



BOQ -1

Supply and installation of 100W new Solar Street Light in Bandiradley and Dhabad, Galmudug state of Somalia.

SN#	Description	QTY	Unit Measure	Price	Total Price
1	<b>Solar Panel:</b> 200W-250 Mono solar panel, A grade solar cell, high conversion efficiency, 25 years at 85% of minimal rated output power.	115	Pcs		
2	<b>100W LED Street Light:</b> 100W, imported Philips or equivalent chip LED chip luminaire with the following specs: efficiency >170lm/w, life-span 100,000 hours, anodized aluminum, IP66, Warm white: 3500 K	115	Unit		
3	<b>Battery:</b> Lithium Ion Phosphate Battery: 100Ah-150Ah/24v	115	Unit		
4	<b>MPPT Charge Controller:</b> 15A-20A, 12V/24V auto-sensing, light on + time intelligent control, high efficient and accurate charging control, IP68, various protections, with LED driver integrated	115	unit		
5	<b>Pole:</b> 8M Hot-Dip Galvanized Steel Pole complete package including lamp arm and all the mounting accessories and base foundation	115	Pcs		
6	Concrete, Installation and hire of crane for mounting	115	Lot		
7	Packaging and Transportation to the sites	115	Lot		
<b>TOTAL</b>					

**BOQ -2****Supply and installation of 60w new Solar Street Light in Docokey, Galmudug state of Somalia.**

SN#	Description		Quantity	Price	Total Price
1	All-In-One Integrated Solar Street Light (60W) 18V115-120W High Efficiency Monocrystalline Silicon with 12.8V/39Ah LiFePO4 Battery, LED light of 12V 60W and Intelligent control mode, 12/24V auto sense, IP68, over charge and discharge protection.	Pcs	30		
2	8M h steel pole, diameter 60-140mm, thickness 3mm, flange 260*260*12mm	Unit	30		
3	Base Foundation (M16, 800mm long J-Bolt * 4pcs, Q235 steel)	Unit	30		
4	Concrete, Installation and hire of crane for mounting	Lot	30		
5	Packaging and Transportation to the sites	Lot	30		
<b>TOTAL</b>					

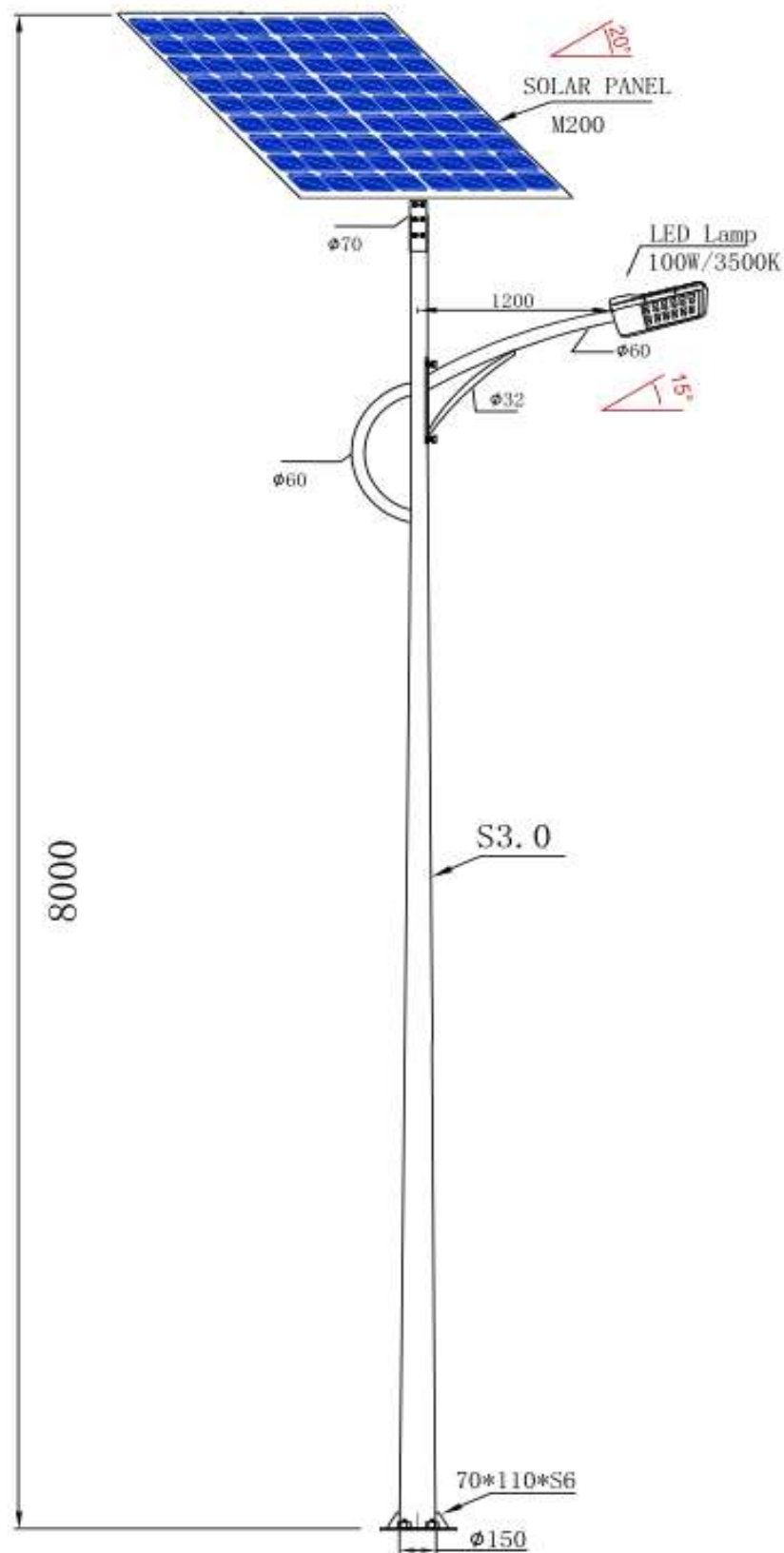
**GRAND TOTAL FOR BOTH SOLAR STREETLIGHTS**

## PROPOSED SITES FOR SOLAR STREETLIGHTS IN BANDIRADLEY, DHABBAD, AND DOCOLEY

The assessment recommends the installation of all-in-one solar streetlights along major roads in Bandiiradley, Dhabbad, and Docoley to improve night-time visibility, public safety, mobility, and local business activity. The proposed systems will be installed along key road corridors, using appropriate pole spacing and safe offsets from the road edge.

Location	Proposed Road/Area	No. of Solar Streetlights	Pole Spacing	Estimated Road Distance Covered	GPS Coordinates Latitude	End GPS Coordinates Longitude	Remarks
Bandiiradley	Main tarmac road	50	25 m apart	Approx. 1.60 km	6.479169	46.955299	Installed along the main highway corridor
Dhabbad	Main hub road in town	65	25 m apart	Approx. 1.18 km	6.430705	46.455997	Maintain at least 2.5 m offset from road edge
Docoley	Two major roads	30	25 m apart	Approx. 1 km	6.132809	46.966909	Lights to be distributed across two key roads

Specification of Solar Street Light		
Solar Panel	Max Power	36V200W High Efficiency Monocrystalline Silicon
	Voc	36V
	Imp	8.99A
	Specification	Size: 1288*770*30mm; Weight: 11KGS
	LifeTime	10 years warranty, 25 Years lifespan
Battery	Type	24V/(100Ah-150Ah) LiFePO4 Battery
	upper/low cut off	20.0V-29.2V
	Specification	Size: 290*190*90mm; Weight: 4.0KGS
	Life Time	8-12 Years
LED Lamp	Max Power	24V 100W
	LED Chip Brand	100pcs Philips LED Chips with High Brightness
	Lumen (LM)	>170LM/W
	Life Time	>100000 Hours
	Viewing Angle	70*140°
	Main Material of Lamp	Aluminium Alloy, IP66
Controller	Specification	15A, 12/24V, MPPT, IP68, intelligence controller, over discharge & charge protection function and etc.
Charge Time	by Sun	6-7 Hours (with Enough Strong Shine)
Discharge Time	Intelligent Power	More 36 Hours
working Temperature	Range( °C )	-30℃~+70℃
Colour Temperature	Range(K)	3500K
Pole	Specification	8M, Diameter 70-150mm; thickness 3mm, flange 300*300*16mm, 1200mm lamp arm
Base Foudation	Specification	M18, 1000mm*4pcs, foldable base foundation, Q235 steel
Space Between Light	Range (M)	30-40M
Certificate	CE / ROHS / IP66 /IES	

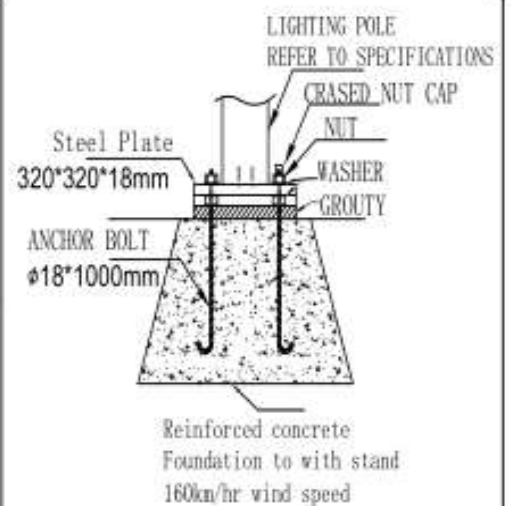
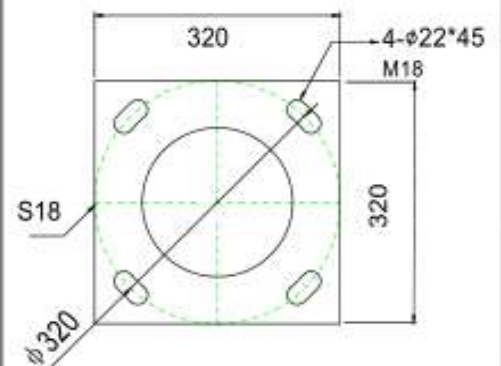
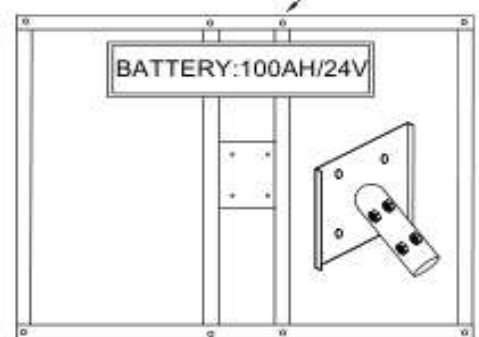


SOLAR PANEL: M200W/36V

BATTERY: 100AH/24V

Controller mppt: 15A/24V

20\*40





### All-In-One Integrated Solar Street Light (60W)

Model: GD-AIO60WB

Solar Panel	Max Power	18V115-120W High Efficiency Monocrystalline Silicon
	LifeTime	25 Years
Battery	Type	12.8V/39Ah LiFePO4 Battery
	Life Time	8-10 Years
LED Lamp (With sensor)	Max Power	12V 60W
	LED Chip Brand	USA Cree Chips with High Brightness, 200 pcs, 4*50 pcs
	Lumen (LM)	9496LM
	Life Time	80000 Hours
	Viewing Angle	70*140°
Controller	specification	Intelligent control mode, 12/24V auto sense, IP68, over charge and discharge protection, auto on/off sensor
Charge Time	by Sun	6-7 Hours (with Enough Strong Shine)
Working Time	Intelligent	12 hours/night, 3 nights back up
working Temperature	Range( °C )	-30℃~+70℃
Colour Temperature	Range(K)	2700-6500K
Mounting Height	Range (M)	8M Hot-dip Galvanized steel pole, thickness 3mm, diameter 76-150mm, flange 320*320*18mm
Base Foundation	specification	M18, 800mm J-Bolt * 4, Q235 steel
Space Between Light	Range (M)	25-35M
Main Material of Lamp	Aluminium Alloy	
Certificate	ISO9001/CE / ROHS / IP66 /IES/IK10	
Warranty Period	3 Years	

