - Sl.no. 4	<p>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/m², 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.</p>	<p>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/m², Fixture should be available with Viewing 125°. Suitable for DMX/Ethernet. Fixture shall operate in a temperature range of -10°C to 50°C. Fixture shall have input voltage for 100-277 VAC. Lifetime should be at least 50,000 burning hours at L70</p>

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			with total IP66 protection. Luminaire Connections Integral male/female waterproof connectors. Fixture shall be equipped with mechanical impact of minimum IK10.
5	Appendix 3 - Sl.no. 6	<p>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 802.3af-compliant 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 °Humidity: 0 to 95%, non-condensing Certification: Class A, CE Certified Environment: Dry/Damp Location, IP40</p>	<p>Supply of lighting protocol converter, which performs a range of lighting protocol conversions, including Ethernet lighting protocol 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 802.3af-compliant 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 Operating Temperature: -10 to 50 °Humidity: 0 to 95%, non-condensing Certification: Class A, CE Certified Environment: Dry/Damp Location, IP40</p>
6	Appendix 3 - Sl.no. 8	Supply, Installation, testing and Commissioning of architectural RGB LED floodlight with housing material of Die-cast aluminum, dark grey powder-coated finish,	Supply, Installation, testing and Commissioning of architectural RGB LED floodlight with housing material of Die-cast

Sl No	Activity	As per RFP	Revised as
		<p>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, Medium 15°- 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.</p>	<p>aluminum, 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, Medium 15°- 20d Wide 35°-40°. Suitable for DMX/Ethernet. Fixture shall operate in a temperature range of -5° C to 50C . Fixture shall have input voltage for 220-240V AC. Lifetime should be at least 50,000 burning hours at L70 with total IP66 protection.</p>
7	Appendix 3 - Sl.no. 8	<p>Supply, Installation, testing and Commissioning of architectural RGB LED floodlight with housing material of Die-cast aluminum, 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, Medium 15°-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 atleast 50,000 burning hours at L70 with total IP66 protection</p>	<p>Supply, Installation, testing and Commissioning of architectural RGB LED floodlight with housing material of Die-cast aluminum, dark grey powder-coated finish, system wattage not exceeding 50 W 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, Medium 15°-20d Wide 35°-40°. Suitable for DMX/Ethernet. Fixture shall operate in a temperature range of -5° C to 50 C. Fixture shall have input voltage for 220-240V AC. Lifetime should be atleast 50,000 burning hours at L70 with total IP66 protection</p>



Managing Director
Patna Smart City Limited



CORRIGENDUM- 2

(NIT No.- 12/MD/PSCL/2023-24 dated 07.02.2024)

The prospective bidders for “Dynamic façade lighting for External illumination of Biscomaun Bhawan & Park in front of DM Residence” may take note of the following changes before submission of bids:

Sl No	Activity	As per RFP	Revised as/Clarification
1	Date of Downloading of Bid Document	From 09.02.2024 to 02.03.2024 up to 1500 hours. Through website : www.eproc2.bihar.gov.in	From 09.02.2024 to 06.03.2024 up to 1400 hours. Through website : www.eproc2.bihar.gov.in
2	Last Date and time for uploading of bid.	Date: 02.03.2024 up to 1400 hours through website www.eproc2.bihar.gov.in	Date: 06.03.2024 up to 1500 hours through website www.eproc2.bihar.gov.in
3	Last Date and time for submission of hard copy of bid	Date: 02.03.2024, Time 1500 hours	Date: 06.03.2024, Time 1600 hours
4	Time & Date of opening technical bids	Date: 04.03.2024, Time 1600 hours	Date: 07.03.2024, Time 1600 hours


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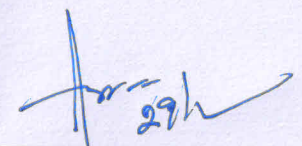
NIT no: 12/MD/PSCL/2023-24

Name of Work: Dynamic façade lighting for External illumination of Biscomaun Bhawan & Park in front of DM Residence under Smart City Mission

Sl No	Section	Clause as per RFP	Queries/Clarification	Reply
1	Pre-Qualification Criteria for Dynamic Light Fixture Manufacturer- sl. No-g	The offered luminaires must have passed LM-79 (from UL/CE/third party international lab/third party NABL lab), LM-80 (from LED OEM), IEC60598/IEC60950 (from UL/CE/third party international lab/third party NABL lab) for Dynamic lighting will be submitted. Soft Copy of Catalogues, Polar Diagrams, IES Files (pdf) of Luminaries for Dynamic lighting. Relevant BIS R Number certificates of the luminaries and controller submission is mandatory.	façade lighting products customised/ can we supply LM 79 Report at the time of supply.	As per RFP
2	Pre-Qualification Criteria for Dynamic Light Fixture Manufacturer- sl. No-k	All the Dynamic LED lighting fixtures & controllers shall be of same make to avoid integration, synchronization, and maintenance issues in future. The Data sheet of the programmer and controller shall be submitted by the bidder and prior approval must be taken from the engineer-in-charge for the same.	Light - Orient make but Controller make may differ / Technical data sheet will be shared.	As per RFP
3	Pre-Qualification Criteria for Dynamic Light Fixture Manufacturer- sl. No-d	Lighting Company must have their own Lighting Content Management & Controls (LMS) System which should be > 5 years old for better integration, compatibility & serviceability. (Government/private order copy or certified BOQ of > 5 Yrs. old with LMS products needs to be submitted as a proof)	DMX Controller make and lighting make may change but designed as per solution.	As per Corrigendum 1
4	DETAILED TECHNICAL SPECIFICATIONS FOR LIGHTING WORKS-Annexure 3.1-Sl.no. 5	Supply of Data formatting device specifically designed for luminaires operates on the same technology [single-cable line voltage operation] suitable for Power 1/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	is it necessary ?	As per RFP
5		Luminaires wattage & other parameters tolerance-10%- &- should allow as per	should allow	As per RFP
6	BOQ item 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 ² , 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.	should mention- IK07 and above/standard products	As per RFP

7	DETAILED TECHNICAL SPECIFICATIONS FOR LIGHTING WORKS-Annexure 3.1-Sl.no. 5	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, Medium 15°-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 atleast 50,000 burning hours at L70 with total IP66 protection	Should mention - IK07 and above/standard products	As per RFP
8	Appendix 3 - Sl.no. 1	9. Appendix 3 DETAILED TECHNICAL SPECIFICATIONS FOR LIGHTING WORKS SL. NO. 1	WATTAGE FIXED, LUMEN O/P FIXED. TEMP. RANGE OF PLUS 55 DEGREE	As per corrigendum 1
9	Appendix 3 - Sl.no. 2	9. Appendix 3 DETAILED TECHNICAL SPECIFICATIONS FOR LIGHTING WORKS SL. NO. 2	WATTAGE FIXED, DO NOT UNDERSTAND THE RANGE OF BEAM ANGLE. TEMP. RANGE OF PLUS 55 DEGREE	As per corrigendum 1
10	Appendix 3 - Sl.no. 3	9. Appendix 3 DETAILED TECHNICAL SPECIFICATIONS FOR LIGHTING WORKS SL. NO. 3	WATTAGE FIXED, LUMEN O/P FIXED. DO NOT UNDERSTAND THE RANGE OF BEAM ANGLE.	As per RFP
11	Appendix 3 - Sl.no. 4	9. Appendix 3 DETAILED TECHNICAL SPECIFICATIONS FOR LIGHTING WORKS SL. NO. 4	REASON FOR IK10, TEMP. RANGE OF PLUS 55 DEGREE. TEMP. RANGE OF PLUS 55 DEGREE	As per corrigendum 1
12	Appendix 3 - Sl.no. 6	9. Appendix 3 DETAILED TECHNICAL SPECIFICATIONS FOR LIGHTING WORKS SL. NO. 6	EVERY CONTROLLER AS PER OEM DRIVEN	As per corrigendum 1
13	Appendix 3 - Sl.no. 8	9. Appendix 3 DETAILED TECHNICAL SPECIFICATIONS FOR LIGHTING WORKS SL. NO. 8	OPERATING TEMPERATURE AND DO NOT UNDERSTAND THE RANGE OF BEAM ANGLE	As per Corrigendum 1
14	Appendix 3 - Sl.no. 9	9. Appendix 3 DETAILED TECHNICAL SPECIFICATIONS FOR LIGHTING WORKS SL. NO. 9	IP 68 IS OVER SPECIFIED	As per RFP
15	Appendix 3 - Sl.no. 10	9. Appendix 3 DETAILED TECHNICAL SPECIFICATIONS FOR LIGHTING WORKS SL. NO. 10	COLOUR TEMP OF 6500K OPERATING VOTAGE OF 100-277V	As per RFP
16	Appendix 3 - Sl.no. 11	9. Appendix 3 DETAILED TECHNICAL SPECIFICATIONS FOR LIGHTING WORKS SL. NO. 11	ASKED FOR 100 EFFICACIES AT 3000K	As per RFP
17	Technical Qualification criteria 4.5 (5) experience	The Bidders should have successfully completed within last 5 (Five) years ending on proposal submission date as a prime contractor. At least one similar work of value Rs. 61 lakh	We request to extend it to 7 years as per CVC norms	As per RFP
18	Technical Qualification criteria 4.5 (5) experience (subpart)	Note: Similar work shall include dynamic façade lighting of building, road work with smart lighting and landscaping work with lighting.	We request to incorporate electrical works like 33KV substation & OHE cable works	As per RFP

19	Appendix 3 - Sl.no. 4	<p>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/m², 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.</p>	<p>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 9W and system lumen output of not less than 400 lumens with clear lens., 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 IK06.</p>	As per RFP
20	Appendix 3 - Sl.no. 8	<p>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, Medium 15°-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 atleast 50,000 burning hours at L70 with total IP66 protection</p>	<p>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 50W 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, Medium 15°- 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 atleast 50,000 burning hours at L70 with total IP66 protection</p>	As per Corrigendum 1



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