Project Case

UNDP
TOGO PROJECT

Empowered lives.
Resilient nations.



Figure 1: Installation site in Togo



Location: Various location throughout TOGO,Afrcia

Buyer: UNDP TOGO

Project Quantity: 10,000units

Products Used: SunMaster STL08 Series solar LED street lights

Project overview: This is special designed solar street light for UNDP aid project, the pole not only mounted with led street light, also with industrial level 4G WIFI router and the socket with 5 USB charger port. It brings great convenience for the inhabitants

Project Specification:

- Luminaire:
- Solar Panel
- Battery
- Mounting Height
- Operation profile: Dusk to dawn

As 10 years solar street light manufacturer, SunMaster never stops the effort in research and develop of new technology.



Figure 2 super bright Bridgelux LED Module

Except the 170lm/W outstanding bright luminous efficiency, SunMaster successfully combined the surveillance camera, 4G WIFI technology and smart charger in the light pole.



Figure 2: 3G/4G Router

With the abundant technology background, when UNDP released the massive 10000 units solar street lights with high technical requirement, SunMaster naturally came out as the tender winner.



Figure 3 SunMaster solar street light with WIFI and solar charger

Owns manufacturing plants with a total area of 8,000 square meters with multiple workshops for production of solar panels, LED lights and the relative parts. SunMaster have an month manufacturing capacity of 5,000units solar street lights. After win the tender, SunMaster devoted to the manufacturing strictly according to the UNDP's specific requirement and completion deadline requirement.

The installation was completed by our local partner with the surveillance of SunMaster engineer.

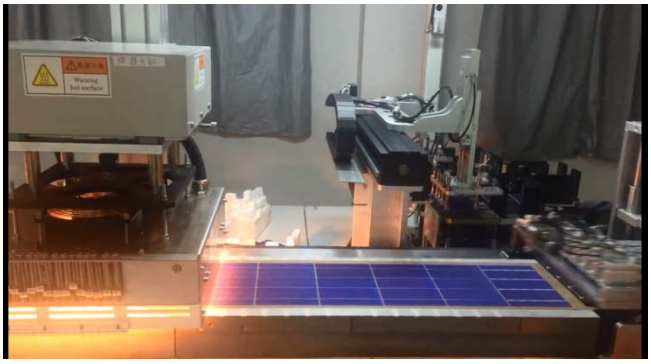


Figure 4 SunMaster Streamlined workshop

STL08 series solar street light was applied in this project. The 240W solar powered LED street light is able to produce 12,500 lumens, which is the same lighting that would be produced with a standard 120~150W HPS grid-tied fixture. This 95W light fixture is powered by 240 W solar panel, with 300 Ah battery backups. Integrated with 4G WIFI router and smart phone charger module, the intelligent solar street light provide much more convenient life for the inhabitants in Togo. The 10000 units of solar street light were installed in various places of TOGO.





Figure 5 Installation Site

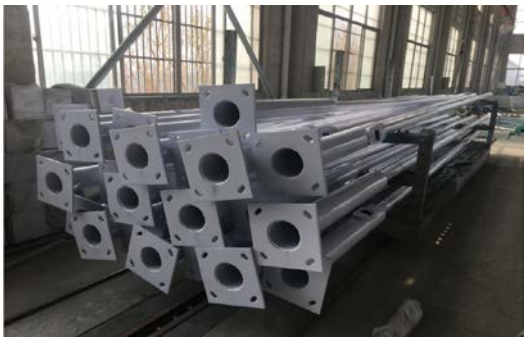


Figure 6 Manufacturing street light pole

Because of the extremely lack of power in Togo, the installation of these off grid solar LED lights will save the government considerably in utility and maintenance costs for the next ten years! The savings from switching to solar will be pumped back into the infrastructure building of Togo. With over ten years experience in the solar lighting area, SunMaster's team of engineers have again proven their ability to provide reliable solar LED lights with competitive prices, outstanding customer service, and design expertise. It’s SunMaster’s great honor to become UNDP supplier.



SALES CONTRACT

Between

Seller: Jinhua SunMaster Solar Lighting Co., Ltd. **S/C NO:** SM-17YXH02-DTV

Address: No.2735 Dongyang street Jinhua Zhejiang China **Signed at**: Lily Yao

Tel: +86 579 82466629 **Fax**: +86 579 82466621 **Signed Date:** 20171120

(Hereafter "Sunmaster")

And

Buyer: [redacted] Factory Co.

Address: [redacted] ah

Tel: + [redacted] **Fax:** + [redacted]

(Hereafter "DT")

Together shall be defined as the "Parties" and singly each a "Party")

Do jointly enter into this Sales Contract (the "Contract" or "Agreement") between the Seller and the Buyer whereby the Seller agrees to sell and the Buyer agrees to buy the under-mentioned commodity according to the terms and conditions stipulated below:

(1). Details of commodity

NAME OF COMMODITY	SPECIFICATIONS	Quantity	Unit Price	Total Amount EXW PRICE
50W 8m solar light (Normal type)	(Normal Type) 1. LED Lamp: 50W *1PC; 2. Solar Panel: 250W Poly *1PC; 3. Battery: Gel 150Ah/12V *2PCS; 4. Controller: 10A, 12/24V *1PC; 5. Pole: 8M, Q235 Steel, Hot dipped Galvanized, powder coating. *1Set; 6. Foundation Kits*1PC; 7. Battery Box *1PC; 8. Cable* 1PC	7000 units	USD486.7 /Unit	US$ 3406900
50W 8m solar light with USB Charger only	(With USB CHARGER) 1. LED Lamp: 50W *1PC; 2. Solar Panel: 250W Poly *1PC; 3. Battery: Gel 160Ah/12V *2PCS; 4. Controller: 10A, 12/24V *1PC; 5. Pole: 8M, Q235 Steel, Hot dipped Galvanized, powder coating. Including USB Charger *1Set; 6. Foundation Kits* 1PC; 7. Battery Box *1PC; 8. Cable* 1PC	2000 units	USD572 /Unit	US$ 1144000
50W 8m solar light with USB Charger and WIFI.	(With USB CHARGER AND WIFI) 1. LED Lamp: 50W *1PC; 2. Solar Panel: 250W Poly *1PC; 3. Battery: Gel 180Ah/12V *2PCS; 4. Controller: 10A, 12/24V *1PC; 5. Pole: 8M, Q235 Steel, Hot dipped Galvanized, powder coating. Including USB Charger *1Set; 6. Foundation Kits* 1PC; 7. Battery Box *1PC; 8. Cable *1PC; 9. Industrial-graderouters ACT260 (WiFi) * 1PC ;	1000 units	USD737.5 /Unit	US$ 737500

Total EXW PRICE Amount in words: Say U.S.Dollars FIVE MILLION TWO HUNDRED EIGHTY-EIGHT THOUSAND FOUR HUNDRED, to be paid according to the following schedule:

Delivery	1st payment date	1st Payment amount	2nd Payment date (estimated)	2nd Payment Amount
1	Contract signing	16,165.80	01/12/2017	37,720.20
2	Contract signing	317,304.00	10/12/2017	740,376.00
3	01/12/2017	206,247.60	31/01/2018	481,244.40
4	01/01/2018	523,551.60	28/02/2018	1,221,620.40
5	01/02/2018	523,251.00	31/03/2018	1,220,919.00

The 2nd Payment shall occur upon inspection at seller's factory within 2 working days. The Supplier shall have all bills of materials and documentation for the components available for inspection during that time

Each Delivery Shipment date should be after each 2nd payment date. Each 2nd payment date should be subject to Payment receiving date which is shown in Bank Receipt. If the buyer fails to pay on time as schedule, the contract will be null and void. So the deposit paid will not be return, due to the seller's losses for production.

(2). Warranty and Specification of Goods:

The Seller guarantees the purchaser for a period of minimum 5 years that its solar lighting systems will be free from defects in materials. The Seller will repair or replace any component which is defective for a minimum of 5 years after the date of purchase. The Seller's liability on any claim shall not exceed the purchase price of the system. This warranty does not cover damage or malfunction, as determined by the Seller's service technicians or engineers, due to abuse, misuse, incorrect installation, or accident.

Components	Warranty Period	Working Life
Solar Panel	10 years	>25 years
Led Street Light	5 years	>10 years
WIFI	5 years	>10 years
Battery	5 years	>10 years
Controller	5 years	>10 years
Battery Box	10 years	>10 years
Battery Charger	10 years	>10 years
Pole and the other metal Components, including rustproof attachment parts and cables	10 years	>20 years

PV modules shall be subject to a 10 year warranty as a minimum with power tolerance of more or less 4%. The performance warranty should ensure that the modules will produce at least 90% of their nominal power after 10 years and 80% of the nominal power after 25 years.

--Specification of Goods

The specification of the Goods is contained in Clause 1 and the contents of this Appendix are the agreed specification for the purpose of this Contract. A non-exhaustive summary of the data sheet is listed as below.

--Quality Control

Subject to the following provisions, the Seller expressly accepts the visit of the Buyer's Quality Control Inspector in its factory ahead of each shipment of Goods for inspection and quantity checking, following the Quality Control prior shipment.

Buyer can conduct the Inspection after Seller starts the manufacturing. The Inspection shall be covered by the confidentiality provisions of this Contract, and shall be conducted and completed in a timely way to ensure the shipment schedule as agreed hereunder and the Purchase Agreement will not be affected and shall not significantly disturb the production process of the Seller during such inspection time.

The Buyer should notify the Seller all the terms of inspection with due notice of 5 working days before Inspection. Such Inspection shall be performed within 5 working days within which its Quality Control Inspector may proceed with Inspection at any time during Seller's opening hours.

The Seller represents and warrants to the Buyer that the Goods shall pass successfully industry standard accelerated durability tests under controlled environment chamber (humidity, heat…) in accordance with IEC61215 and IEC 61730 standard.

Notwithstanding the foregoing, if any of the Goods delivered to the Buyer does not comply with the specifications set forth in table above, or is otherwise not in conformity with the terms of this Contract, then, without prejudice to any other right or remedy that the Buyer may have, the Buyer may claim remedies in accordance with SunMaster Warranty and require the Seller to repair or replace the rejected goods at the Seller´s expense within 30 days of the acceptance of the claim.

Rejected goods only include quality problem goods provided by Seller, any failed goods caused by the incorrect installation or improper stock and violent transportation, Seller won't take responsibility.

Seller' expense only includes providing NEW, quality goods for replacing failed goods, but except the freight cost and labor charges. But we allow to providing free loading for replacing goods with other batches goods ordered from SunMaster.

All solar street lights should be completed installation within 120 days of shipment date otherwise the battery warranty clause will be invalid.

--Arrival Inspection/Claim

-----Arrival Inspection

Within 7 days after the delivery of the Goods, the Buyer shall conduct a preliminary inspection of the Goods in respect of visual inspection. The Buyer shall notify the Seller if there is substantial defect arising from the visual inspection and quantity checking, within this period. The Buyer shall be regarded as accepting the Goods if the Buyer does not notify the Seller of such defect within such period.



TLX: 33057 COSCO SHIPPING
FAX: +86(21) 65458984

PORT TO PORT OR COMBINED TRANSPORT BILL OF LADING

1. Shipper Insert Name Address and Phone/Fax	Booking No. / Bill of Lading No.
JINHUA SUNMASTER SOLAR LIGHTING CO., LTD NO.2735 DONGYANG STREET,JINHUA,ZHEJIANG,CHINA TEL:+ 86-579-82466629 FAX:+ 86-579-82466621	616882[redacted] / COSU61688[redacted] Export References HHL04349[redacted]
2. Consignee Insert Name Address and Phone/Fax	Forwarding Agent and References FMC/CHB No.
UNDP TOGO ATTN. [redacted]I UNDP OFFICE IN TOGO 40 AVENUE DES NATIONS UNIES LOME M 911*	Point and Country of Origin
3. Notify Party Insert Name Address and Phone/Fax (It is agreed that no responsibility shall attach to the Carrier or his agents for failure to notify)	Also Notify Party-routing & Instructions
[redacted]LOGIES OFFICE [redacted]KIN[redacted] ROAD TOWER JEDDAH 23412 KINGDOM OF SAUDI ARABIA PH + 392/28[redacted]	
4. Combined Transport* Pre-Carriage by	5. Combined Transport* Place of Receipt: SHANGHAI,CHINA
6. Ocean Vessel Voy. No.: KOTA LUMAYAN 120W	7. Port of Loading: SHANGHAI,CHINA / Service Contract No. / Commodity Code
8. Port of Discharge: LOME	9. Combined Transport* Place of Delivery: LOME / Type of Movement: FCL / FCL CY-CY

Marks & Nos. Container / Seal No.	No. of Container or Packages	Description of Goods (If Dangerous Goods, See Clause 20)	Gross Weight	Measurement
N/M	8023 PACKAGES	SOLAR STREET LIGHT UNDP PURCHASE ORDER TGO10 GP60 0441-1A/B/C/D/E *EMAIL: [redacted]I@UNDP.ORG / [redacted]A@UNDP.ORG TEL +221 [redacted] FAX +221 [redacted]	412800.000KGS	1518.0000CBM
TOTAL:	8023 PACKAGES		412800.000KGS	1518.0000CBM
ON CY-CY TERM SHIPPER'S LOAD,COUNT AND SEAL OCEAN FREIGHT PREPAID				
BSIU93480[redacted] /CE586011	/	308 PACKAGES /FCL / FCL	/40HQ/20,624.000KG/66.000CBM	
CBHU81196[redacted] /CE586015	/	315 PACKAGES /FCL / FCL	/40HQ/20,624.000KG/66.000CBM	
DFSU61518[redacted] /CE586020	/	356 PACKAGES /FCL / FCL	/40HQ/20,624.000KG/66.000CBM	
	** TO BE CONTINUED ON ATTACHED LIST **			

Declared Cargo Value US$ | Description of Contents for Shipper's Use Only (Not part of This B/L Contract)

10. Total Number of Containers and/or Packages (in words) Subject to Clause 7 Limitation: SAY EIGHT THOUSAND TWENTY THREE PACKAGES TOTAL

11. Freight & Charges	Revenue Tons	Rate	Per	Amount	Prepaid	Collect	Freight & Charges Payable at / by

Received in external apparent good order and condition except as otherwise noted. The total number of the packages or units stuffed in the container, the description of the goods and the weights shown in this Bill of Lading are furnished by the merchants, and which the carrier has no reasonable means of checking and is not a part of this Bills of Lading contract. The carrier has issued 3 original Bills of Lading, all of this tenor and date, one of the original Bills of Lading must be surrendered and endorsed or signed against the delivery of the shipment and whereupon any other original Bills of Lading shall be void. The merchants agree to be bound by the terms and conditions of this Bill of Lading as if each had personally signed this Bill of Lading.
*Applicable Only When Document Used as a Combined Transport Bill of Lading.
Demurrage and Detention shall be charged according to the tariff published on the Home page of LINES.COSCOSHIPPING.COM. If any ambiguity or query, please search by "Demurrage & Detention Tariff Enquiry". Other services and more detailed information, pls visit LINES.COSCOSHIPPING.COM.

Date Laden on Board 15 JAN 2018
Signed by:

9805 Date of Issue 15 JAN 2018 Place of Issue HUZHOU

Signed for the Carrier, COSCO SHIPPING LINES CO., LTD.

COPY

Vessel: KOTA LUMAYAN Voyage: 120W B/L NO.: COSU6168[redacted]

Marks & Nos. Container / Seal No.	No. of Container or Packages	Description Of Goods (If Dangerous Goods, See Clause 20)	Gross Weight	Measurement
CXDU18230[redacted] /CE586018	/	422 PACKAGES /FCL / FCL	/40HQ/15,272.000KG	/66.000CBM
CSNU64324[redacted] /CE527780	/	308 PACKAGES /FCL / FCL	/40HQ/20,624.000KG	/66.000CBM
CBHU81386[redacted] /CE586012	/	927 PACKAGES /FCL / FCL	/40HQ/14,600.000KG	/69.000CBM
CCLU76297[redacted] /CE586017	/	308 PACKAGES /FCL / FCL	/40HQ/20,624.000KG	/66.000CBM
BMOU53314[redacted] /CE586019	/	28 PACKAGES /FCL / FCL	/40HQ/14,600.000KG	/64.500CBM
FCIU99938[redacted] /CE527786	/	426 PACKAGES /FCL / FCL	/40HQ/11,200.000KG	/66.000CBM
CAIU87742[redacted] /CE404133	/	313 PACKAGES /FCL / FCL	/40HQ/19,544.000KG	/66.000CBM
CBHU94372[redacted] /CE586016	/	28 PACKAGES /FCL / FCL	/40HQ/14,600.000KG	/64.500CBM
FSCU88174[redacted] /CE267759	/	315 PACKAGES /FCL / FCL	/40HQ/22,280.000KG	/66.000CBM
CBHU88629[redacted] /CE527857	/	319 PACKAGES /FCL / FCL	/40HQ/10,400.000KG	/66.000CBM
BMOU58485[redacted] /CE586013	/	315 PACKAGES /FCL / FCL	/40HQ/20,624.000KG	/66.000CBM
CCLU69557[redacted] /CE586068	/	356 PACKAGES /FCL / FCL	/40HQ/20,624.000KG	/66.000CBM
DFSU69161[redacted] /CE267801	/	308 PACKAGES /FCL / FCL	/40HQ/20,624.000KG	/66.000CBM
TCNU86248[redacted] /CE267755	/	356 PACKAGES /FCL / FCL	/40HQ/20,624.000KG	/66.000CBM
UETU51723[redacted] /CD762237	/	356 PACKAGES /FCL / FCL	/40HQ/20,360.000KG	/66.000CBM
TCNU54496[redacted] /CE586173	/	315 PACKAGES /FCL / FCL	/40HQ/21,720.000KG	/66.000CBM
CCLU70170[redacted] /CE527772	/	457 PACKAGES /FCL / FCL	/40HQ/13,320.000KG	/66.000CBM
CBHU91410[redacted] /CE527912	/	372 PACKAGES /FCL / FCL	/40HQ/19,544.000KG	/66.000CBM
CCLU71855[redacted] /CE586014	/	413 PACKAGES /FCL / FCL	/40HQ/15,000.000KG	/66.000CBM
TCLU52220[redacted] /CE267803	/	402 PACKAGES /FCL / FCL	/40HQ/14,744.000KG	/66.000CBM