



एनर्जी एफिशिएंसी सर्विसेज लिमिटेड  
विद्युत मंत्रालय के सार्वजनिक क्षेत्र के उपक्रमों की संयुक्त उद्यम कंपनी  
**ENERGY EFFICIENCY SERVICES LIMITED**  
A JV of PSUs under the Ministry of Power

## Addendum No.-1

Ref: **EESL/Lighting/IDC Material/Odisha/2021-22/SLNP/212201075/Addendum**

Date: 25-01-2022

To,  
M/s .....  
.....

SUB: Addendum in Amendment No. 1 against NIT/Bid Document No.: **EESL/Lighting/IDC Material/Odisha/2021-22/SLNP/212201075, Date: 13-01-2022** for “Design, Manufacture, Supply, Testing, Installation of LED Street Light and IDC Material (including Transportation, loading & Unloading) suitable to develop dedicated Street Lights phase wire infrastructure in ULBs of Odisha State under SLNP along with 4-year on-site warranty & maintenance of the Developed Infrastructure”.

References:

1. **EESL NIT No: EESL/Lighting/IDC Material/Odisha/2021-22/SLNP/212201075, Date: 13-01-2022, E tender ID- 1879**
2. **Amendment No-1 dated – 24.01.2022**

Dear Sir/Madam,

Following Annexures in Amendment No-1 has been incorporated.

पंजीकृत कार्यालय: एन. एफ. एल. बिल्डिंग, पाँचवा और छठा तल,  
कोर - 3, स्कोप कॉम्प्लेक्स, लोधी रोड, नई दिल्ली - 110003  
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CIN: U40200DL2009PLC196789

GSTIN: 07ACCE4248H1ZQ

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User ID: rkamal  
Serial No.: 1451016  
PE: pran.saurabh(Pran Saurabh)  
Date: 25-01-2022

	<b>TECHNICAL SPECIFICATION</b>	
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**TECHNICAL SPECIFICATION FOR INSULATION PIERCING CONNECTORS, ANCHOR (DEAD END) & SUSPENSION ACCESSORIES & OTHER ACCESSORIES FOR AERIAL BUNCHED CABLES FOR WORKING VOLTAGE UPTO AND INCLUDING 1100 VOLTS**

**1.0 SCOPE**

This specification covers the design, manufacture, assembly, testing and supply of Accessories for anchoring, suspending & making connections to Aerial Bunched Cables rated 1100 volts and insulated with cross-linked polyethylene.

**2.0 STANDARD**

The design, performance and test requirements shall confirm to this specification and the following standards. However in case of any conflict, the requirements of this specification shall prevail.

λ	NFC 33-020	Insulation Piercing Connectors
λ	NFC 33-209	LV Aerial Bunched Cables
λ	NFC 20-540	Environment Testing for Outdoor
λ	NFC 33-004	Electrical Ageing Test
λ	NFC 33-040	Suspension Equipments
λ	NFC 33-041	Anchoring Devices
λ	IS 14255	LV Aerial Bunched Cables

The Devices shall also be compatible with the cables of sizes & dimensions as defined in the Cable Specifications for the cables with which they are intended to be used.

**3.0 CLIMATIC CONDITIONS**

For the purpose of designing the climatic conditions as specified in annexure-1 shall be considered.

**4.0 CABLE DATA**

The standard sizes and characteristics of the phase and street lighting conductors, messenger wires shall be as specified in IS : 14255-1995.



## Annexure-B

Sr. No.	Zone	ULB Name
A	B	C
1	Zone-3	Sundargrh
2	Zone-3	Rajgangpur
3	Zone-5	Soro
4	Zone-1	Raygada
5	Zone-4	Khordha
6	Zone-4	Jatni
7	Zone-4	Balugaon
8	Zone-4	Banpur
9	Zone-1	Jaypore
10	Zone-3	Birmitrapur
11	Zone-5	Bhadrak
12	Zone-5	Jaleswar
13	Zone-5	Nilagiri
14	Zone-2	Odagaon
15	Zone-2	Nayagarh
16	Zone-1	Koraput
17	Zone-4	Choudwar
18	Zone-4	Banpur
19	Zone-3	Jharsuguda
20	Zone-3	Brajrajnagar
21	Zone-3	Belpahar
22	Zone-1	Malkanigiri
23	Bargahr Dist.	Bargarh
24	Zone-2	Boudh
25	Zone-4	Kendrapada
26	Zone-1	Sunabeda
27	Zone-2	Kesinga



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User ID : rkamal  
Serial No : 1451016  
PB : pran.saurabh@pran Saurabh)  
Date : 25-01-2022

## 1. Infrastructure Components:

- a. **Bracket/Arm/Clamps:** Bidder has to ensure that arm angle is such that maximum level can be achieved on the roads. In case these items are not available at existing locations or if existing Bracket/Arm/Clamps are defective, the same are to be supplied, installed, dismantled and maintained for contract period by successful bidder.

Bidder is responsible for all the Bracket/Arm/Clamps existing or replaced for contract period; and shall be asked to replace the same if found inappropriate during the contract period. Any cost needs to be borne by bidder.

**Note:** Payment for IDC items to be on actuals as per rate table given below and NOT to be loaded in the installation/Repair and maintenance rates of the Lights. Verification of IDC quantity installed is to be carried out by bidder from EESL representative and ULB at the same time as the verification of lights in the same document.

## b. Bi- Metallic Connectors.

The bidder for installation of each light must use bi-metallic connectors. (Cost to be built into the bidder's rates). No separate payment shall be made for these items.

Bidder to make all necessary arrangements to ensure that complaints generated due to loose connections, bimetallic corrosion (caused by consistent presence of moisture) does not arise. Usage of bimetallic connector with protection against moisture is mandatory. Installations carried out without bi-metallic connectors or with feeder/jumper wire having joints shall be considered not installed & penalty of INR 1000 per such wrong installation shall be levied on the bidder.

In addition to the above-mentioned quantity, the same are to be supplied, dismantled, installed and maintained as per the unit rates mentioned in the table subject to verification by ULB and EESL representative of the quantities installed.

EESL IDC Rates			
Sr. No.	Nature of Supply	Item Description	Rates in Rs. (Excluding GST)
1	Supply	Supply of Arms of GI Pipe of size 20mm/25mm dia (inner Dia of pole arm) B class 4 feet long bent medium grade 25 mm width 5mm thick MS clamps set 2 Nos. with 3/8th Nut and for fixing of GI pipe in various sizes suitable to RCC/ MS poles as per relevant standard specifications	324.50
	Labour	Labour Charges	86.95
2	Supply	3C x 2.5 sq.mm Copper conductor flexible cable. Per meter rate as per latest IS standards of make Universal/ Finolex/ Polycab/KEI or technically equivalent.	54.77
	Labour	Labour Charges	2.61
3	Supply	1C x 1.5 sq.mm PVC insulated, Aluminum conductor flexible cable. Per meter rate as per latest IS standards of make Universal/Finolex/ Polycab/ KEI or technically equivalent.	4.73
	Labour	Labour Charges	2.61
4	Supply	1C x 1.5 sq.mm Copper conductor flexible cable per meter rate as per latest IS standards of make Universal/Finolex/Polycab/ KEI or technically equivalent.	7.39
	Labour	Labour Charges	2.61



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 D, C=IN  
 User ID : rkamal  
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5	Supply	2C x 2.5 sq.mm PVC insulated, Aluminium <sup>11</sup> SEPC conductor flexible cable. Per meter rate as per latest IS standards of make Universal/Finolex/Polycab/ KEI or technically equivalent.	14.58
	Labour	Labour Charges	2.61
6	Supply	32 mm Dia (inner Dia of pole arm) x 2 meters long G.I Pipe (medium class) POLE ARM/bracket for mounting of LED Street lighting fitting on pole including bending the pipe to required shape (90-105 degrees), 2 nos. 40 mm x 3 mm flat iron clamps with Nuts, Bolts & Washer, GI coating/Painting the flat iron with primer and finish paint as per relevant standard specifications.	399.55
	Labour	Labour Charges	266.37
7	Supply	Supply & Installation of reducer of GI for oversized pole arms, Class B medium grade	116.45
	Labour	Labour Charges	43.48
8	Supply	Supply & Installation of 3 Way Connector	12.17
	Labour	Labour Charges	8.11
9	Supply	40 mm Dia (inner Dia of pole arm) x 2 meters long G.I Pipe (medium class) POLE ARM/bracket for mounting of LED Street lighting fitting on pole including bending the pipe to required shape (90-105 degrees), 2 nos. 40 mm x 3 mm flat iron clamps with Nuts, Bolts & Washer, GI coating/ Painting the flat iron with primer and finish paint as per relevant standard specifications.	438.00
	Labour	Labour Charges	292.00
10	Supply	Supply and fixing of GI/MS/FRP pole junction box including clamps, bolts, GI/Painting, glands, DIN rail, terminals, insulation, locking arrangement and for providing connection to incomer cable and outgoing wire including labour, transportation, taxation (per set)	584.00
	Labour	Labour Charges	389.00
11	Supply	Supply and fixing 6 A MCB along-with providing connection as per relevant IS in each pole junction box of standard make like L&T/ Siemens, Havells/ Indo Asian etc. (per set)	97.33
	Labour	Labour Charges	64.89
12	Supply	Supply of Arm 32 mm Dia (inner Dia of pole arm) x 4 feet (1.2 meter) long G.I. Pipe (medium class) POLE ARM/bracket for mounting of LED Street lighting fitting on pole including bending the pipe to required shape (90-105 degrees), 2 nos. 40 mm x 3 mm flat iron clamps with Nuts, Bolts & Washer, GI coating/ Painting the flat iron with primer and finish paint as per relevant standard specifications.	376
	Labour	Labour Charges	200
13	Supply	Supply of 2C x 10 sq.mm PVC insulated flattened Aluminium cable as per latest IS standards of make Universal/Finolex/Polycab/ KEI or technically equivalent.	36
	Labour	Labour Charges	6
14	Supply & Labour	6A Switch with Gang Box	26.56
15	Supply & Labour	Piercing Connectors on LT AB cables at pole top height to make proper tap-off connections –Main cable size: 16-35 sq.mm, Tap cable size: 1.5-2.5 sq.mm. Brass teeth, Nylon body with Gel.	60



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User ID : rkamal  
Serial No : 1451016  
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Date : 25-01-2022

Rest all the terms and conditions of the RfP and subsequent amendment (if any) remains unchanged.

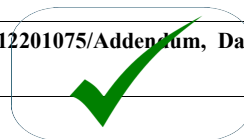
Thanking You,

EESL

For and on behalf of

Sd/-  
Engineer (SCM)

Ref: EESL/Lighting/IDC Material/Odisha/2021-22/SLNP/212201075/Addendum, Date 25.01.2022



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User ID : rkamal  
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