



**NEW AND RENEWABLE ENERGY DEVELOPMENT CORPORATION OF
ANDHRA PRADESH LIMITED (NREDCAP)
(A State Government Company)**

Regd.Office:# 12-464/5/1, River Oaks Apartment, CSR KalyanaMandapam Road,
Tadepalli, Guntur District, Pin : 522 501.Email: info@nredcap.in,
pdse@nredcap.in

Ref: NREDCAP/EC/LED St. Lights/RC Rates/01/2023-24

Date: 12.07.2023

EXPRESSION OF INTEREST

Expression of Interest (EOI) is invited for empanelment of suppliers and finalization of rate contract prices for supply of LED Street Lights, LED Flood Lights, poles, cables and erection etc., with two years guarantee in the State of Andhra Pradesh. The approved Brands/Makes in Standard Schedule Rates (SSR) of Andhra Pradesh Govt., for the year 2023-24 shall be supplied.

The suppliers shall have 3 years experience in supply & installation of LED Street Lights/Solar Off-Grid Systems. The minimum cumulative turnover is Rs.3.00 Crore during the last 3 financial years i.e. from 2020-21 to 2022-23. The suppliers have not been black listed at any time by NREDCAP as well as any of the Govt. Nodal Agencies in the country. The Registered suppliers under Solar Off-Grid systems/LED Street Lights with NREDCAP for the year 2022-23 are only eligible to participate in the Expression of Interest.

The District Managers of NREDCAP will generate demand with the help of empanelled suppliers under LED Street Lighting programme and submit indents to Head Office by recommending the supplier for allotment of the works.

The interested applicants fulfilling the eligibility criteria shall submit their sealed financial quotations in the formats enclosed with required documents and an non-refundable Application fee of Rs.15,000/- plus 18% GST (Rupees Fifteen thousand only) in the form of Demand Draft in favour of NREDCAP on or before **21.07.2023**.

**Sd/-
VC & Managing Director**

TERMS AND CONDITIONS

1. The rates quoted in the financial offer shall be exclusive of GST and inclusive of supply & transportation to anywhere in the State of Andhra Pradesh. The installation charges shall be quoted separately excluding the GST.
2. The filled in document together with all enclosures shall be submitted in a sealed cover super scribing “**Financial Offer for empanelment of suppliers and finalization of rate contract prices for supply & installation of LED Street Lights, LED Flood Lights, poles, cables and erection etc.,**”.
3. The specifications are as per Financial Offer.
4. Good quality components should be supplied. In case, if it is found that materials are not as per specifications, such components are to be replaced at free of cost.
5. All the LED Street Lights & LED Flood Lights along with poles, erection, cables etc., should be guaranteed for a period of two years from the date of commissioning against all defects.
6. The empanelled suppliers shall generate demand and submit the specific indents along with payments to Head Office through our District Manager so as to award the works.
7. The price quoted in the financial offer is exclusive of NREDCAP Service charges.
8. The Rate Contract Price finalized is valid up to 30.06.2024 and it may extend further on specific approval of the competent authority.
9. The VC & Managing Director may relax any of the conditions for valid reasons and the decision of VC & Managing Director is final and binding.

Sd/-

VC & Managing Director

APPLICATION

1. GENERAL PARTICULARS OF SUPPLIER

SL.	PARTICULARS	TO BE FUNISHED BY THE SUPPLIER
1	Name of Supplier/Firm	
2	Postal Address	
3	E-mail address for communication	
4	Telephone/FaxNo.	
5	Nature of the firm (Individual/Partnership/ Consortium/Pvt. Ltd/Public Ltd. Co./Public Sector, etc.) Attach attested copy of registration & Partnership deed/ Memorandum of Association.	
6	Name, designation, address, contact number and Email of the authorized representative of the Supplier to whom all references shall be made. (Copy of the Authorization letter to be enclosed)	
7	PAN No. (Copy of certificate to be enclosed)	
8	GST No. (copies of certificates to be enclosed)	
9	Amount and particulars of the Application fee.	DD No. _____ Dt: _____ for Rs. _____ of _____ Bank
10	Cumulative Turnover for last three years i.e 2020-21 to 2022-2023 (enclose CA certificate)	
11	Experience in the last 3 years in LED Street Lights/Solar Off-Grid Systems. (enclose completion reports)	

12	Enclose NREDCAP registration certificate issued under Solar Off-Grid/LED Street Lights for the year 2022-23.	
13	Has the Supplier/firm ever been debarred by any institution for undertaking any work?	
14	Any other information attached by the Supplier.	

Date:

Signature of the Supplier with Stamp

Note: All pages of the Application shall be organized section-wise, annexed with proof documents, serially numbered and stitched/or spiral bound intact and submitted. Loose pages shall not be accepted.

FINANCIAL OFFER

S.No	Description	Unit	Price (Rs)
1	2	3	4
	LED Street Light		
1	<p>Supply and transportation of LED Street Light Luminaire made of pressure diecast aluminum body with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having System efficacy > 100 lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, In house additional Surge protection 10 KV with optics distribution, THD< 10%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete and the Makes & Brands should be as below.</p> <p>a) LUMINAIRE MAKE : Wipro(Skyline) / Philips (Green line) / GE-Venture / Crompton(Neo Series) / Bajaj (Edge) / Halonix(Lumos - Super) / Havells (Endura Series) /Capart(Premium)/Greenlites(Hi-Lux) /Polycab/Keselec/HPL(City Vision)/ Jaquar(Premium)/Eveready/ Surya (Pollux) / FortuneArrt (Leaf)</p> <p>b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA/OSRAM/ SAMSUNG / LG</p>		
a	20W LED Street Light	1 No	
c	30W LED Street Light	1 No	
d	35W LED Street Light	1 No	
e	45W LED Street Light	1 No	
f	50W LED Street Light	1 No	
g	60W LED Street Light	1 No	
h	70W LED Street Light	1 No	
i	75W LED Street Light	1 No	

2	<p>Supply and transportation of LED Street Light Luminaire made of pressure diecast aluminum body with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having System efficacy > 110 lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), Driver surge protection 4KV, In house additional Surge protection 10 KV with optics distribution, THD<10%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete and the Makes & Brands should be as below.</p> <p>a) Luminaire Make : Wipro(Skyline) / Philips (Greenline Extra) / GE- Venture / Crompton(Nexus / Hawk series) / Bajaj (Edge)/ Halonix (Modular/ Lumos-Super) / Havells (Endura Series)/Greenlites(HI-Lux) /Capart(Premium)/Polycab/Keselec/ HPL(City Vision)/Jaquar (Premium) /Eveready /Surya (Pollux)/ Fortune Art (Leaf)</p> <p>b) LED MAKE :PHILIPS LUMILEDS / CREE / NICHIA/OSRAM/SAMSUNG / LG.</p>		
a	90W LED Street Light	1 No	
b	100W LED Street Light	1 No	
c	120W LED Street Light	1 No	
d	125W LED Street Light	1 No	
e	150W LED Street Light	1 No	
	LED Flood Light		
1	<p>Supply and transportation of LED Flood Light Luminaire made of pressure diecast alluminium housing with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's System efficacy >100 lm/W and junction temperature < 70°C, with Ingress protection IP66, Luminaire performance complies to IS 10322 (Part 5 / Sec-3), IK05, Driver surge protection 4KV, In house additional Surge protection ≥ 10KV with wide/ Narrow beam optics, THD<10%, CCT: 3000K - 5700K, minimum CRI>70, etc., complete and the Makes & Brands should be as below.</p> <p>a) LUMINAIRE MAKE : Wipro / Philips/ GE-Venture / Crompton/ Bajaj/Greenlites / Havells/Capart(Premium) /Halonix/ Polycab/ Keselec/HPL/Jaquar/Eveready / Surya (Lumasmax / O Flood) / FortuneArrt (Fin)</p> <p>b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.</p>		

a	50W LED Flood Light	1 No	
b	100W LED Flood Light	1 No	
c	120W LED Flood Light	1 No	
d	150W LED Flood Light	1 No	
	LED TUBE LIGHTS		
1	Supply and fixing of 20W, 2000 lumens T8, not less than 1100 mm length LED retrofit tube light with alluminium anodized body, input voltage AC 220 - 260 Volts with PF>0.9, Surge protection: 2KV,THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 5700K, minimum CRI>70, etc., complete and the Makes & Brands should be as below. a) LUMINAIRE MAKE : Phillips / GE- Venture / Crompton /Wipro/ Bajaj/Havells/Halonix/Jaquar/HPL/GM/Green Lites/Gold Medal/Eveready b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG.	1 No	
	G.I Brackets		
1	Manufacture, Supply and Delivery of 1.5” dia 3 feet length G.I Brackets with clamps, bolt and nuts suitable for fixing of LED Street Lights including cost of material, fabrication charges, transportation and labour charges etc Complete as directed by the Engineer-in-Charge.	1 No	
2	Supply and Delivery of 3/20 VIR Aluminum Wire Coils of 90 RM of approved make including cost and conveyance etc complete.	1 No	
	DECORATIVE DRAGON TYPE BRACKET WITH POLE		
1	Fabrication, Transportation and supply of hot-dip galvanized Octagonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180KMPH for 9 Mtrs Mounting height Pole having dimensions Bottom 185 mm,. Top 70mm with 3mm thick, base plate 275 x 275 x 20mm and 4 Nos of M24 x 1000 long 'J' bolts along with templates. Including Supply of 1.5M Dragon type decorative and the Makes & Brands should be as below. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/Skipper/Consoul		

	i) Galvanized double arm with PU Painted bracket.	1 No	
	ii) Galvanized Single arm with PU Painted bracket	1 No	
	iii) Double arm Galvanize Finished bracket	1 No	
	iv) Single arm Galvanize Finished bracket	1 No	
OCTAGONAL POLE			
1	Fabrication, Transportation and supply of hot-dip galvanized Octagonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with Hinged door opening arrangement, including the supply of suitable boards with bakelite sheet as per IS specification suitable to withstand the wind speed of 180 KMPH for 7.5 Mtrs height Pole having dimensions Bottom 130 mm., Top 70mm with 3mm thick, base plate 220 x 220 x 12 mm and 4 Nos of M20 x 700 long 'J' bolts along with template and the Makes & Brands should be as below. Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/ Skipper/Consoul	1 No	
2	Fabrication, Transportation and supply of hot-dip galvanized Octagonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with Hinged door opening arrangement, including the supply of suitable boards with bakelite sheet as per IS specification suitable to withstand the wind speed of 180 KMPH for 9 Mtrs height Pole having dimensions Bottom 155 mm., Top 70mm with 3mm thick, base plate 260 x 260 x 16mm and 4 Nos of M24 x 750 long 'J' bolts along with template and the Makes & Brands should be as below. Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/ Skipper/Consoul	1 No	
3	Fabrication, Transportation and supply of hot-dip galvanized Octagonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with Hinged door opening arrangement, including the supply of suitable boards with bakelite sheet as per IS specification suitable to withstand the wind speed of 180 KMPH for 10 Mtrs height Pole having dimensions Bottom 175 mm., Top 70mm with 3mm thick, base plate 275 x 275 x16mm and 4 Nos of M24 x 750 long 'J' bolts along with template and the Makes & Brands should be as below. Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/ Skipper/Consoul	1 No	
4	Fabrication, Transportation and supply of hot-dip galvanized Octagonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet as per IS specification suitable to withstand the wind speed of 180 KMPH for 12 mtrs height Pole having dimensions Bottom 240mm, Top 100mm with 4mm thick, base plate 320 x320 x20mm and 4 Nos of M24 x 850 long 'J' bolts along with template and the Makes & Brands should be as below. Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/ Skipper/Consoul	1 No	
5	Fabrication, Transportation and supply of hot-dip PU Paint finish Curved Octagonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement,		

	including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 9 Mtrs Mounting height Curved Pole having dimensions Bottom 180 mm., Top 85mm with 3mm thick, base plate 400 x 400 x 20mm and 4 Nos of M24 x 750 long 'J' bolts along with templates. Including Supply of 0.2M long Single arm bracket and the Makes & Brands should be as below. Makes: Bajaj / Valmont/Laasma /Transrail/Utkarsh/Skipper/Consoul		
	i) Galvanized	1 No	
	ii) Galvanized PU paint finished	1 No	
FOUNDATION AND ERRECTION CHARGES OF POLES			
1	Erection charges for 7.50 Mts long Octagonal pole on bridge kerb portion with 4 Nos, 8" Anchor bolts with chemical treatment with suitable "J" type bolts etc duly drilling holes to RCC slab with V.C.C. M.15 concrete for suitable base concreting with necessary steel reinforcement work and curing for 7 days etc. including cost and conveyance of all material and all labour charges etc. complete as directed by the department officers.	1 Job	
2	Foundation and erection charges with special T&P, for 7.50 Mtrs long Octagonal /Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.45Mtr x 0.45Mtrs x1.20 Mtr size M20 cc work vibrated concreting mixing with necessary steel (10kgs) reinforcement and curing for 7 days as directed by the field engineers during execution including excavation of Earth/BT all labour charges and cost and conveyance of materials etc., complete.	1 Job	
3	Foundation and erection charges with special T&P, for 9.00Mtrs / 10Mtrs long Octagonal / Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.60Mtr x 0.60Mtrs x 1.40 Mtr size M20 cc work vibrated concreting mixing with necessary steel (15kgs) reinforcement and curing for 7 days as directed by the field engineers during execution including excavation of Earth/BT all labour charges and cost and conveyance of materials etc., complete.	1 Job	
4	Foundation and erection charges with special T&P, for 12Mtrs long Octagonal /Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.67Mtr x 0.67Mtrs x 1.50 Mtr size M20 cc work vibrated concreting mixing with necessary steel (20kgs) reinforcement and curing for 7 days as directed by the field engineers during execution including excavation of Earth/BT all labour charges and cost and conveyance of materials etc., complete.	1 Job	
Glass Reinforced Polymer (GRP) POLES			
1	Supply and transportation of following glass reinforced polymer (GRP) composite type Conical pole with single arm bracket of length 1Mtr and internal junction box including labour charges etc., complete and the Makes & Brands should be as below. Makes: Bajaj / Kemrock / Valmont/Sumip/Helipole		

a	...do....3.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	
b	...do....4.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	
c	...do.... 6.00 Mtrs height, Bottom dia 143mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	
d	...do.... 8.00 Mtrs height, Bottom dia 193mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	
e	...do... 9.00 Mtrs height, Bottom dia 210mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	
f	...do.... 10.00 Mtrs height, Bottom dia 227mm, Top 76mm, AV thickness 6mm and to withstand maximum wind velocity 180Km/Hr	1 No	
2	Supply and transportation of base bracket suitable for glass reinforced polymer (GRP) composite type pole including labour charges etc., complete and the Makes & Brands should be as below. Makes: Bajaj / Kemrock / Valmont/Sumip / Helipole		
a	...do.... For 3.00 Mtrs Pole	1 No	
b	...do.... For 4.00 Mtrs Pole	1 No	
c	...do.... For 6.00 Mtrs Pole	1 No	
d	...do.... For 8.00 Mtrs Pole	1 No	
e	...do.... For 9.00 Mtrs Pole	1 No	
f	...do.... For 10.00 Mtrs Pole	1 No	
HIGH MAST POLES			
1	Fabrication, transportation and supply of 12 Mtrs Polygon High Mast with single section of 3mm thick of Bottom 360mm and Top 150mm dia with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 520mm dia 16mm thick with its accessories. Mast shall be in single section for 12 Mtrs and 2 sections for 16 and 20 Mtrs. Mast shall be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch / power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M24 x 800 mm foundation bolts of required quantity, suitable for 6 luminaires with GLS type aviation twin lamp and the Makes & Brands should be as below. Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/Skipper/Consoul	1 No	

2	Fabrication, transportation and supply of 16 Mtrs Polygon High Mast with two sections of Bottom 4mm thick and Top section with 3mm thick with GLS type aviation lamp of Bottom 360mm and Top 150mm dia with BSEN – 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 560mm dia 25mm thick with its accessories. Mast shall be in single section for 12 Mtrs and 2 sections for 16 and 20 Mtrs. Mast shall be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch/ power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M24 x 800 mm foundation bolts of required quantity with GLS type aviation twin lamp and the Makes & Brands should be as below. Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/Skipper/Consoul	1 No	
3	Fabrication, transportation and supply of 20 Mtrs Polygon High Mast with two sections of Bottom 4mm thick and Top section with 3mm thick of Bottom 460mm and Top 150mm dia with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate, having a base plate of size 670mm dia 25mm thick with its accessories. Mast shall be in single section for 12 Mtrs and 2 sections for 16 and 20 Mtrs. Mast shall be hot dip galvanized and suitable for wind velocity of 180 KMPH as per IS 875 part 3 including head frame, 2 point suspension system with steel rope 6mm dia (7/19) construction double drum winch/ power tool operating speed of 900 RPM, and necessary cable trailer connections and single speed motor with M30 x 750 mm foundation bolts of required quantity with GLS type aviation twin lamp and the Makes & Brands should be as below. Makes: Bajaj / Valmont/Laasma/Transrail/Utkarsh/Skipper/Consoul	1 No	
FEEDER PILLAR BOXES			
1	Supply and fixing of suitable out door type feeder pillar box made with 14 SWG CRCA sheet after 7 tank process including S & F 40-63A FP MCB, 6 Nos SP MCB's, din channel, bus bars, 6 Sqmm 3 core copper cable for internal wiring, contactor, connectors and provision for energy meter etc., complete for finished item of work and the Makes & Brands should be as below. FP MCB make: Legrand / Schnieder / L&T	1 No	
2	Supply and fixing of suitable out door type feeder pillar box made with 14 SWG CRCA sheet after 7 tank process including S & F 40-63A FP MCB, 9 Nos SP MCB's, din channel, bus bars, 6 Sqmm 3 core copper cable for internal wiring, contactor, connectors and provision for energy meter etc., complete for finished item of work and the Makes & Brands should be as below. FP MCB make: Legrand / Schnieder / L&T	1 No	
ERECTION- HIGH MAST POLES			
1	Earth work excavation with a approximate quantity of 4.0 Cum for erection of 12 Mtrs high mast and refilling with a quantity of 0.53 Cum of PCC 1:4:8, 1.50 Cum M 20 grade concrete and (80 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate	1 No	

	with cost and conveyance of all above materials including labour charges for erection of High Mast and Carriage etc complete.		
2	Earth work excavation with a approximate quantity of 6.0 Cum for erection of 16 Mtrs high mast and refilling with a quantity of 0.65 Cum of PCC 1:4:8, 2.60 Cum M 20 grade concrete and (110 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carriage etc complete.	1 No	
3	Earth work excavation with a approximate quantity of 7.0 Cum for erection of 20 Mtrs high mast and refilling with a quantity of 0.75 Cum of PCC 1:4:8, 3.60 Cum M20 grade concrete and (140 Kgs) reinforced steel of 12mm / 10mm / 8mm, Soil bearing capacity of 10 T/Sqm, Anchor plate with cost and conveyance of all above materials including labour charges for erection of High Mast and Carriage etc complete	1 No	
4	Supply of Sizes thermo plastic cable junction boxes with IP66/67 weather proof, for outdoor installation with knockouts for cable entry including terminals etc., complete (sizes in mm) and the Makes & Brands should be as below. Make : Hensel/Sadhrish		
a	155 X 210 X 92	1 No	
b	205 X 255 X 112	1 No	
c	225 X 295 X 122	1 No	
d	255 X 600 X 170	1 No	
DOUBLE WALLED CORRUGATED HDPE PIPE			
1	Supply and Transportation of double walled corrugated HDPE duct made as per specification BSEN - 500 86/IS 14930 Part-II and the Makes & Brands should be as below. Makes: DURA LINE (Dura Guard)/Precision or its equivalent make.		
a	Outer dia 50mm and Inner dia 38mm	1 RM	
b	Outer dia 63mm and Inner dia 51mm	1 RM	
c	Outer dia 78mm and Inner dia 63mm	1 RM	
d	Outer dia 90mm and Inner dia 76mm	1 RM	
e	Outer dia 120mm and Inner dia 103.5mm	1 RM	
f	Outer dia 160 mm and Inner dia 136 Mm	1 RM	
g	Outer dia 180 mm and Inner dia 152 mm	1 RM	
h	Outer dia 200 mm and Inner dia 170 mm	1 RM	

AUTOMATIC STREET LIGHT CONTROL SYSTEMS			
1	Supply of Automatic Street Light Control System with Optical Micro Sensor, Low voltage / High voltage trip and reset, operating voltage 150 - 280V AC, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of of single phase load with necessary clamping arrangements and the Makes & Brands should be as below. Make: Swadep Nature Switch / Lightmate/ GL/Bajaj		
a	1 KW	1 No	
b	3 KW	1 No	
c	5 KW	1 No	
d	8 KW	1 No	
2	Supply of Automatic Street Light Control System with Optical Micro Sensor, Low voltage / High voltage trip and reset, operating voltage 150 - 280V AC per Phase, 50 HZ with suitable SMC enclosure of IP 54 protection, MCBs and contactor suitable to control the load of of Three phase load with necessary clamping arrangements and the Makes & Brands should be as below. Make: Swadep Nature Switch / Light Mate /GL/Bajaj		
a	5 KW	1 No	
b	8 KW	1 No	
c	12 KW	1 No	
d	25 KW	1 No	
e	50 KW	1 No	
MCBs (AS PER IS:60898-1:2002)			
1	Supply of 10KA C/D Curve ISI Mark and the Makes & Brands should be as below. Makes: Legrand-DX3 / Schneider-A9/Hager-h3/ Siemens-5SX4/ Havells STADx /L&T-AU/Indo Asian-Opti pro/ HPL(Techno)		
a	6-32A SP MCB	1 No	
b	40-63A SP MCB	1 No	
c	6-32A DP MCB	1 No	
d	40-63A DP MCB	1 No	
e	6-32A TP MCB	1 No	
f	40-63A TP MCB	1 No	
g	6-32A FP MCB	1 No	
h	40-63A FP MCB	1 No	

	LED DRIVERS		
1	Supply and transportation of LED Driver as per IS 15885 (Part 2 / Sec13). 2012 with input line voltage 120V-270V AC, 50Hz with surge protection of 4.0 KV, IP20, suitable for LED street light fitting with 2 Years Warranty and the Makes & Brands should be as below. Makes: Philips/Crompton/Bajaj/Havells/Surya/Greenlites/HPL/Halonix/Jaquar/Ib LED/Promtec/Eveready/Stanjo		
a	15-30 W	1 No	
b	45-90 W	1 No	
c	120-180 W	1 No	
	CABLE TERMINATIONS AND ACCESSORIES		
1	Supply and making one end termination with heavy duty double compression brass gland as per BS 6121:2005, IP 66 complete, SIBG type, heavy duty Alluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE alluminium conductor cable of 1100 volt grade as required of size and the Makes & Brands should be as below. Makes: Dowels/Comet/SMI		
a	3.5core x 25 sq.mm	Set	
b	3.5core x 35 sq.mm	Set	
c	3.5 core x 50 sq.mm	Set	
d	3.5 core x 70 sq.mm	Set	
e	3.5core x 95 sq.mm	Set	
f	3.5core x 120 sq.mm	Set	
g	3.5core x 150 sq.mm	Set	
h	3.5core x 185 sq.mm	Set	
i	3.5core x 240sq.mm	Set	
j	3.5core x 300 sq.mm	Set	
k	3.5core x 400 sq.mm	Set	
l	4 core x 6/10/16 sq.mm	Set	

U.G. CABLES			
1	Supply and transportation of following XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I)/1554-I and the Makes & Brands should be as below. Makes: Torent / Universal / Unicab / Havells / KEI / Gloster/ Finecab / Polycab / RR Kabel		
a	4 sqmm X 2 core	1 RM	
b	6 sqmm X 2 core	1 RM	
c	10 sqmm X 2 core	1 RM	
d	6 Sqmm X 4 core	1 RM	
e	10Sqmm X 4 core	1 RM	
f	16 Sqmm X 4 core	1 RM	
g	25 Sqmm X 3.5 core	1 RM	
h	35Sqmm X 3.5 core	1 RM	
i	50 Sqmm X 3.5 core	1 RM	
j	70 Sqmm X 3.5 core	1 RM	
k	95 Sqmm X 3.5 core	1 RM	
l	120 Sqmm X 3.5 core	1 RM	
m	150 Sqmm X 3.5 core	1 RM	
n	185 Sqmm X 3.5 core	1 RM	
o	240 Sqmm X 3.5 core	1 RM	
p	300Sqmm X 3.5 core	1 RM	
q	400Sqmm X 3.5 core	1 RM	
SHEATHED FLEXIBLE COPPER CABLES			
1	Supply of PVC insulated and sheathed FRLS copper round cable for voltage up to 1100V as per IS 694/1990 and the Makes & Brands should be as below. Makes: Finolex / RR kabel / Havells /KEI/Polycab/ Gloster/Goldmedal/GM		
a	Single Core 25 Sqmm	1 RM	
b	Single Core 35 Sqmm	1 RM	

c	Single Core 50 Sqmm	1 RM	
d	Single Core 70 Sqmm	1 RM	
e	2 core 1.5 Sqmm	1 RM	
f	2 core 2.5 Sqmm	1 RM	
g	2 core 4.0 Sqmm	1 RM	
h	2 core 6 Sqmm	1 RM	
i	2 core 10 Sqmm	1 RM	
j	2 core 16 Sqmm	1 RM	
k	3 core 1.5 Sqmm	1 RM	
l	3 core 2.5 Sqmm	1 RM	
m	3 core 4.0 Sqmm	1 RM	
n	3 core 6 Sqmm	1 RM	
o	3 core 10 Sqmm	1 RM	
p	3 core 16 Sqmm	1 RM	
q	4 core 1.5 Sqmm	1 RM	
r	4 core 2.5 Sqmm	1 RM	
s	4 core 4.0 Sqmm	1 RM	
t	4 core 6 Sqmm	1 RM	
u	4 core 10 Sqmm	1 RM	
v	4 core 16 Sqmm	1 RM	
	COPPER FLEXIBLE CABLES (AS PER IS:694)		
1	Supply of FRLS/ FRLS-H / HFFR PVC insulated 1100V grade as per IS : 694 / 1990 specification for Copper cable and the Makes & Brands should be as below. Makes: Finolex / RR kabel / Havells/KEI/Polycab/Gloster/Goldmedal/GM		
a	1.0 Sqmm	100 RM	
b	1.5 Sqmm	100 RM	
c	2.5 Sqmm	100 RM	

d	4.0 Sqmm	100 RM	
e	6.0 Sqmm	100 RM	
f	10.0 Sqmm	100 RM	
g	16.0 Sqmm	100 RM	
EARTHING			
1	Providing earth electrode of low carbon steel rod, UL listed of 17.2 mm dia, 3 Mtr long, coated with copper of 254 microns thickness, CPRI tested for short time current withstand test of 25 kA, coating thickness, environmental test (Salt Mist Test), Bend test, Tensile strength, Yield / tensile ratio, Electrical Resistivity test, complete with clamps and 2 bags of Earth plus ULTRA high grade earthing compound IEC 62561-7 complaint Eco-friendly, Maintenance free, anticorrosive, lead-free, super conductive, mineral based high-grade earthing compound, to enhance soil conductivity. With resistance <0.20 ohms-meter, should be leach proof & sulphur free complete with earth inspection chamber of dimensions : Width : 320 mm x 320 mm, Height : 192 mm, Weight : 30 Kgs, Load bearing capacity : 5000 Kgs	1 No	
2	Providing independent earthing for Important equipment with 100mm dia Heavy gauge C.I (Cast iron) pipe with Flange 2.5m long enclosed in C.C/brick massonry chamber of 450m x 450m x 400mm with R.C.C. Slab cover duly providing staggered holes filling with salt and charcoal from the bottom of the pipe giving earth connection from electrode through G.I strip of 40 x 6mm x 200mm length with all accessories and labour charges complete, as per IS specifications 732/1982 (Part II)	1 No	
COPPER / ALLUMINIUM / G.I. ITEMS (PER KG)			
1	Copper Plate / Strip / SWG wire No.8 /10 / 14	1 kg	
2	Copper winding wire	1 kg	
3	Copper winding wire with PVC Insulated of fine quality	1 kg	
4	Alluminium Bus bars / Strips / Accessories	1 kg	
5	Alluminium winding wire	1 kg	
6	G.I. Strip / Plate / Wire	1 kg	
DOWN CONDUCTOR			
1	Supply, installation, testing and commissioning of Test Joint (Folding Clamp) suitable to connect 8mm round conductor and max by 30x3 mm GI strip as specified in drawing and directed by Engineer.	Each	

LED Street Lights/LED Flood Lights Installation Charges			
1	20W/30W/35W/45W/50W/60W/70W/75W	1 Job	
2	90W/100W/120W/125W/150W	1 Job	

Note:

1. The quoted price is exclusive of GST and inclusive of transportation & supply to anywhere in the State of Andhra Pradesh including 2 years guarantee period after supply & installation. Installation Charges shall be quoted separately excluding GST.
2. The price quoted shall be rounded to one decimal point. Price quoted after first decimal point, if any, shall not be considered.

Date:

**Signature of the Supplier with Name,
Designation & Stamp**