COUNTY GOVERNMENT OF KITUI

ELECTRICAL BILL OF QUANTITIES FOR THE PROPOSED INSTALLATION and REPAIR OF SOLAR ENERGY INTERGRATED STREETLIGHTS FROM KWA VONZA TOWN TO MWITASYANO RIVER IN KWA VONZA WARD

SOLAR INTEGRATED STREETLIGHTS 30M SPAN ALONG THE ROAD

NOTE: These solar installation works MUST be carried out by contractors licensed to carry out solar installations by EPRA Minimum Class V2 SOLAR LICENCE AND CLASS C2 FOR ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE(KSH)	AMOUNT
1	Site Clearance & Excavate pit of size of 3 ft deep or as directed by site engineer	No	36		
2	Transportation of materials to site	Km	40		
3	Erect an 9000mm high (with 800mm long arm for the LED lamps) street lighting galvanised steel mast with mounting structure for the 2 number solar lamps and round tempered cross-sectional area with two sections; the bottom section being 6000mm high and 100mm diameter while the upper arm being 3000mm high and 75mm diameter complete with two circular anchor plates 300mm diameter x 5mm thick with 6 No. holes each for tightening 6 No anchor bolts and nuts of size M24 and all other accessories as shown in the drawing. (The street lighting columns spaced as per the Electrical Engineer's approval).	Pc	36		
4	Crane Hosting per pole	No	110		
5	Supply and fit Painted metal bracket such that the lamps fits into the Item 3 above as per the pole and lamp supplied or on the existing poles	No	110		
6	provide, place and compact concrete 3:5:5 for the anchor plate and nuts on each pole.	No	36		
7	Construct and erect a standard publicity signboard complete with NEMA, NCA and physical planning charges.	Item	1		
8	Provide for archorring component including plates, bolts. connecting D10 or appropriate to engineers approval	Item	36		
9	Remove the existing AC head lamps From the metallic lamps if any and store them at the Kitui municipality offices or otherwise as directed by the Electrical engineer	Item	74		

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	SUB TOTAL C/F TO GRAND SUMMARY				
ITEM	DESCRIPTION	UNIT	QTY	RATE(KSH)	AMOUNT
6	supply and fit 200W as IEC 61215 and IEC 61730 series intergrated solar led streetlight as IP65 and ISO certified and with the following minimum technical parameters	No	110		
	Battery Type-LiFePO4, 12.8V, >60AH				
	Charging Time: 6-8 hours				
	Discharging Time: 15-18 hours				
	Lumen: 160 lm/w				
	Material Aluminium				
	Charging Electronics; Integrated MPPT Charger with driver				
	Charger Efficiency>90%				
	Driver Efficiency>90%				
	IP Rating; IP65				
	Housing; Aluminium Die Cast				
	Front Cover; UV Starbalized polycarbonate cover				
	Color Temperature; typical 3000K-4000k				
	CRI of Illumination>70				
	Switch On-0ff				
	Horizontal Mounting Option				
	Adjustable tilt angle 0-15 degrees				
	Outer Mounting Diameter>60 mm				
	18W, 120W monocrystalline Solar Panel				
	No of solar cells>36				
	Cell Dimension(156mm*156mm)				
	Glass-self cleaning tempered glass				
	Manufactured Warrant 5 years				
	Module Efficiency warrant-90% of Pmax for 10 years/80% of PMAX for 25 years				
	Battery type--lithium ion				
	Rated Battery operating current<10 A				
	Rated Battery operating voltage 12 V				

	SUB -TOTAL C/F TO GRAND SUMMARY				
	GRAND SUMMARY PAGE				
	Sub-Total 1 Carried from Page 1 Sub-Total 2 Carried from Page 2				
	SUB-TOTAL				
	Allow for Two Hundred Thousand Project management and monitoring, airtime and per diems				
	Allow for 1% for Transport Costs				
	TOTAL				
	Add 16% VAT				
	GRAND TOTAL				
	AMOUNT IN WORDS:				

Tenderer's name and signature.....

Address.....

Date.....

Witness: Name and Signature.....

Description.....

Address.....

Date.....

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