


**Estimate for Supply and Installation of Solar LED Mini Mast Light at- Near Taradebi Mandira, Ahana  
Under Tentulipada GP**

SL NO	NAME OF THE MATERIALS	UNIT	QTY	RATE /UNIT	TOTAL
01	Supply of 06 Meter GI Make octagonal Pole Pole Tpo-75mm, Bottom 100 mm, 3mm Thickness, the Base plate size-150mm X 150 mm X 12mm, Wind Speed 160 Km/Hr ( Make- Utkarsh/ Bajaj/ Valmont/Lyshat/Jaquar) or equivalent	Nos	1	16500.00	16500.00
02	Supply of Two Side Arm for supporting and adjusting of Solar Light ( GI Structure Welded With Top Canopy at an angle of 90 degree Suitable for the octagonal pole. The outer Diameter of Arm of 40 mm MS Nut and Bolt are to be provided on canopy to fix the Arm Rigidly on 6 Mtr GI Tubular Pole ( Make- Utkarsh/ Bajaj/ Valmont/Lyshat/Jaquar) or equivalent	nos	1	1500.00	1500.00
03	Supply of 30W Semi Integrated(All in two) Solar street lights having 100Wp or more highly efficient Monocrystalline PV module with multipurpose arm & 12.8 V 42Ah or more Lithium Ferrophosphate (LiFePo4) Battery (BIS approved) which shall be inside the extruded aluminium luminaire housing (Theft retardant type). MPPT charge controller having > 92% efficiency & PIR Sensor. The initial lumen output of Semi Integrated street light shall be 4500 lumen or more in CCT 6000K (+/-500K) (Lumen efficacy of $\geq 150$ lm/w) as per LM 79 report of third party NABL lab ( In house report of NABL accredited lab will not be acceptable). The LED chip will be of OSRAM/NISCHIA/CREE/SEOUL Semiconductor only and should be with lenses for effective lighting distribution. The complete system & BMS should be designed to provide 3 days (36 Hrs) backup in dimming mode by activating PIR sensor and battery should be kept inside the luminaire and Mono Crystalline Panel (Made in India) to be mounted on the top of the luminaire housing. The luminaire must be having IP 66 protection for critical component like (LED compartment, Driver compartment & Battery). The Semi Integrated street light is having IK 08. Warranty on the Semi Integrated street lights must be 5 years. The following test reports/certifications must be submitted for the technical acceptance of the products. 1. LM 79 REPORT (Third party NABL lab only), 2. IK 08 (Report of Third party NABL lab only), 3. IP 66 (Report of Third party NABL lab only): make-Panasonic/Havells/Bajaj/Jaguar or equivalent	Nos	2	32000.00	64000.00
04	Construction of RCC foundation by using M20 grade RCC and Fe 415 grade reinforcement in the foundation by considering the SBC as 10 T per sq mtr and fixing the 4 nos. fdn bolts in that foundation for installation of pole with Solar light on that foundation. The work shall be executed as per the direction of EIC.	Nos	1	3500.00	3500.00
05	Erection and transportation of The Tubular pole and Solar Light With the Help of Suitable Equipments excluding cost of material including cost of labour charges all wiring materials and labour	Nos	1	1350.00	1350.00
<b>Sub Total :-</b>					86850.00
<b>GST (CGST 9% + SGST 9%) :-</b>					15633.00
<b>Grand Total :-</b>					102483.00
limited to					1,00,000.00

**NB: The undersigned isn't responsible for execution, supervision, quality & make of materials used, certifications of compliance & bills of the work.**

  
Junior Engineer  
G.E. Section, Paradeep

  
Executive Engineer  
G.E. Sub-Division Jagatsinghpur  
District Engineer