

BIDDING DOCUMENT



THE PROCUREMENT OF

Street Light Installation in Hatti Prabhit Area (First Addendum Date- 2083/06/17)

National Competitive Bidding (NCB)
Single-Stage: Single-Envelope Bidding Procedure

Belbari Municipality Belbari Morang

Issued on: 2083/06/17

Issued to: All Eligible Bidders

Invitation for Bids No.:

NCB No.: -02

Contract Identification No.: - BM/MOR/W/NCB-02-2083/084



बेलवारी नगरपालिका

नगर कार्यपालिकाको कार्यालय
बेलवारी, मोरङ, कोशी प्रदेश, नेपाल।



बोलपत्र संशोधन तथा म्याद थप सम्बन्धी सूचना भूलसुधार

प्रकाशित मिति : २०८३/०६/१८

यस कार्यालयबाट "Street Light Installation in Hatti Prabhawit Area" सम्बन्धी कार्यका लागि Contract No.: BM/MOR/W/NCB-02-2083/084 को बोलपत्र संशोधन तथा म्याद थप सम्बन्धी मिति २०८३/०६/१७ गते गोरखापत्र राष्ट्रिय दैनिकमा सूचना प्रकाशित गरिएकोमा संशोधित लागत अनुमानित रु. १,७१,२१,१६२।७५ (भ्याट र पी.एस. बाहेक) हुनुपर्नेमा रु. १,७१,६७,३८७।९५ (भ्याट र पी.एस. बाहेक) भएको तथा बोलपत्र खोल्ने समय २०८३/०६/२८ गते दिनको १:०० बजे हुनुपर्नेमा बोलपत्र खोल्ने समय २०८३/०६/२७ गते दिनको १:०० बजे भएकोले भूलसुधार गरिएको व्यहोरा सम्बन्धित सबैको जानकारीका लागि सूचित गरिन्छ।

प्रमुख प्रशासकीय अधिकृत



बेलवारी नगरपालिका नगर कार्यपालिकाको कार्यालय

बेलवारी, मोरङ
कोशी प्रदेश, नेपाल



बोलपत्र संशोधन तथा म्याद थप सम्बन्धी सूचना

प्रकाशित मिति: २०८३/०६/१७

यस कार्यालयबाट "Street Light Installation in Hatti Prabhawit Area" सम्बन्धी कार्यका लागि Contract No.: BM/MOR/W/NCB-02-2083-084 को बोलपत्र आह्वान सम्बन्धी सूचना मिति २०८३/०५/२९ गते प्रकाशित गरिएको व्यहोरा सम्बन्धित सबैको जानकारीका लागि सूचित गरिन्छ।
उक्त बोलपत्रको Bill of Quantities (BoQ) मा रहेका केही आइटमहरूमा थपघट तथा आवश्यक प्राविधिक संशोधन गर्नुपर्ने देखिएको हुँदा सोही बमोजिम बोलपत्र कागजात तथा BoQ मा आवश्यक संशोधन गरिएको व्यहोरा सम्बन्धित सबै बोलपत्रदाताहरूलाई जानकारी गराइन्छ।
यसरी संशोधन गरिएको बोलपत्र कागजातअनुसार देहायबमोजिम बोलपत्र खरिद तथा पेश गर्ने म्याद कायम गरिएको छ।

क्र.सं.	विवरण	मिति तथा समय
१	बोलपत्र कागजात खरिद गर्ने अन्तिम मिति	२०८३/०६/२७ गते बेलुका ५:०० बजेसम्म
२	बोलपत्र पेश/दर्ता गर्ने अन्तिम मिति	२०८३/०६/२८ गते दिनको १२:०० बजेसम्म
३	बोलपत्र खोल्ने समय	२०८३/०६/२७ गते दिनको १:०० बजे
४	बोलपत्र खोल्ने स्थान	बेलवारी नगरपालिका
५	संशोधित लागत अनुमान	रु. १,७१,६७,३८७.९५ (भ्याट र पी.एस. बाहेक)

उपर्युक्त बोलपत्र खरिद तथा दर्ता गरिसक्नुभएका तथा खरिद गर्न इच्छुक सम्पूर्ण बोलपत्र दाताहरूले संशोधित बोलपत्र कागजात तथा संशोधित BoQ बमोजिम बोलपत्र तयार गरी तोकिएको मिति र समयभित्र यस कार्यालयमा पेश/दर्ता गर्नुहुन अनुरोध गरिन्छ। संशोधित बोलपत्र कागजात तथा संशोधित दायत यस कार्यालयबाट उपलब्ध गराउने व्यहोरा जानकारी गराइन्छ।
बोलपत्रका अन्य शर्त तथा प्रावधानहरूमा यस सूचनाद्वारा संशोधन गरिएको बाहेक अन्य व्यवस्था पूर्व प्रकाशित बोलपत्र सूचना तथा बोलपत्र कागजातमा उल्लेख भएबमोजिम नै कायम रहनेछ।
यस सम्बन्धी थप जानकारीका लागि यस कार्यालयमा सम्पर्क गर्न सकिनेछ।

प्रमुख प्रशासकीय अधिकृत

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इन्जिनियर

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Technical Specification of Street Light

S.no	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFER SPECIFICATION
1	Street Light	GPS mapping indicating Each individual light shall be carried out and payment made only after the gps map of Each individual light is properly recorded and submitted. <u>Light, Light should be associated with light arm and sensor</u> - Lighting Type: Street light LED with lenses. - Light: 1no - LED No: not less than 50 Led. - Input Voltage: 90-300 V AC. - Wattage: 50 Watts. - Color : Natural White. - Frequency: 50 Hz. - Power Factor: ≥ 0.95 at full load (240VAC) - PCB Thickness: 2mm. - PCB Size: 190mm/115mm Length. - LED type: OSRAM, Philips, Samsung or equivalent. - Total Harmonic Distortion(THD): $< 10\%$ (Maximum limit $< 15\%$ across operating voltage range) - Overall Efficiency: $> 88\%$ at nominal input power - Led Luminous Eff.: $> 120\text{lm/Watts}$ (Overall luminaire efficacy including driver loss) - System Resistance : 1.4 C/Watts. - Working Temp.: $15^\circ \sim 50^\circ\text{C}$. - Working Humidity: 10% to 90%. - Working Life: > 50000 Hrs. - LED Driver: 1500mA, 10KV x2 driver. - Current: 1500mA. - Switch: Day/ Night sensor Automatically On/Off. - Surge Protection: 10 KV. - Protection: IP66/IP65 Water & dust proof. - Body Material: Pressure Die Casted Aluminum and Glass type. - Certification: ISO certified, CE certified & ROHS certified, IEC, NS, LM, TM, EMC - Quality: M.S/ Rathi/ Philips/Surya/ Himstar or equivalent. - Warranty: 2 years (Replacement + Service). - Test report: LED & Driver.	

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 निजीय



Light

Lighting Type: Street light LED with lenses.
Light: 1no

LED No: not less than 100 Led.

Input Voltage: 90-300 V AC.

Wattage: 100 Watts.

Color: Natural White.

Frequency: 50 Hz.

- Power Factor: ≥ 0.95 at full load (240VAC)

PCB Thickness: 2mm.

PCB Size: 280mm/160mm Length.

LED type: OSRAM, Philips, Samsung or equivalent.

Total Harmonic Distortion (THD): $< 10\%$ (Maximum limit $< 15\%$ across operating voltage range)

- Overall Efficiency: $> 88\%$ at nominal input power
- Led Luminous Eff.: $> 120\text{lm/Watts}$ (Overall luminaire efficacy including driver loss)

System Resistance: 1.2°C/Watts .

Working Temp.: $15^\circ \sim 50^\circ\text{C}$.

Working Humidity: 10% to 90%.

Working Life: > 50000 Hrs.

LED Driver: 1500mA, 10KV x2 driver.

Current: 1500mA.

Switch: Day/ Night sensor Automatically On/Off.

Surge Protection: 10 KV.

Protection: IP66/IP65 Water & dust proof.

Body Material: Pressure Die Casted Aluminum and Glass type.

Certification: ISO certified, CE certified & ROHS certified, IEC, NS, LM, TM, EMC

Quality: M.S/ Rathi/ Philips/Surya/ Himstar or equivalent.

Warranty: 2 years (Replacement + Service).

Test report: LED & Driver.

Arm should be GI coated and length should be min. 1.5 to 3 ft as per site and site engineer instruction.

D-Iron/V-Shaped/Offset Pole Mounting Set with Shackle Insulator, Clamp & Connector: Supply and installation of complete hot-dip galvanized MS/GI mounting bracket for fixing 50 W LED light on existing NEA pole, including suitable D-shaped, V-shaped or offset bracket or any shape to suit existing pole holes, heavy-duty pole clamp, shackle insulator, connector, nuts, bolts, washers and all necessary accessories. The assembly shall be rigid, corrosion-resistant and suitable for the light and applicable wind load. One complete set per pole, including fabrication, transportation and installation, complete in all respects as directed by the Engineer.

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TECHNICAL SPECIFICATION OF LV AERIAL BUNDLED CONDUCTOR (ABC) XLPE CABLE

Specification: IS 14255:1995 & NEA Specification | Cable Description: 2C x 25 (1x25 + 1x25) Sq. mm

S.N.	Description of Goods / Items	Units	Specified Value (Sp. Value)
1.0	Number of Cores		
1.1	Power Core	No.	1
1.2	Neutral-cum Messenger Core	No.	1
2.0	Tests on Power Core Conductors		
2.1	Nominal Cross-Sectional Area	mm ²	25
2.2	Number of Strands		7
2.3	Diameter of Strands	mm	2.16 ± 1%
2.4	Diameter of Power Core Conductor	mm	5.90, min.
2.5	Conductor Resistance at 20°C	Ω/km	1.20, max.
2.6	Minimum Breaking Load of Power Conductor	kN	3.50, min.
2.7	Tensile Strength of Power Core Conductor	N/mm ²	100, min.
2.8	Diameter of Core	mm	8.30, min.
2.9	Minimum Insulation Thickness	mm	1.20, min.
3.0	Tests on Neutral Cum Messenger Core Conductor		
3.1	Nominal Cross-Sectional Area	mm ²	25
3.2	Number of Strands		7
3.3	Diameter of Strands	mm	2.16 ± 1%
3.4	Diameter of Neutral cum Messenger Core Conductor	mm	5.90, min.
3.5	Conductor Resistance at 20°C	Ω/km	1.38, max.
3.6	Minimum Breaking Load of Messenger Conductor	kN	7.0, min.
3.7	Diameter of Core	mm	8.30, min.
3.8	Minimum Insulation Thickness	mm	1.20, min.
4.0	General Properties of Insulation		
4.1	Min. Tensile Strength of Insulation	N/mm ²	12.5, min.
4.2	Min. Elongation at Break	%	200, min.
5.0	Volume Resistivity at room Temp. of 27°C	Ω-cm	1x10 ¹³ , min.
6.0	Hot Set Test (200°C at 15 min, M. Stress at 20N/cm²)		
	(a) Elongation Under Load	%	175, max
	(b) Permanent Elongation (set) after Cooling	%	15, max
7.0	Max. Shrinkage Test of Insulation	%	4, Max.
8.0	HV Test at room temperature at 3KV Ac for 5 minutes		Not fault
9.0	Approximate Weight of ABC Cable	Kg/KM	195
10.0	Overall diameter of ABC Cables	mm	

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Date - १६

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बेलवारी नगरपालिका
नगर कार्यपालिकाको कार्यालय
बेलवारी, मोरङ
कोशी प्रदेश, नेपाल

Drawing

The Successful Bidders shall Submit all Relevant (mainly light fitting arm and D-iron (LD-72)) Drawings within 7 days of the date of signing the contract and get Approved by the Purchaser.

Test

The Acceptance test shall be carried out by the contractor and witnessed by representatives from purchaser or its nominated inspectors on a sample of the lot offered for Acceptance. Before dispatching of materials Must submitted FAT (factory acceptance test) in the presence of witnessed by representatives

from purchaser or its nominated inspectors and all the expenditure for the testing of these items must be paid by contractors according to Relevant laws.



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Bill of Quantities

Revised B.O.Q.

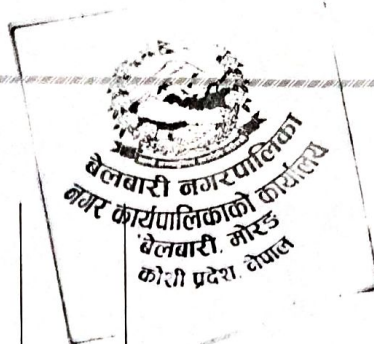
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बेलवारी, मोरङ
कोशी प्रदेश, नेपाल

S.N.	Description of Works	Unit	Quantity	Rate	Rate in Word	Amount	Remarks
A	Provisional Works						
1	Provide and instalation of project information Board 1.0x1.50m in iron posts including cost of excavation, M10 concrete for foundation, backfill and all other incidental work so as to complete the work as specified.	ps	1	5000		5000.00	
2	Provide and installation of Electric meter and all other incidental work so as to complete the work as specified.	Ps	50	5000		250000.00	
3	Provide insurance of works, materials, construction equipment and against accidents to work force including third party insurance all complete.	ps	1	51000		51000.00	nos
B	Construction Works						
	Supply, Delivery and fitting of Street Lights 100W with all complete and arm Accessories with BIS Approved (During fitting of street Light also provide 2 sq .mm of copper wire with PVC coated in Required Quantity).	Nos	60.000				
2	Supply, Delivery and fitting of Street Lights 50W with all complete and arm Accessories with BIS Approved (During fitting of street Light also provide 2 sq .mm of copper wire with PVC coated in Required Quantity).	Nos	1329.000				

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3	Supply, Delivery and fitting of 25 Sq.mm 2 core Power Cable (ABC) Aluminium conductor unarmored with all complete Accessories as per Specifications and Drawing(Stringing of cable as per site Engineer)	Rm	38288.160				
4	Supply, Delivery and fitting of 16 Sq.mm concentric cable with all complete Accessories as per Specifications and Drawing (Stringing of cable per site engineer)	Rm	19600.000				
5	Supply, Delivery and fitting of Accessories(Wire 10 sq. mm copper wire with PVC coated and Nut bolt) & Controller Panel board set (Aviation Light Sensor 32A, Dp MCB, Controller Chanel) this aspects must full fill these items (MCCM,MCB,TIMER,OR SENCER,CONTRILER CHANEL) NS,ISO,ISI.	Nos	50.000				
6	D - iron set with shakle insulator including iron clamp and connector (In one street Light Connection containa 2 Nos of Connector	Nos	1200.000				
7	Installation of 9m ht electric pole with excavation, soling, pcc including transportation by municipality all complete.	Nos.	10.000				
Construction Works							
PS Works							306000.00
VAT 13 %							
Total With VAT and PS							

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