

## **REQUEST FOR QUOTATION (RFQ)**

Procurement, Supply, Delivery and Installation of Solar Power Systems (Off-Grid) for Selected Communities and Households in Six (6) Previously Acknowledged Moro Islamic Liberation Front Camps (MILF) Camps

	DATE: December 6, 2018
	REFERENCE: PHL-RFQ-2018-238

Dear Sir / Madam:

We kindly request that you submit your quotation for the **Procurement, Supply, Delivery and Installation** of Solar Power Systems (Off-Grid) for Selected Communities and Households in Six (6) Previously Acknowledged **Moro Islamic Liberation Front Camps (MILF) Camps**, as detailed in Annex 1 of this RFQ. When preparing your quotation, please be guided by the form attached hereto as Annex 2.

Quotations may be submitted on or before **17 December 2018, 11:00 AM Philippine Time,** and via **\(\infty\)** *e-mail,*  $\Box$  *courier mail* or  $\Box$  *facsimile* to the address below:

United Nations Development Programme
15<sup>Th</sup> Floor, North Tower, Rockwell Business Center Sheridan
Sheridan Street corner United Street, Brgy. Highway Hills,
Mandaluyong City
procurement.ph@undp.org

Quotations submitted by email must be limited to a maximum of 5MB, virus-free and no more than 3 email transmissions. They must be free from any form of virus or corrupted contents, or the quotations shall be rejected.

It shall remain your responsibility to ensure that your quotation will reach the address above on or before the deadline. Quotations that are received by UNDP after the deadline indicated above, for whatever reason, shall not be considered for evaluation. If you are submitting your quotation by email, kindly ensure that they are signed and in the .pdf format, and free from any virus or corrupted files.

Please take note of the following requirements and conditions pertaining to the supply of the abovementioned good/s:

Delivery Terms [INCOTERMS 2010] [Pls. link this to price schedule]   Got		
CICIP	Delinem Terres	□FCA
Customs clearance, if needed, shall be done by: SunDP SunDP Supplier/Offeror Supplier/Offeror Supplier/Sidentify all, if multiple)  Exact Address/es of Delivery Location/s (identify all, if multiple)  - LOT 1 - Camp Abubakar, Mindanao: DAP off-loaded, 117 beneficiaries located in Maguindanao, Philippines (Incoterms 2010).  - LOT 2 - Camp Rajamuda, Mindanao: DAP off-loaded, 117 beneficiaries located in Maguindanao, Philippines (Incoterms 2010).  - LOT 3 - Camp Omar, Mindanao: DAP off-loaded, 117 beneficiaries located in Maguindanao, Philippines (Incoterms 2010).  - LOT 4 - Camp Badre, Mindanao: DAP off-loaded, 117 beneficiaries located in Maguindanao, Philippines (Incoterms 2010).  - LOT 5 - Camp Bilal, Mindanao: DAP off-loaded, 117 beneficiaries located in Lanao del Norte and Lanao del Sur, Philippines (Incoterms 2010).  - LOT 6 - Camp Bushra, Mindanao: DAP off-loaded, 117 beneficiaries located in Lanao del Sur, Philippines (Incoterms 2010).  - LOT 6 - Camp Bushra, Mindanao: DAP off-loaded, 117 beneficiaries located in Lanao del Sur, Philippines (Incoterms 2010).  - LOT 6 - Camp Bushra, Mindanao: DAP off-loaded, 117 beneficiaries located in Lanao del Sur, Philippines (Incoterms 2010).  - LOT 6 - Camp Bushra, Mindanao: DAP off-loaded, 117 beneficiaries located in Lanao del Sur, Philippines (Incoterms 2010).  - LOT 6 - Camp Bushra, Mindanao: DAP off-loaded, 117 beneficiaries located in Lanao del Sur, Philippines (Incoterms 2010).  - LOT 6 - Camp Bushra, Mindanao: DAP off-loaded, 117 beneficiaries located in Lanao del Sur, Philippines (Incoterms 2010).  - LOT 6 - Camp Bushra, Mindanao: DAP off-loaded, 117 beneficiaries located in Lanao del Sur, Philippines (Incoterms 2010).  - LOT 6 - Camp Bushra, Mindanao: DAP off-loaded, 117 beneficiaries located in Lanao del Sur, Philippines (Incoterms 2010).  - LOT 6 - Camp Bushra, Mindanao: DAP off-loaded, 117 beneficiaries located in Lanao del Sur, Philippines (Incoterms 2010).  - LOT 6 - Camp Bushra, Mindanao: DAP off-loaded, 117 beneficiaries located in Lanao del Sur, Phil	1	
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Delivery Schedule □Not Required		⊠Required
	Delivery Schedule	□Not Required

Packing Requirements					
	⊠ AIR	⊠LAND			
Mode of Transport	⊠SEA	□OTHER			
	☐United States Dollars				
Preferred	□Euro				
Currency of Quotation	☑Local Currency : Philippine Peso				
Value Added Tax on Price	☐ Must be inclusive of	VAT and other applicable indirect taxes			
Quotation	☑ Must be exclusive of	VAT and other applicable indirect taxes			
	UNDP in Philippines is e	exempt from VAT for goods but not for services.			
		ut VAT and indicate the VAT amount separately if			
	applicable on services.				
After-sales services required	<b>⊠</b> Warranty on Parts a	nd Labor for minimum period of 1 year			
	☑Technical Support				
	☑ Provision of Service	Unit when pulled out for maintenance/ repair			
	☐ Others				
Deadline for the Submission of	Monday, December 17, 2018 , 11:00 a.m., Philippine Time				
Quotation					
All documentations, including	⊠ English				
catalogs, instructions and	☐ French				
operating manuals, shall be in	☐ Spanish				
this language	☐ Others				
	☑ Duly Accomplished Form as provided in Annex 2, and in accordance				
Documents to be submitted	with the list of requirements in Annex 1;				
	☑ A statement whether any import or export licenses are required in				
		be purchased including any restrictions on the			
	disposition to end user	dual use nature of goods or services, including and s;			
	☐ Confirmation that lic	enses of this nature have been obtained in the past			
	and an expectation of c	btaining all the necessary licenses should the			
	quotation be selected;				
	☑ Quality Certificates	(ISO, etc.);			
	☑ Latest Business Regi				
	□ Latest Internal Reve	nue Certificate / Tax Clearance;			
	'	horization of the Company as a Sales Agent (if			
	1 7 7	ufacturer), [Note: Sub-contracting or re-selling is			
	not allowed for this eng	· ·			
		ive Distributorship in the country (if applicable, and			
	if Supplier is not the m	•			
		ion of Environmental Sustainability ("Green"			
	1	rany or the Product being supplied;			
	•	tation, information and declaration of any goods			
	•	ssified as "Dangerous Goods".  Certificates (if any of technologies submitted in the			
	quotation is patented l				
	1 .	tion of not being included in the UN Security Council			
		curement Division List or other UN Ineligibility List;			
		dders to provide a copy of at least two purchase			
	1	similar scope of work from past three years.			
		ouse(s) located within the Philippines			
	EN Office(5) and water	ouse(s) located within the Fillippines			

	☑ Bidder will be required to submit a statement of all ongoing and completed government and private contracts indicating the project description, total amount per contract, and contact details (i.e., name of focal person, email and number) of the contracting party or procuring entity. Should have satisfactorily completed, within five (5) years upon receipt of bid documents, contract(s) similar to the Project with a contract cost of at least ten million pesos (PHP10,000,000.00). ☑ The supplier's Team Leader must have licensed PV Engineer with at least five (5) years' experience in solar panel installation. All other PV technicians must have at least three (3) years of experience in solar panel installation, preferably with the knowledge on the language and culture of the area.
Period of Validity of Quotes starting the Submission Date	☐ 60 days ☐ 90 days ☑ 120 days
	In exceptional circumstances, UNDP may request the Vendor to extend the validity of the Quotation beyond what has been initially indicated in this RFQ. The Proposal shall then confirm the extension in writing, without any modification whatsoever on the Quotation.
Partial Quotes	<ul> <li>✓ Not permitted</li> <li>☐ Permitted [pls. provide conditions for partial quotes, and ensure that requirements are properly listed to allow partial quotes (e.g., in lots, etc.)]</li> <li>✓ 100% year appropriate delivery of goods</li> </ul>
Payment Terms	<ul><li>■ 100% upon complete delivery of goods</li><li>□ Others</li></ul>
Liquidated Damages	<ul> <li>☑ Will not be imposed</li> <li>□ Will be imposed under the following conditions:</li> <li>Percentage of contract price per day of delay:</li> <li>Max. no. of days of delay:</li> <li>After which UNDP may terminate the contract.</li> </ul>
Evaluation Criteria [check as many as applicable]	<ul> <li>☑ Technical responsiveness/Full compliance to requirements and lowest price - The evaluation will be based on lowest price, technical compliance for each lot separately</li> <li>☑ Comprehensiveness of after-sales services</li> <li>☑ Full acceptance of the PO/Contract General Terms and Conditions [this is a mandatory criterion and cannot be deleted regardless of the nature of services required]</li> <li>☑ Confirmation to delivery timelines</li> <li>☐ Others [pls. specify]</li> </ul>
UNDP will award to:	<ul> <li>☐ One and only one supplier</li> <li>☑ One or more Supplier – UNDP may award contracts to multiple bidders, separately for each lot.</li> <li>The evaluation will be based on lowest price, technical compliance for each lot separately.</li> </ul>
Type of Contract to be Signed	☑ Purchase Order

	☑ Contract Face Sheet (Goods and-or Services) UNDP (this template is also utilised for Long-Term Agreement¹
	☐ Other Type/s of Contract
Contract General Terms and	☑ General Terms and Conditions for contracts (goods and/or
Conditions	services)
	☐ General Terms and Conditions for de minimi contracts (services
	only, less than \$50,000)
	Applicable Terms and Conditions are available at
	http://www.undp.org/content/undp/en/home/procurement/busines
	s/how-we-buy.html
	3/110W-We-buy.item
Special conditions of Contract	☑ Cancellation of PO/Contract if the delivery/completion is delayed by 30
·	days
	☐ Others [pls. specify]
	▶ Ferdito-deletated pseudocial of F d 2.
Conditions for Release of	☑ Passing Inspection
Payment	□ Complete Installation
	☑ Passing all Testing
	☑ Completion of Training on Operation and Maintenance
	☑ Written Acceptance of Goods based on full compliance with RFQ
	requirements
	☐ Others
Annexes to this RFQ	☑ Specifications of the Goods Required (Annex 1)
	☑ Form for Submission of Quotation (Annex 2)
	☑ General Terms and Conditions / Special Conditions:
	http://www.undp.org/content/undp/en/home/procurement/busines
	s/how-we-buy.html
	☐ Others
	Non-acceptance of the terms of the General Terms and Conditions (GTC)
	shall be grounds for disqualification from this procurement process.
	Rose Rivera
Contact Person for Inquiries	Procurement Assistant
(Written inquiries only)	procurement.ph@undp.org
	Any delay in UNDP's response shall be not used as a reason for extending
	the deadline for submission, unless UNDP determines that such an
	extension is necessary and communicates a new deadline to the Proposers.
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Goods offered shall be reviewed based on completeness and compliance of the quotation with the minimum specifications described above and any other annexes providing details of UNDP requirements.

The quotation that complies with all of the specifications, requirements and offers the lowest price, as well as all other evaluation criteria indicated, shall be selected. Any offer that does not meet the requirements shall be rejected.

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Any discrepancy between the unit price and the total price (obtained by multiplying the unit price and quantity) shall be re-computed by UNDP. The unit price shall prevail and the total price shall be corrected. If the supplier does not accept the final price based on UNDP's re-computation and correction of errors, its quotation will be rejected.

After UNDP has identified the lowest price offer, UNDP reserves the right to award the contract based only on the prices of the goods in the event that the transportation cost (freight and insurance) is found to be higher than UNDP's own estimated cost if sourced from its own freight forwarder and insurance provider.

At any time during the validity of the quotation, no price variation due to escalation, inflation, fluctuation in exchange rates, or any other market factors shall be accepted by UNDP after it has received the quotation. At the time of award of Contract or Purchase Order, UNDP reserves the right to vary (increase or decrease) the quantity of services and/or goods, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.

Any Purchase Order that will be issued as a result of this RFQ shall be subject to the General Terms and Conditions attached hereto. The mere act of submission of a quotation implies that the vendor accepts without question the General Terms and Conditions of UNDP indicated above - <a href="http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html">http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html</a>.

UNDP is not bound to accept any quotation, nor award a contract/Purchase Order, nor be responsible for any costs associated with a Supplier's preparation and submission of a quotation, regardless of the outcome or the manner of conducting the selection process.

Please be advised that UNDP's vendor protest procedure is intended to afford an opportunity to appeal for persons or firms not awarded a purchase order or contract in a competitive procurement process. In the event that you believe you have not been fairly treated, you can find detailed information about vendor protest procedures in the following link:

http://www.undp.org/content/undp/en/home/operations/procurement/protestandsanctions/

**UNDP encourages every prospective Vendor to** avoid and prevent conflicts of interest, by disclosing to UNDP if you, or any of your affiliates or personnel, were involved in the preparation of the requirements, design, specifications, cost estimates, and other information used in this RFQ.

UNDP implements a zero tolerance on fraud and other proscribed practices, and is committed to identifying and addressing all such acts and practices against UNDP, as well as third parties involved in UNDP activities. UNDP expects its suppliers to adhere to the UN Supplier Code of Conduct found in this link: http://www.un.org/depts/ptd/pdf/conduct\_english.pdf

Thank you and we look forward to receiving your quotation.

## **Technical Specifications (Minimum Specifications)**

UNDP requires the services of an agency for Procurement, Supply, Delivery and Installation of Solar Power Systems (Off-Grid) for Selected Communities and Households in Six (6) Previously Acknowledged Moro Islamic Liberation Front Camps (MILF) Camps. The requirement is for 6 camps (lot) and four types of solar panels (kits).

The details of quantities required under each lot and kit is as below:

Lots	CAMP	Kit -A 30wp	Kit-B 50wp	Kit-C 50wp	Kit-D 120wp
Lot-1	Abubakar	93	2	20	2
Lot-2	Rajamuda	93	2	20	2
Lot-3	Omar	93	2	20	2
Lot-4	Badre	93	2	20	2
Lot-5	Bilal	93	2	20	2
Lot-6	Bushra	93	2	20	2
	Total no. of units	558	12	120	12

# 1. Technical specifications for each solar panel system Kit

## 1.1 Solar Kit A - 30 Watts (558 units)

		Your response				
		Compliance w	ith <u>MINIMUM</u>	Delivery	Quality	
		technical sp	ecifications	Date	Certificate/	
Solar Kit A – 30 Watts (558 units)	Description and minimum/mandatory specifications	Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)	Export Licenses, etc. (indicate all that apply and attach)	
Component No. 1 Pl	hotovoltaic Panel					
Item 1.1	- 30 watts Photovoltaic					
Photovoltaic	Modules per package					
Modules	- Rated power per module:					
	<u>0.833W</u>					
	- Total Rated Power: <u>30W</u>					
	- PV Module Specifications at					
	Standard Test Condition (STC)					
	as per ISO ROHS IEC 61215					
	Certification:					
	Maximum Power at STC:					
	<u>30W</u>					

		Your respon		onse	
		PARTIES CONTRACTOR CONTRACTOR CONTRACTOR	vith MINIMUM Decifications	Delivery Date	Quality Certificate/ Export Licenses, etc. (indicate all that apply and attach)
Solar Kit A – 30 Watts (558 units)	Description and minimum/mandatory specifications	Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)	
	Maximum Power Voltage:	opeomostion)			
	<ul> <li>17.80V</li> <li>Maximum Power Current:</li> <li>1.69A</li> <li>Open Circuit Voltage:</li> <li>21.60V</li> </ul>				
	• Short Circuit Current: 1.81A				
	<ul> <li>Module Efficiency: 17%</li> <li>Power Tolerance: 0~+3%</li> <li>Module Weight: 3.05KG</li> <li>Maximum load (Snow/Wind): 1m/s</li> </ul>				
Item 1.2 Mounting	Guarantees: 1 year     Dimensions of the frame				
Structure	support shall accommodate the Structure				
	<ul> <li>Size of the solar modules: 650*360*30MM</li> <li>Frame material: aluminum</li> </ul>			1	
	<ul><li>alloy</li><li>Frame bolts and nuts:</li><li>M12*25*2</li></ul>				
ementages the entire the equipment of the entire the en	■ Pole Mount material: N/A	and annual and the first first of the second and th	The second of the second secon		and the second s
	<ul> <li>Foundation: N/A</li> <li>Mounting structure design:</li> <li>Wall mounted with set</li> </ul>				
Component No. 2 Cl	screw narge Controller and Inverter Unit				
Item 2.1 Charge	Nominal Voltage: 12v				
Controller	<ul><li>Input Voltage Range: 10.8~14.4V</li></ul>				
	Charging Current Rating: 20A  Resulting weether MARKET				
	<ul> <li>Regulation method: MPPT</li> <li>Charging Algorithm: 5-7</li> <li>Hours</li> </ul>		:		
	Full charge voltage: 12v				

			Your respo	inse	
			rith MINIMUM Decifications	Delivery Date	Quality Certificate/
Solar Kit A – 30 Watts (558 units)	Description and minimum/mandatory specifications	Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)	Export Licenses, etc. (indicate all that apply and attach)
Sports of the state of the stat	Float charge voltage: 12v				
Item 2.2 Inverter	<ul> <li>Operating Voltage: n/a.</li> <li>Low battery disconnect voltage: n/a.</li> <li>Battery reconnect voltage: n/a.</li> <li>Continuous AC Output Rating: n/a.</li> <li>Surge Capacity: n/a.</li> <li>Conversion Efficiency: n/a</li> <li>AC Output Voltage: n/a.</li> <li>AC Output Frequency: n/a.</li> <li>AC Output Waveform: n/a</li> <li>LED Status Indicators: n/a</li> <li>Audible Indicator: n/a</li> <li>Protections: n/a</li> <li>Thermal management: n/a</li> <li>Terminal connections: n/a</li> <li>AC Outlets: n/a</li> <li>Mounting: n/a</li> <li>Approvals &amp; Certification</li> </ul>				
	to recognized International				
Commonwet No. 3 For	Standards: n/a				
Battery	Battery Technology: <u>lead</u>				
	<ul> <li>acid battery</li> <li>Maintenance Type: <ul> <li>Maintenance free</li> </ul> </li> <li>Rating: A+ <ul> <li>Nominal Voltage: 12V</li> </ul> </li> <li>Full charge voltage: 14.4V</li> <li>Float charge voltage: 13.8V</li> </ul> <li>Minimum cycles at 30% <ul> <li>DOD: 1200</li> </ul> </li>				
	<ul> <li>Approvals &amp; Certification to recognized International Standards: ISO 9001</li> </ul>				

			Your respo	nse	
		Compliance w	rith MINIMUM pecifications	Delivery Date (confirm that you comply or indicate your delivery date)	Quality Certificate/ Export Licenses, etc. (indicate all that apply and attach)
Solar Kit A – 30 Watts (558 units)	Description and minimum/mandatory specifications	Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies		
	<ul> <li>Battery Box: 0 with lockable and insulated top cover</li> <li>Access for battery cable to inverter/charge controller</li> <li>Elevated from the floor by at least 5cm</li> </ul>				
	<ul> <li>Dimension of the metal enclosure to accommodate the batteries with 10% of free space on top between the batteries and the cover</li> <li>Battery Interconnection Cables: 16mm² cable</li> </ul>				
Component No. 4 Ca	ables and Peripherals				
4.1 PVwires	Yes, Junction Box with MC4				
combiner	(connect)				
4.2 PVto Controller/Inverter cable, maximum 20 meters	2.5mm² cable				
4.3 Controller/Inverter to Battery cable, maximum 2 meters	16mm² cable				
4.4 Inverter to load distribution panel cable, maximum 5 meters	Yes				
4.5 Load	DC 12V Charging Accessories and				
Distribution Panel	LED Lights				
4.6 LED Lamps	Rated wattages: 200000Hrs Input voltage: 12V Input frequency: 50-60Hz				

		Your response				
	atts minimum/mandatory		rith MINIMUM Decifications	Delivery Date	Quality Certificate/	
Solar Kit A – 30 Watts (558 units)		Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)	Export Licenses, etc. (indicate all that apply and attach)	
	Color: White	:				
	Correlated Color Temperature (CCT): 6000K					
	Color Rendering Index (CRI): 80					
	System Efficacy: <u>DC</u>					
	Lumen maintenance: 100LM/W					
	Base: E 27					
	Lamp holder and extension:					
	5M/10M Cable with switch					

# 1.2 Solar Kit B – 50 Watts (12 units)

			Your respo	nse	
		Complian MINIMUM specific	technical	Deliver y Date (confir	Quality Certificat e/
Solar Kit B – 50 Watts (12 units)	Description and minimum/mandatory specifications	Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification	No, we cannot comply -indicate discrepanc ies	m that you comply or indicat e your deliver y date)	Export Licenses, etc. (indicate all that apply and attach)
Component No. 1	Photovoltaic Panel				
Item 1.1	- 50 watts Photovoltaic Modules per				
Photovoltaic	package				
Modules	- Rated power per module: <u>1.388W</u>				
	- Total Rated Power: <u>50W</u> - PV Module Specifications at				
	Standard Test Condition (STC) as per				
	ISO ROHS IEC 61215 Certification:				
	Maximum Power at STC: 50W				
	Maximum Power Voltage:				
	<u>17.80V</u>				
	Maximum Power Current: <u>2.81A</u>				

	Description and minimum/mandatory specifications	Your response				
Solar Kit B – 50 Watts (12 units)		Complian MINIMUM specific Yes, we comply (indicate "no deviations" if offer is absolutely same with the	technical	Deliver y Date (confir m that you comply or indicat e your deliver y date)	Quality Certificat e/ Export Licenses, etc. (indicate all that apply and attach)	
		specification )		to make t		
	<ul> <li>Open Circuit Voltage: 21.60V</li> <li>Short Circuit Current: 3.01A</li> <li>Module Efficiency: 17%</li> <li>Power Tolerance: 0~+3%</li> <li>Module Weight: 3.85KG</li> <li>Maximum load (Snow/Wind): 1m/s</li> </ul>					
	• Guarantees: 1 year				<u> </u>	
Item 2.1 Charge Controller	<ul> <li>Charge Controller and Inverter Unit</li> <li>Nominal Voltage: 12V</li> <li>Input Voltage Range: 10.8~14.4V</li> <li>Charging Current Rating: 20A</li> <li>Regulation method: MPPT</li> <li>Charging Algorithm: 6-7 Hours</li> <li>Full charge voltage: 14.4V</li> <li>Float charge voltage: 13.8V</li> </ul>					
Item 2.2 Inverter	<ul> <li>Operating Voltage: 12V</li> <li>Low battery disconnect voltage: 10.8V</li> <li>Battery reconnect voltage: 12.6V</li> <li>Continuous AC Output Rating: 300W</li> </ul>					
	<ul> <li>Surge Capacity: 600VA</li> <li>Conversion Efficiency: ≥85%.</li> <li>AC Output Voltage: 220V/230V</li> <li>AC Output Frequency: 50HZ/60HZ</li> <li>AC Output Waveform: Pure sine wave</li> <li>LED Status Indicators: YES</li> <li>Audible Indicator: YES</li> <li>Protections: Overload protection, short circuit protection, Over temperature protection</li> </ul>					

			Your respo	sponse		
	Description and minimum/mandatory specifications	Complian MINIMUM specific	technical	Deliver y Date (confir	Quality Certificat e/ Export Licenses, etc. (indicate all that apply and attach)	
Solar Kit B – 50 Watts (12 units)		Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification	No, we cannot comply -indicate discrepanc ies	m that you comply or indicat e your deliver y date)		
36 - 4 C	Thermal management: <u>Air</u>			STATE PROPERTY OF THE STATE OF		
	cooling					
	• Terminal connections: <u>M5</u>					
	AC Outlets: <u>universal socket</u>					
	Mounting: inverter build in solar					
	kits ( with wheel ); panels can be					
	Wall mounted or DIN-Rail					
	Mounting Approvals & Cartification to					
	<ul> <li>Approvals &amp; Certification to recognized International</li> </ul>					
	Standards: <u>CE, RoHs, ISO</u>					
Component No. 3	Energy Storage Battery					
Battery	Battery Technology: lead acid					
	battery					
	Maintenance Type:					
	Maintenance free					
	• Rating: <u>A+</u>					
	Nominal Voltage: 12V					
	Full charge voltage: 14.4V.					
	• Float charge voltage: 13.8V.					
	Minimum cycles at 30% DOD:					
	1200					
	Approvals & Certification to  recognized International					
	recognized International Standards: ISO 9001					
	Battery Box: 0 with lockable and					
	insulated top cover					
	Access for battery cable to					
	inverter/charge controller					
	o Elevated from the floor by at					
	least 5cm					
	o Dimension of the metal					
	enclosure to accommodate					
	the batteries with 10% of					
	free space on top between					
	the batteries and the cover					

	Description and minimum/mandatory specifications	Your response				
		Complian  MINIMUM  specific	_technical	Deliver y Date (confir	Quality Certificat e/ Export Licenses, etc. (indicate all that apply and attach)	
Solar Kit B – 50 Watts (12 units)		Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification	No, we cannot comply -indicate discrepanc ies	m that you comply or indicat e your deliver y date)		
P. D. George and Control of the Cont	Battery Interconnection Cables:     16mm² cable		and the second s			
Component No. 4	Cables and Peripherals					
4.1 PVwires combiner	Yes, Junction Box with MC4 (connect )					
4.2 PVto Controller/Inverte r cable, maximum 20 meters	2.5mm² cable					
4.3 Controller/Inverte r to Battery cable, maximum 2 meters	16mm² cable					
4.4 Inverter to load distribution panel cable, maximum 5 meters	Yes					
4.5 Load Distribution Panel	Such as AC TV, fan, Lamp and others					
4.6 LED Lamps	Rated wattages: 200000Hrs Input voltage: 12V Input frequency: 50-60 Hz Color: White Correlated Color Temperature (CCT): 6000K Color Rendering Index (CRI): 80 System Efficacy: DC Lumen maintenance: 100LM/W Base: E 27 Lamp holder and extension: 5M/10M Cable with switch					

# 1.3 Solar Kit C – 120 Watts (120 units)

	atts minimum/mandatory	Your response			
			Compliance with MINIMUM technical specifications		Quality Certificate/
Solar Kit C – 120 Watts (120 units)		Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)	Export Licenses, etc. (indicate all that apply and attach)
Component No. 1 P	hotovoltaic Panel				
Item 1.1 Photovoltaic Modules	- 120 watts Photovoltaic Modules per package - Rated power per module: 3.333W - Total Rated Power: 120W - PV Module Specifications at Standard Test Condition (STC) as per ISO ROHS IEC 61215 Certification: • Maximum Power at STC: 120W • Maximum Power Voltage: 17.80V • Maximum Power Current: 6.75A • Open Circuit Voltage: 21.60V • Short Circuit Current: 7.22A • Module Efficiency: 17% • Power Tolerance: 0~+3% • Module Weight: 8.70KG • Maximum load (Snow/Wind): 1m/s				
	Guarantees: 1 year				
Component No. 2 Ir	7				
Item 2.1 Inverter (600W)	<ul> <li>Operating Voltage: 12V</li> <li>Low battery disconnect voltage: 10.8V</li> <li>Battery reconnect voltage: 12.6V</li> <li>Continuous AC Output Rating: 600W</li> <li>Surge Capacity: 1200VA</li> </ul>				

			Your respo	Your response		
		The state of the second of the	ith MINIMUM pecifications	Delivery Date	Quality Certificate/	
Solar Kit C – 120 Watts (120 units)	Description and minimum/mandatory specifications	Yes, we comply cannot that you comply (indicate "no deviations" if offer is absolutely (confirm that you comply comply comply indicate or indicate your	indicate your delivery	Export Licenses, etc. (indicate all that apply and attach)		
	<ul> <li>Conversion Efficiency:         ≥85%</li> <li>AC Output Voltage:         220V/230V</li> <li>AC Output Frequency:         50HZ/60HZ</li> <li>AC Output Waveform:         Pure sine wave</li> <li>LED Status Indicators: YES</li> <li>Audible Indicator: YES</li> <li>Protections: Overload protection, Short circuit protection, Over temperature protection</li> <li>Thermal management: Air cooling</li> <li>Terminal connections: M5</li> <li>AC Outlets: universal socket</li> <li>Mounting: inverter build in solar kits ( with wheel ); panels can be Wall mounted or DIN-Rail Mounting</li> <li>Approvals &amp; Certification to recognized International Standards: CE, ROHs, ISO</li> </ul>					
Component No. 3 En	ergy Storage Battery					
Battery	<ul> <li>Battery Technology: lead acid battery</li> <li>Maintenance Type: Maintenance free</li> <li>Rating: A+</li> <li>Nominal Voltage: 12V</li> <li>Full charge voltage: 14.4V</li> <li>Float charge voltage: 13.8V</li> </ul>					

		Your response				
			ith MINIMUM pecifications	Delivery Date	Quality Certificate/	
Solar Kit C – 120 Watts (120 units)	Description and minimum/mandatory specifications	Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)	Export Licenses, etc. (indicate all that apply and attach)	
	Minimum cycles at 30%	specification)			1	
	<ul> <li>DOD: 1200</li> <li>Approvals &amp; Certification to recognized</li> <li>International Standards:</li> <li>ISO 9001</li> </ul>					
	Battery Box: 0 with lockable and insulated top cover					
	<ul> <li>Access for battery         <ul> <li>cable to</li> <li>inverter/charge</li> <li>controller</li> </ul> </li> </ul>					
	<ul> <li>Elevated from the floor</li> <li>by at least 5cm</li> <li>Dimension of the</li> <li>metal enclosure to</li> </ul>					
	accommodate the batteries with 10% of free space on top between the batteries					
	<ul><li>and the cover</li><li>Battery Interconnection</li></ul>					
·	Cables: <u>16mm² cable</u>					
<u>'</u>	ables and Peripherals					
4.1 PVwires combiner	Yes, Junction Box with MC4 (connect)					
4.2 PVto Controller/Inverter cable, maximum 20 meters	2.5mm² cable					
4.3 Controller/Inverter to Battery cable, maximum 2 meters	16mm² cable					
4.4 Inverter to load distribution panel cable,	Yes					

	Description and minimum/mandatory specifications	Your response				
			ith MINIMUM pecifications	Delivery Date	Quality Certificate/ Export Licenses, etc. (indicate all that apply and attach)	
Solar Kit C — 120 Watts (120 units)		Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)		
maximum 5 meters						
4.5 Load	Such as AC & DC TV, fan, lamp,					
Distribution Panel	computer and many more					
4.6 LED Lamps	Rated wattages: 200000Hrs Input voltage: 12V Input frequency: 50-60Hz Color: White Correlated Color Temperature (CCT): 6000K Color Rendering Index (CRI): 80 System Efficacy: DC Lumen maintenance: 100LM/W Base: E 27 Lamp holder and extension: 5M/10M Cable with switch					

# 1.4 Solar Street Light – SSL 50 Watts (12 units)

			Your respo	onse	
			rith <u>MINIMUM</u> pecifications	Delivery Date	Quality Certificate/
D. Solar Street Light — SSL 50 Watts (12 units)	Description and minimum/mandatory specifications	Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)	Export Licenses, etc. (indicate all that apply and attach)
Component No. 1 Ph	notovoltaic Panel				
Item 1.1 Photovoltaic Modules	<ul> <li>50 watts Photovoltaic         Modules per package</li> <li>Rated power per module:         <ul> <li>1.388W</li> </ul> </li> <li>Total Rated Power: 50W</li> </ul>				

		F-12-18-18-18-18-18-18-18-18-18-18-18-18-18-	Your respo	onse	
		technical sp	rith MINIMUM pecifications	Delivery Date	Quality Certificate/
D. Solar Street Light – SSL 50 Watts (12 units)	Description and minimum/mandatory specifications	Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)	Export Licenses, etc. (indicate all that apply and attach)
	- PV Module Specifications at Standard Test Condition (STC) as per ISO ROHS IEC 61215 Certification:  • Maximum Power at STC: 50W  • Maximum Power Voltage: 17.80V  • Maximum Power Current: 2.81A  • Open Circuit Voltage: 21.60V  • Short Circuit Current: 3.01A  • Module Efficiency: 17%  • Power Tolerance: 0~+3%  • Module Weight: 3.85KG  • Maximum load (Snow/Wind): 1m/s  • Guarantees: 5 years	**Specification)			
Item 1.2 Mounting Structure	<ul> <li>Dimensions of the frame support shall accommodate the Structure</li> <li>Size of the solar modules: 650*360*30MM</li> <li>Frame material: aluminum alloy</li> <li>Frame bolts and nuts: M12*25*2</li> <li>Pole Mount material: Hot Dipped Galvanized</li> <li>Foundation: Concrete Pedestal</li> <li>Mounting structure design: Pole mounted with set screw</li> </ul>				

		Your response			
			rith MINIMUM Decifications	Delivery Date	Quality Certificate/
D. Solar Street Light – SSL 50 Watts (12 units)	Description and minimum/mandatory specifications	Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)	Export Licenses, etc. (indicate all that apply and attach)
Component No. 2 Ch	arge Controller and Inverter Unit				
Item 2.1 Charge	Nominal Voltage: 12V				
Controller	• Input Voltage Range: 10.8~14.4V				
	Charging Current Rating:     20A				
	<ul> <li>Regulation method: MPPT</li> <li>Charging Algorithm: 6-8         hours charging     </li> </ul>				
	<ul><li>Full charge voltage: <u>12V</u></li><li>Float charge voltage: <u>12V</u></li></ul>				
Item 2.2 Inverter	<ul> <li>Operating Voltage: n/a.</li> <li>Low battery disconnect voltage: n/a.</li> <li>Battery reconnect voltage: n/a.</li> <li>Continuous AC Output Rating: n/a.</li> <li>Surge Capacity: n/a.</li> <li>Conversion Efficiency: n/a</li> <li>AC Output Voltage: n/a.</li> <li>AC Output Frequency: n/a.</li> <li>AC Output Waveform:</li> </ul>				
	<ul> <li>AC Output Wavelorm: n/a.</li> <li>LED Status Indicators: n/a.</li> <li>Audible Indicator: n/a.</li> <li>Protections: n/a.</li> <li>Thermal management: n/a.</li> <li>Terminal connections: n/a.</li> <li>AC Outlets: n/a.</li> <li>Mounting: n/a.</li> <li>Approvals &amp; Certification to recognized n/a. International Standards: n/a.</li> </ul>				

	Description and minimum/mandatory specifications	Your response			
			rith MINIMUM Decifications	Delivery Date	Quality Certificate/
D. Solar Street Light – SSL 50 Watts (12 units)		Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)	Export Licenses, etc. (indicate all that apply and attach)
Component No. 3 E	nergy Storage Battery				
Battery	Battery Technology: <u>lead</u>				
	acid battery				
	Maintenance Type:				
	<u>Maintenance free</u>				
	Rating: <u>A+</u>				
	<ul> <li>Nominal Voltage: <u>12V</u></li> </ul>				
	<ul> <li>Full charge voltage: <u>14.4V</u>.</li> </ul>				
	<ul> <li>Float charge voltage:</li> </ul>				
	13.8V.				
	<ul> <li>Minimum cycles at 30%</li> </ul>				
	DOD: <u>1200</u>				
	Approvals & Certification				
	to recognized				
	International Standards:				
	ISO 9001				
	Battery Box: 0 with				
	lockable and insulated top				
	cover				
	o Access for battery				
	cable to				
	inverter/charge				
	controller				
	o Elevated from the				
	floor by at least 5cm			:	
	o Dimension of the				
	metal enclosure to				
	accommodate the				
	batteries with 10% of				
	free space on top				
	between the batteries				
	and the cover				
	Battery Interconnection				
	Cables: 16mm² cable				
	ables and Peripherals				
4.1 PVwires	Yes, junction box with MC4				
combiner					
4.2 PVto	2.5mm² cable				
Controller/Inverter					

D. Solar Street Light – SSL 50 Watts (12 units)	Description and minimum/mandatory specifications	Your response				
			rith MINIMUM Decifications	Delivery Date	Quality Certificate/ Export Licenses, etc. (indicate all that apply and attach)	
		Yes, we comply (indicate "no deviations" if offer is absolutely same with the specification)	No, we cannot comply -indicate discrepancies	(confirm that you comply or indicate your delivery date)		
cable, maximum 20 meters		a specification)				
4.3 Controller/Inverter to Battery cable, maximum 2 meters	16mm² cable					
4.4 Inverter to load distribution panel cable, maximum 5 meters	YES .					
4.5 Load Distribution Panel	LED Lamp					
4.6 LED Lamps	Rated wattages: 15 Watts Input voltage: 12V Input frequency: 50-60Hz Color: White Correlated Color Temperature (CCT): 6000K Color Rendering Index (CRI): 80 System Efficacy: DC Lumen maintenance: 100LM/W Base: N/A Lamp holder and extension: With Arms					

# 2. Training

Training Component	Description and minimum/mandatory specifications
	The awarded supplier will provide training services, including training material and on-site training session, before installation of Solar Power System kits at each camp.
	The duration of each training will be of a minimum of 4 hours, delivered face to face at each camp to a group of 10 selected technicians.
	A training checklist will be signed by the participants after the training is conducted.  Training Checklist template will be provided by OPAPP Central Office.
	<ul> <li>Installed solution in the target household/communal facility will be used for the face to face training.</li> </ul>

- Training Manuals in Hardcopies and softcopies (in DVD) shall be provided to each camp.
- Supplier shall produce Orientation Handbook and deliver one hard copy to each target beneficiary.
- Training content shall include the following;

#### Solar Power System

- a) Basic operations of the solar energy system equipment
- b) Load management
- c) Basic maintenance of the solar energy system equipment.
- d) Basic troubleshooting of the solar system equipment
- e) Orientation on the warranty and reporting procedure

#### 3. Installation

# Installation Services Component

The supplier must provide installation services through a Local Company established in The Philippines (please refer to the Bid Data Sheet for further details on the required Organizational Set Up).

In case the Main Bidder is not a Philippine company, a signed/notarized agreement between the bidder and affiliated local service partner shall be included in the submission. A valid and current Business Permit shall be attached in the agreement.

The bidders must submit the List of Service Centers, along with the contact details of the local support team members and local service manager/s.

Local Service Providers' minimum qualifications:

- a) The Local Service Provider must be established in the Philippines and be authorized by the manufacturers of the goods offered to provide technical support services within the country.
- b) The Local Service Provider must cover technical support centers in all main areas of the country: Metro Manila, Cebu and Davao. The bidder is requested to provide details of the capacity of each of the local technical service providers which they intend to partner with.
- c) The supplier must ensure that there is a sufficient number of space parts at the Local Service Providers' premises, which are readily available to ensure timely responses and solutions.
- d) The Local Service Provider's personnel must comply with the following qualifications;
- Employing at least 1 qualified PV engineer who must have participated in at least 1 of the PV trainings.

#### Installation requirements:

The installation of the equipment at the camps will commence upon delivery of the goods.

The bidders are requested to provide a preliminary installation plan, covering the six camps, organized by barangay complying with the requested implementation timelines.

Installation set-up:

All necessary cables, adaptors and connections must be provided by the supplier in order to complete a functional installation of the solution supplied to each household/communal facility.

The mounting structure with solar modules must be placed on the roof of the household/communal facility with maximum solar exposure, free from shading, accessible for maintenance and repair, within an area not to exceed the total cable length from the solar array to the charge controller of 20 meters. The three solar modules to be connected in parallel via MC4 3 to 1 combiners. The cable from the solar array to the charge controller shall enter household/communal facility with a drip loop to avoid entry of water into the house/building structure. The cables shall be fastened with cable ties, clamps and staple wires.

#### Solar kit enclosure

A metal enclosure with handle where the charge controller, inverter, battery, load was placed. The AC/DC switch, battery level indicator, solar charging indicator, AC/DC voltage indicator, USB charging slot, battery breaker, and solar input are integrated on the enclosure shall be installed inside the house/building in a location where they can be securely mounted and does not obstruct the path of the beneficiaries. The charge controller/inverter unit shall be mounted on a wall above the battery box containing the three batteries with a maximum cable length from the battery terminal to the inverter input of 2 meters.

The LED lamps shall be screwed into the e27 sockets and mounted on the ceiling of the classroom. The lamps shall be plugged to the Load Distribution panel where they can be individually switched.

The PV panels, mounting structure shall bear a sticker with JTFCT acronym. Stickers to be provided by the supplier according to the following specifications:

- Self-adhesive thick and waterproof resistant vinyl material stickers with glossy finish.
- Pre-printed in 1 colors on white background
- o Approximate size: 2 x 2 inches

Strong glue ensure that the stickers will not be easily detached/unglued, especially in hot, very humid and rainy weather conditions.

## 4. Warranty and Technical Support

# Warranty and Technical Support Services Component

Warranty coverage and after sale technical support services are required for the Solar Power System for a period 1 year.

The Solar Power System is subject to functional warranty to ensure that it will be in good running condition, providing electricity.

The warranty for all items and components will commence after the items have been delivered and installed, on the same day that the solution has been accepted by the End User.

The warranty shall be provided by the manufacturer. In case that the manufacturers' warranty for any item is inferior to 1 year, the remaining period shall be covered by the supplier.

The supplier will be requested to provide all necessary licenses and certificates that confirm that end user will receive 1 year of support service from the manufacturers or from the supplier.

#### **Technical Support Service Requirements:**

- 1. JTFCT will provide feed backing system to be used as a tool of the suppliers, beneficiaries to report/monitor deployment and process technical support reported by the recipients.
  - o The supplier will be requested to provide the Company profiles and Technical Support contact details to be uploaded in the system. Two (2) different mobile numbers from the maintain telephone companies to be provided and to be operational at least 8 hours/day and 5 days/week (business hours and days), including the website address and email address.
- 2. The supplier shall act on all reported issues by deploying support technicians for troubleshooting, and repair purposes or telephone assistance, as necessary.
- 3. Requested resolution times:
  - Seven-day guarantee to repair the system or unit/s upon receipt of the request.
  - o In case unit/s cannot be repaired within the seven (7) day guarantee period, the unit/s must be placed within a maximum of fourteen (14) calendar days. Replacement must be installed prior to the pull out of the defective or unrepairable unit/s.
- 4. No pull-out of any equipment for repair/replacement shall be made without written authorization from the supplier duly approved by the JTFCTs or his/her authorized representative.
- 5. Supplier shall submit monthly summary reports of received, resolved, pending and closed issues to the end-user.

All Service Level Agreement (SLA) covering all the requirements above will be signed with the awarded supplier.

#### 5. Delivery sites for inspection and storage prior to on-site installation

The SPS kits in listed in the preceding section, including ancillary components (if any), shall be delivered to the following camps for inspection and storage prior to on-site installation:

САМР	TARGET SITES	DROP OFF POINT	
Abubakar-as-	Guiling, Alamada, North Cotabato	Nursery Making, Parang,	
Siddique in Maguindanao	Pabrica Marogong, Lanao del Sur	Maguindanao	
	Kilangan, Pagalungan, Maguindanao		
Rajamuda in North Cotabato	Dalgan, Pangalungan, Maguindanao	Brgy. Kilangan, Pagalungan, Maguindanao	
Cottabato	Sitio Singko, Kudal, Pagalungan, Maguindanao	Tagarangan, magamaana	

	Sadangen, General Salipada K. Pendatun, Maguindanao	
Omar Ibn al-Khattab in Maguindanao	Datu Hoffer, Maguindanao	Barangay Tuayan, Datu Hoffer, Maguindanao
	Brgy. Saniag, Ampatuan, Maguindanao	Sitio Upper Malating
	Kenebeka, Datu Odin Sinsuat	Poblacion Dalican, Datu
Budge to	Sibuto, Datu Odin Sinsuat	Odin Sinsuat
Badre in	Sitio Katulanga, Datalpandan, Guindulungan	Brgy. Datal Pandan,
Maguindanao	Ahan, Guindulungan	Guindulungan
	Sifaran, Datu Odin Sinsuat	Brgy. Kurintem, Datu Odin Sinsuat
Bilal spanning Lanao	Sitio Bandara-inged, Munai, Lanao del Norte	Brgy. Dilabayan,
del Norte and Lanao del Sur	Lamaosa, Tangcal, Lanao del Norte	Kauswagan, Lanao del Norte
Bushra Somiorang in Lanao del Sur	Brgy. Wago, Lumbayanague, Lanao del Sur	Brgy. Wago, Lumbayanague, Lanao del Norte

<sup>\*</sup>Pls. attach delivery schedule, if relevant, and cluster by lot, if partial bids will be allowed. Specify delivery locations if goods multiple destinations.

## Annex 2

# FORM FOR SUBMITTING SUPPLIER'S QUOTATION (This Form must be submitted only using the Supplier's Official Letterhead/Stationery)

We, the undersigned, hereby accept in full the UNDP General Terms and Conditions, an
hereby offer to supply the items listed below in conformity with the specification and requirement
of UNDP as per RFQ Reference No:

TABLE 1: Offer to Supply Goods Compliant with Technical Specifications and Requirements

Kit	Description	QTY	Unit Price (VAT exempt)	Total Price (VAT exempt)
Kit-A	30wp	558		
Kit-B	50wp (general)	12		
Kit-C	50wp (street light)	12		
Kit-D	120wp	120		
	1		Total (PHP)	100

# **TABLE 2: Total cost**

Bidders may choose to quote for one or multiple lots. Please use the table below to select the lot for which the bid is being submitted. Evaluation will be carried out separately for each lot.

	Lot-1	Lot-2	Lot-3	Lot-4	Lot-5	Lot-6
Total cost for Equipment						
Transportation/Delivery Cost						Delivery at Barangay Wago,
Installation to all sites		:				Lumbayanague Not required
Testing/Integration/Commissioning at all sites						Not required
Training at site (including User Manuals)						Training at Barangay Wago, Lumbayanague
Warranty						
GRAND TOTAL						

**TABLE 3: Offer to Comply with Other Conditions and Related Requirements** 

Other Information pertaining to our	Your Responses			
Quotation are as follows :	Yes, we will comply	No, we cannot comply	If you cannot comply, pls. indicate counter proposal	
Delivery Lead Time				
Estimated weight/volume/dimension of the Consignment:				
Country/ies Of Origin <sup>2</sup> :				
Warranty and After-Sales Requirements				
a) Training on Operations and Maintenance				
b) Minimum one (1) year warranty on both parts and labor				
<ul> <li>c) Service Unit to be Provided when the Purchased Unit is Under Repair</li> </ul>				
d) Brand new replacement if Purchased Unit is beyond repair				
e) Others				
Validity of Quotation				
All Provisions of the UNDP General Terms and Conditions				
Other requirements [pls. specify]				

All other information that we have not provided automatically implies our full compliance with the requirements, terms and conditions of the RFQ.

[Name and Signature of the Supplier's Authorized Person] [Designation] [Date]

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 $<sup>^2</sup>$  If the country of origin requires Export License for the goods being procured, or other relevant documents that the country of destination may require, the supplier must submit them to UNDP if awarded the PO/contract.

Lot wise list of locations for supply of panels (Delivery), Installation, Testing/Integration/Commissioning and Training at site is as below:

Lot 1 - CAMP ABUBAKAR

S.I.	Target Delivery Location	Qty.
Lot 1 -	Bayanga Sur, Matanog, Mag.	2
Kit A	Bongabong, Kapatagan, LDS	2
	Bualan, Barira, Maguindanao	2
	Budas, Balabagan Lanao del Sur	1
	Bugasan Norte, Matanog, Mag.	1
	Bugasan Sur, Matanog, Mag.	2
	Calaan, Buldon, Maguindanao	4
	Dado, Alamada, North Cot.	1
	Daguan, Kapatagan, LDS	1
	Giling, Alamada, North Cot.	3
	Karim, Buldon, Maguindanao	1
	Karusoyan, Barira, Maguindanao	1
	Kulimpang, Buldon, Maguindanao	2
	Lamin, Barira, Maguindanao	6
	Liong, Barira, Maguindanao	2
	Lipawan, Barira, Maguindanao	3
	Lusain, Kapatagan, LDS	2
	Maniyon, Parang, Maguindanao	1
	Mataya, Buldon, Maguindanao	1
	Minabai, Buldon, Maguindanao	1
	Nabalawag, Barira, Maguindanao	21
	Nuyo, Buldon, Maguindanao	1
	Pabrika, Marogong, LDS	1
	Panggao, Barira, Maguindanao	1
	Piers, Buldon, Maguindanao	1
	Pob. Barira, Barira, Maguindanao	5
	Rumidas, Buldon, Maguindanao	3
	Salamen, Kapatagan, LDS	1
	Sapad, Matanog, Maguindanao	4
	Sitio Lagaan, Sapad, Matanog, Mag.	1
	Tabuan, Kapatagan, LDS	3
	Tugaig, Barira, Mag.	3
	Tugaig, Barira, Maguindanao	9
Lot 1 -	Brgy. Nabalawag, Barira, Maguindanao	1
Kit B	Brgy. Tugaig, Barira, Maguindanao	1
Lot 1 -	Kapatagan, LDS	4
Kit C	Nabalawag, Barira, Maguindanao	8
	Sapad, Matanog, Maguindanao	2

	Tugaig, Barira, Maguindanao	6
Lot 1 -	Brgy. Nabalawag, Barira, MAG	1
Kit D	Brgy. Tugaig, Barira, Maguindanao	1

# Lot 2 - CAMP RAJAMUDA

S.I.	Target Delivery Location	Qty.
Lot 2 - Kit A	Brgy. Alip, Datu Paglas	4
	Brgy. Bulol, Pikit , North Cot.	14
	Brgy. Dalgan, Pagalungan	4
	Brgy. Dungoan, Datu Montawal, Mag.	11
	Brgy. Layog/Galakit, Pagalungan, Mag.	11
	Brgy. Sadangan, GSKP	12
	Brgy. Talitay, Datu Muntawal,	6
	Brgy. Talitay, Pitkit, North Cot.	1
	Brgy Kilangan, Pagalungan, Mag.	11
	Sitio 5, Brgy. Kudal, Pagalungan, Mag.	8
	Sitio Dungoan, Ugalingan, Carmin North Cot.	3
	Sitio Dunguan, Brgy. Ugalingan, Carmmin North Cot.	8
Lot 2.2	Brgy. Bulol, Pikit, North Cot.	2
Lot 2.3	Brgy. Bulol, Pikit, North Cot.	2
	Brgy. Kilangan, Pagalungan,	4
	Brgy. Layog, Galakit, Pagalungan	4
	Brgy. Rajamuda, Pitkit, North Cot.	6
	Brgy. Talitay, Datu Montawal	4
Lot 2.4	Brgy. Buliok, Pikit, North Cotabato	1
	Brgy. Rajamuda, Pikit, NC	1

# Lot 3 - CAMP OMAR

S.I.	Target Delivery Location	Qty.
Lot 3.1	Brgy. Tuayan, Datu Hoffer Ampatuan, Maguindanao	9
	Madjid Islam, Saniag, Ampatuan, Maguindanao	1
	Masjid Lumbagan, Tuayan, Datu Hoffer, Mag.	1
	Masjid Kumpawn, Sitio Lumbagan, Tuayan, Datu Hoffer, Mag.	1
	Sitio Bagorot, Tuayan Mother, DHA, Mag	5
	Sitio Butunan, Brgy. Tuayan Mother, DHA, Mag.	6
	Sitio Datal, Brgy. Mantao, Datu Hoffer, Mag.	7
	Sitio Kudungan, Brgy. Makalag, DHA, Maguindanao	5
	Sitio Lionin, Brgy. Saniag, Ampatuan, Mag.	2
	Sitio Pamimbingan, Tuayan Mother, Datu Hoffer, Mag.	6
	Sitio Pulangi, Tuayan Mother, DHA, Mag.	8
	Sitio Pulo, Brgy. Mantao, Datu Hoffer, Mag.	5
	Sitio Tawan Tawan, Brgy. Saniag, Ampatuan, Mag.	18

	Sitio Tebag, Brgy. Saniag, Ampatuan, Mag.	8
	Sitito Balawag, Brgy. Makalag, Datu Hoffer, Mag.	6
	Upper Malating, Brgry. Saniag, Ampatuan, Mag.	5
Lot 3.2	Masjid Aliman, Brgy. Tuayan Mother, Datu hoffer, mag.	1
	Masjid Lapok, Brgy. Lapok, Sharif Aguak, Mag.	1
Lot 3.3	Catholic Church, Brgy. Saniag, Ampatuan, Mag.	1
	Community Center, Brgy. Guinibon, DAS, mag.	1
	Community Center, Brgy. Makalag, Datu Hoffer, Mag.	1
	Community Center, Brgy. Saniag, Ampatuan, Mag.	1
	Dam Site, Tuayan Mother, Datu Hoffer, Mag.	1
	Da'wah Center, Sitio Tawan-tawan, Brgy. Saniag, Ampatuan, Mag.	1
	Kalimudan Hall, Sitio Paglat, Tuayan Datu Hoffer, Mag.	1
	Kaya-kaya Elem. School, Brgy. Kaya-Kaya, DAS, Mag.	1
	Kudungan Hall, Brgy. Makalag, Datu Hoffer, Mag.	1
	Madrasatul Eman, Brgy. Saniag, Ampatuan, Mag.	1
	Masjid Aksa, Brgy. Saniag, Ampatuan, Mag.	1
	Masjid Ebrahim, Pidsimbulan, DAS, Mag.	1
	Masjid Mapayag, Sitio Buluan, Kakal Ampatuan, Mag.	1
	Masjid Pamibingan, Brgy. Tuayan Mother, DHA, Mag	1
	Masjid Sampao, Brgy. Mantao, Datu Hoffer, Mag.	1
	Multi Purpose Center, Brgy. Mantao, Datu Hoffer, Mag.	1
	Sitio Lipag, Talfok, Tuayan Mother Datu Hoffer, Mag.	1
	Sitio Talpok, Brgy. Tuayan, Datu Hoffer, Mag.	1
	Tribal Hall, Brgy. Saniag, Ampatuan, Mag.	1
	Tribal Hall, Sitio Pamibingan, Tuayan Mother, DHA, Mag.	1
Lot 3.4	Brgy. Salman, Ampatuan, MAG	1
	Brgy. Saniag, Ampatuan, MAG	1
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# Lot 4 - CAMP BADRE

S.I.	Target Delivery Location	Qty.
Lot 4.1	Brgy. Kenebeka, DOS, Mag.	36
	Brgy. Marader	8
	Lower Sitio Katulanga, Brgy. Datalpandan, Talayan, Mag.	7
	Proper Sifaran, DOS, Mag.	5
	Sitio Balis, Brgy. Datalpanda, Talayan, Mag.	7
	Sitio Malbao, Brgy. Sifaran, DOS, Mag	3
	Sitio Mangga, Sifaran, DOS, Mag.	3
	Sitio Tipedo, Brgy. Sifaran, DOS, Mag.	4
	Sitio Tubaran, Sifaran, DOS, mag.	4
	Sitio Utan, Datalpandan, Talayan, Mag.	12
Lot 4.2	Sitio Utan, Datalpandan, Talayan, Mag.	2
Lot 4.3	Brgy. Marader	1

	Brgy. Sibuto, DOS, Mag.	1
	Community Center, Brgy. Kurentem, DOS, Mag.	1
	Lower Sitio Katulanga, Brgy. Datalpandan, Talayan, Mag.	2
	Mosque Sifaran, DOS, Mag.	1
	Proper Kenebeka	3
	Session Hall, Brgy. Sifaran, DOS, Mag.	1
	Sitio Lower M'abuto, Brgy. Kenebeka, DOS, Mag.	2
	sitio Puti Kenebeka, DOS, Mag.	4
	Upper Sitio Kalunga, Brgy. Datalpandan, Talayan, Mag.	4
Lot 4.4	Brgy. Ahan, Guindulungan, MAG	1
	Brgy. Datal Pandan, Guindulungan, MAG	1

# Lot 5 - CAMP BILAL

S.I.	Target Delivery Location	Qty.
Lot 2.1	Sitio Korakora, Brgy. Tamparan, Munai, Lanao Del Norte	7
	Sitio Langaylay, Brgy. Tamparan, Munai, Lanao Del Norte	86
Lot 2.2	Sitio Korakora, Brgy. Tamparan, Munai, Lanao Del Norte	2
Lot 2.3	Sitio Korakora, Brgy. Tamparan, Munai, Lanao Del Norte	20
Lot 2.4	Brgy. Dilabayan, Munai, LDN 1	
	Brgy. Tamparan, Munai, Lanao del Norte	1

# Lot 6 - CAMP BUSHRA

S.I.	Target Delivery Location	Qty.
Lot 2.1	Brgy. Wago, Lumbayanague, LDS	93
Lot 2.2	Brgy. Wago, Lumbayanague, LDS	2
Lot 2.3	Brgy. Wago, Lumbayanague, LDS	20
Lot 2.4	Brgy. Sandab, Butig, Lanao del Sur	1
	Brgy. Wago, Butig, LDS	1

### **United Nations Development Programme**



#### **TERMS OF REFERENCE**

Project / Output ID	00107421 / 00107729	
Project Title	Support to Peacebuilding and Normalization (SPAN) Programme	
Activity Title	Procurement, Supply, Delivery and Installation of Solar Power Systems (Off-Grid) for Selected Communities and Households in Six (6) Previously Acknowledged Moro Islamic Liberation Front Camps (MILF) Camps	
Contract Duration	Completion of deliverables within 60 working days from receipt of Notice to Proceed	
Funding Source	SPAN Outcome 2 Output 4.1	
Executing Agency/Unit	UNDP Philippines - Resilience and Peace Building Unit (RPBU)	
General Supervision	Office of the Presidential Adviser on the Peace Process (OPAPP)	

#### A. BACKGROUND

The SPAN Programme seeks to contribute towards sustaining the gains of the peace process, and in ensuring peace and security in conflict-affected and conflict-vulnerable areas in the Bangsamoro. It represents a comprehensive approach to peacebuilding and development by pursuing peacebuilding interventions along three (3) critical and interrelated Government priorities for peace and development: 1) support for the implementation of the Security aspect of the Normalization process; 2) support for the implementation of the Socioeconomic aspect of the Normalization process, and 3) support towards strengthening the enabling environment for peace, recovery and development. Additionally, it will support the implementation of social healing and peacebuilding interventions in post-conflict Marawi City. The Programme will be implemented in areas covered by the Comprehensive Agreement on the Bangsamoro (CAB), and as stipulated in the Annex on Normalization signed by the Government of the Philippines (GPH) and Moro Islamic Liberation Front (MILF) in January 2014. It will be implemented over a period of one (1) year.

As part of the Normalization process, the GPH and the MILF have agreed to intensify development efforts for rehabilitation, reconstruction and development of the conflict-affected areas. In particular, socio-economic development programs are being instituted to address the needs of Bangsamoro Islamic Armed Forces (BIAF) members, internally displaced persons (IDPs) and poverty-stricken communities in the Bangsamoro. Towards this end, the GPH and MILF Parties through the Joint Task Forces on Community Transformation (JTFCT) are undertaking necessary measures to support the transformation of the six (6) previously acknowledged MILF camps, namely: (1) Abubakar-as-Siddique in Maguindanao; (2) Badre in Maguindanao; (3) Omar Ibn al-Khattab in Maguindanao; (4) Rajamuda in North Cotabato; (5) Bushra Somiorang in Lanao del Sur; and, (6) Bilal spanning Lanao del Norte and Lanao del Sur.

Among the various interventions identified under this Programme to continue the camps transformation is the off-grid electrification of selected communities and households in the six camps. This project is a continuation of a similar initiative in the first semester of 2017 whereby the JTFCTs, through a solar power system (SPS) Supplier, completed the installation of 3,001 solar-powered facilities in 2,728 households and 273 communal facilities, to include schools, madaris, mosques, orphan care centers, day care centers, multi-purpose centers and a bridge, among others, within the aforementioned camps. For this phase of the SPS (Off-Grid) Project, SPAN needs to procure, deliver and install the remaining commitment of 597 SPS kits in the six camps and its communities. UNDP—being the implementing partner of OPAPP for SPAN and designated Procuring Entity—

will facilitate the procurement of the SPS kits and their subsequent installation at the camps in coordination with the JTFCTs.

#### B. ACTIVITY DESCRIPTION & SPECIFIC OBJECTIVES

The SPS (Off-Grid) Project under SPAN is expected to yield the same results as those in the initial phase, to wit:

- enable communities to reap the initial dividends of the peace process
- provide immediate access to off-grid electrification
- promote sense of community among stakeholders in the project sites, and
- strengthen the people's confidence on the GPH-MILF partnership

The Project will specifically reinforce Phase I results such as heightening physical sense of security within the camps, encourage schoolchildren to study more after school, and provide electrical energy for the day to day needs of selected household, among others. The Project is one of the initiatives identified to help continue the transformation of camps into peaceful and productive communities.

In order to deliver its commitment, UNDP will be engaging the services of a Supplier (firm) directly involved in the supply, delivery and installation of off-grid solar power systems for communal facilities and home use. The engagement shall be treated as one (1) lot and the firm should be able to deliver the following key services:

- Supply and deliver the required number and type of SPS kits across all camps within the prescribed period:
- Manage the installation of SPS kits in all sites, and ensure that all are tested and fully functional prior to handover to beneficiaries;
- Conduct orientation/training (capacity building) on the installation, use, troubleshooting, care and
  maintenance for locals-beneficiaries equivalent in number to at least 25% of the SPS kits distributed in
  each camp; and,
- Clearly define at the onset the warranty coverage and process for claims, and ensure the availability of goods, parts and service technicians (if needed) to promptly respond to valid claims

The selected Supplier shall work directly with a joint OPAPP-UNDP Project Team that would in turn be closely coordinating with the JTFCT for the overall supervision of project activities at the camps. The deliverables of the Supplier shall be clearly defined under the terms and conditions of the contract to be issued. Any needed change(s) during the course of project implementation, as circumstances would warrant, shall be discussed and agreed by all parties concerned. It will be duly documented to effect the same binding nature and formality as the original contract. Implementation monitoring, quality assurance and issuance of certification for work completion shall be handled by the same OPAPP-UNDP Project Team.

#### C. SCOPE OF WORK AND GENERAL TERMS AND CONDITIONS

The Supplier's duties and responsibilities, as well as the general terms and conditions for this engagement, are listed below.

# 1. Supply of SPS Kits

Solar Kit A – 30 Watts (558 units)	Description and minimum/mandatory specifications	Statement of Compliance
Component No. 1 Photovoltaic Panel		Bidders must state here either
Item 1.1 Photovoltaic Modules	- 30 watts Photovoltaic Modules per package - Rated power per module: 0.833W - Total Rated Power: 30W - PV Module Specifications at Standard Test Condition (STC) as per ISO ROHS IEC 61215 Certification: - Maximum Power at STC: 30W - Maximum Power Voltage: 17.80V - Maximum Power Current: 1.69A - Open Circuit Voltage: 21.60V - Short Circuit Current: 1.81A - Module Efficiency: 17% - Power Tolerance: 0~+3% - Module Weight: 3.05KG - Maximum load (Snow/Wind): 1m/s	"Comply" or "Not Comply" against each of the individual parameters of each specification stating the corresponding performance parameter of the equipment offered.  Statements of "Comply" or "Not Comply" must be supported by evidence during bid submission and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's unamended sales literature, Unconditional statements of
Item 1.2 Mounting Structure	Guarantees: 1 year      Dimensions of the frame support shall accommodate the Structure     Size of the solar modules: 650*360*30MM     Frame material: aluminum alloy     Frame bolts and nuts: M12*25*2     Pole Mount material: N/A     Foundation: N/A     Mounting structure design: Wall mounted with set screw	specification and compliance issued by the manufacturer, samples, and independent test data, among others, as appropriate.  A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the bid under evaluation liable for
Component No. 2 Charge C	ontroller and Inverter Unit	rejection.
Item 2.1 Charge Controller	<ul> <li>Nominal Voltage: 12v</li> <li>Input Voltage Range: 10.8~14.4V</li> <li>Charging Current Rating: 20A</li> <li>Regulation method: MPPT</li> <li>Charging Algorithm: 5-7 Hours</li> <li>Full charge voltage: 12v</li> <li>Float charge voltage: 12v</li> </ul>	A statement either in the bidders statement of compliance or the supporting evidence that is found to be false either during bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent that would subject the bidder/Supplier to liabilities as warranted by local laws.
Item 2.2 Inverter	<ul> <li>Operating Voltage: n/a.</li> <li>Low battery disconnect voltage: n/a.</li> <li>Battery reconnect voltage: n/a.</li> <li>Continuous AC Output Rating: n/a.</li> <li>Surge Capacity: n/a.</li> <li>Conversion Efficiency: n/a</li> <li>AC Output Voltage: n/a.</li> <li>AC Output Frequency: n/a.</li> <li>AC Output Waveform: n/a</li> <li>LED Status Indicators: n/a</li> <li>Audible Indicator: n/a</li> <li>Protections: n/a</li> <li>Thermal management: n/a</li> <li>Terminal connections: n/a</li> <li>AC Outlets: n/a</li> <li>Mounting: n/a</li> <li>Approvals &amp; Certification to recognized International Standards: n/a</li> </ul>	

Solar Kit A – 30 Watts (558 units)	Description and minimum/mandatory specifications	Statement of Compliance
Component No. 3 Energy Sto		
Battery	Battery Technology: lead acid battery Maintenance Type: Maintenance free Rating: A+ Nominal Voltage: 12V Full charge voltage: 14.4V Float charge voltage: 13.8V Minimum cycles at 30% DOD: 1200 Approvals & Certification to recognized International Standards: ISO 9001 Battery Box: 0 with lockable and insulated top cover Access for battery cable to inverter/charge controller Elevated from the floor by at least 5cm Dimension of the metal enclosure to accommodate the batteries with 10% of free space on top between the batteries and the cover Battery Interconnection Cables: 16mm² cable	
Component No. 4 Cables an	Lucia de la companya	
4.1 PV wires combiner	Yes, Junction Box with MC4 ( connect )	
4.2 PV to Controller/Inverter cable, maximum 20 meters 4.3 Controller/Inverter to	2.5mm² cable	
Battery cable, maximum 2 meters	Tollini- Capie	
4.4 Inverter to load distribution panel cable, maximum 5 meters	Yes	
4.5 Load Distribution Panel	DC 12V Charging Accessories and LED Lights	
4.6 LED Lamps	Rated wattages: 200000Hrs Input voltage: 12V Input frequency: 50-60Hz Color: White Correlated Color Temperature (CCT): 6000K Color Rendering Index (CRI): 80	
	System Efficacy: <u>DC</u> Lumen maintenance: <u>100LM/W</u> Base: E 27 Lamp holder and extension: <u>5M/10M Cable with</u> switch	

#### NOTE:

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Solar Kit B – 50 Watts (12 units)	Description and minimum/mandatory specifications	Statement of Compliance
Component No. 1 Photovol		Bidders must state here either
ltem 1.1 Photovoltaic Modules	- 50 watts Photovoltaic Modules per package  Rated power per module: 1.388W  Total Rated Power: 50W  PV Module Specifications at Standard Test Condition (STC) as per ISO ROHS IEC 61215 Certification:  Maximum Power at STC: 50W  Maximum Power Voltage: 17.80V  Maximum Power Current: 2.81A  Open Circuit Voltage: 21.60V  Short Circuit Current: 3.01A  Module Efficiency: 17%  Power Tolerance: 0~+3%  Module Weight: 3.85KG  Maximum load (Snow/Wind): 1m/s	"Comply" or "Not Comply" against each of the individual parameters of each specification stating the corresponding performance parameter of the equipment offered.  Statements of "Comply" or "Not Comply" must be supported by evidence during bid submission and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's unamended sales literature, Unconditional statements of specification and compliance
Component No. 2 Charge C	• Guarantees: 1 year	issued by the manufacturer,
Item 2.1 Charge Controller  Item 2.2 Inverter	<ul> <li>Nominal Voltage: 12V</li> <li>Input Voltage Range: 10.8~14.4V</li> <li>Charging Current Rating: 20A</li> <li>Regulation method: MPPT</li> <li>Charging Algorithm: 6-7 Hours</li> <li>Full charge voltage: 14.4V</li> <li>Float charge voltage: 12V</li> <li>Low battery disconnect voltage: 10.8V</li> <li>Battery reconnect voltage: 12.6V</li> <li>Continuous AC Output Rating: 300W</li> <li>Surge Capacity: 600VA</li> <li>Conversion Efficiency: ≥85%.</li> <li>AC Output Voltage: 220V/230V</li> <li>AC Output Waveform: Pure sine wave</li> <li>LED Status Indicators: YES</li> <li>Audible Indicator: Overload protection, short circuit protection, Over temperature</li> </ul>	data, among others, as appropriate.  A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the bid under evaluation liable for rejection.  A statement either in the bidders statement of compliance or the supporting evidence that is found to be false either during bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent that would subject the bidder/Supplier to liabilities as warranted by local laws.
Component No. 3 Energy S Battery	protection Thermal management: Air cooling Terminal connections: M5 AC Outlets: universal socket Mounting: inverter build in solar kits ( with wheel ); panels can be Wall mounted or DIN-Rail Mounting Approvals & Certification to recognized International Standards: CE, RoHs, ISO  torage Battery Battery Technology: lead acid battery Maintenance Type: Maintenance free Rating: A+ Nominal Voltage: 12V Full charge voltage: 14.4V. Float charge voltage: 13.8V.	

Solar Kit B – 50 Watts	Description and minimum/mandatory	Statement of Compliance			
(12 units)	specifications				
	Minimum cycles at 30% DOD: <u>1200</u>				
	Approvals & Certification to recognized				
	International Standards: ISO 9001				
	Battery Box: 0 with lockable and insulated				
	top cover				
	Access for battery cable to				
	inverter/charge controller				
	o Elevated from the floor by at least 5cm				
	o Dimension of the metal enclosure to				
	accommodate the batteries with 10% of				
	free space on top between the batteries				
	and the cover				
	Battery Interconnection Cables: <u>16mm²</u>				
	<u>cable</u>				
Component No. 4 Cables an					
4.1 PVwires combiner	Yes, Junction Box with MC4 (connect )				
4.2 PVto	2.5mm² cable				
Controller/Inverter cable,					
maximum 20 meters					
4.3 Controller/Inverter to	16mm² cable				
Battery cable, maximum 2					
meters					
4.4 Inverter to load	Yes				
distribution panel cable,					
maximum 5 meters					
4.5 Load Distribution Panel	Such as AC TV, fan, Lamp and others				
4.6 LED Lamps	Rated wattages: 200000Hrs				
	Input voltage: 12V				
	Input frequency: 50-60 Hz				
	Color: White				
	Color Rendering Index (CRI): 80				
	Color Rendering Index (CRI): <u>80</u> System Efficacy: DC				
	Lumen maintenance: 100LM/W				
	Base: E 27				
	Lamp holder and extension: 5M/10M Cable with				
	switch				
	SYVICCII				

## NOTE:

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Solar Kit C – 120 Watts	Description and minimum/mandatory	Statement of Compliance
(120 units)	specifications	
Component No. 1 Photovol		Bidders must state here either "Comply" or "Not Comply" against
Item 1.1 Photovoltaic Modules	- 120 watts Photovoltaic Modules per package - Rated power per module: 3.333W	each of the individual parameters
Modules	- Total Rated Power: 120W	of each specification stating the
	- PV Module Specifications at Standard Test	corresponding performance
	Condition (STC) as per ISO ROHS IEC 61215	parameter of the equipment
	Certification:	offered.
	Maximum Power at STC: 120W	
	Maximum Power Voltage: 17.80V	Statements of "Comply" or "Not
	Maximum Power Current: 6.75A	Comply" must be supported by
	Open Circuit Voltage: 21.60V	evidence during bid submission
	Short Circuit Current: 7.22A	and cross-referenced to that
	Module Efficiency: 17%	evidence. Evidence shall be in the
	• Power Tolerance: 0~+3%	form of manufacturer's un-
		amended sales literature,
	Module Weight: 8.70KG	Unconditional statements of
	Maximum load (Snow/Wind): <u>1m/s</u>	specification and compliance issued by the manufacturer,
	Guarantees: 1 year	samples, and independent test
Component No. 2 Inverter (		data, among others, as
Item 2.1 Inverter (600W)	Operating Voltage: 12V	appropriate.
	Low battery disconnect voltage: 10.8V	
	Battery reconnect voltage: 12.6V     Continue AC Content Patient 600W	A statement that is not supported
	Continuous AC Output Rating: 600W	by evidence or is subsequently
	Surge Capacity: 1200VA     Capacity Ffficients 200VA	found to be contradicted by the
	• Conversion Efficiency: ≥85%	evidence presented will render
	AC Output Voltage: 220V/230V     AC Output Frague and FOUT/COUT	the bid under evaluation liable for
	AC Output Frequency: 50HZ/60HZ     AC Output Waveform: Pure sine wave	rejection.
	AC Output Waveform: Pure sine wave     LED Status Indicators: YES	
	Audible Indicator: YES	A statement either in the bidders
	Protections: Overload protection, short	statement of compliance or the
	circuit protection, Over temperature	supporting evidence that is found
	protection	to be false either during bid evaluation, post-qualification or
	Thermal management: Air cooling	the execution of the Contract may
	Terminal connections: M5	be regarded as fraudulent that
	AC Outlets: universal socket	would subject the bidder/Supplier
	Mounting: inverter build in solar kits ( with	to liabilities as warranted by local
	wheel ); panels can be Wall mounted or	laws.
	DIN-Rail Mounting	
	Approvals & Certification to recognized	
	International Standards: CE, RoHs, ISO	_
Component No. 3 Energy St	torage Battery	
Battery	Battery Technology: <u>lead acid battery</u>	
	Maintenance Type: Maintenance free	
	Rating: <u>A+</u>	
	Nominal Voltage: 12V	
	Full charge voltage: 14.4V	
	Float charge voltage: 13.8V	
	Minimum cycles at 30% DOD: <u>1200</u>	
	Approvals & Certification to recognized	
	International Standards: ISO 9001	
	Battery Box: 0 with lockable and insulated	
	top cover	

Solar Kit C – 120 Watts (120 units)	Description and minimum/mandatory specifications	Statement of Compliance
Component No. 4 Cables an	Access for battery cable to inverter/charge controller     Elevated from the floor by at least 5cm     Dimension of the metal enclosure to accommodate the batteries with 10% of free space on top between the batteries and the cover  Battery Interconnection Cables: 16mm² cable  d Peripherals	Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each specification stating the corresponding performance parameter of the equipment offered.
4.1 PVwires combiner 4.2 PVto	Yes, Junction Box with MC4 ( connect )  2.5mm² cable	Statements of "Comply" or "Not
Controller/Inverter cable,	2.5mm cable	Comply" must be supported by
maximum 20 meters		evidence during bid submission
4.3 Controller/Inverter to Battery cable, maximum 2 meters	16mm² cable	and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-
4.4 Inverter to load	Yes	amended sales literature,
distribution panel cable,		Unconditional statements of specification and compliance
maximum 5 meters		issued by the manufacturer,
4.5 Load Distribution Panel	Such as AC & DC TV, fan, lamp, computer and	samples, and independent test
4.6 LED Lamps	many more  Rated wattages: 200000Hrs Input voltage: 12V Input frequency: 50-60Hz Color: White Correlated Color Temperature (CCT): 6000K Color Rendering Index (CRI): 80 System Efficacy: DC Lumen maintenance: 100LM/W Base: E 27 Lamp holder and extension: 5M/10M Cable with switch	data, among others, as appropriate.  A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the bid under evaluation liable for rejection.  A statement either in the bidders statement of compliance or the supporting evidence that is found to be false either during bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent that would subject the bidder/Supplier
		to liabilities as warranted by local laws.

# NOTE:

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D. Solar Street Light - SSL 50 Watts (12 units)	Description and minimum/mandatory specifications	Statement of Compliance
Component No. 1 Photovolt	•	Bidders must state here either
Item 1.1 Photovoltaic Modules	<ul> <li>50 watts Photovoltaic Modules per package</li> <li>Rated power per module: 1.388W</li> <li>Total Rated Power: 50W</li> <li>PV Module Specifications at Standard Test Condition (STC) as per ISO ROHS IEC 61215 Certification:</li> </ul>	"Comply" or "Not Comply" against each of the individual parameters of each specification stating the corresponding performance parameter of the equipment offered.
	<ul> <li>Maximum Power at STC: 50W</li> <li>Maximum Power Voltage: 17.80V</li> <li>Maximum Power Current: 2.81A</li> <li>Open Circuit Voltage: 21.60V</li> <li>Short Circuit Current: 3.01A</li> <li>Module Efficiency: 17%</li> <li>Power Tolerance: 0~+3%</li> <li>Module Weight: 3.85KG</li> <li>Maximum load (Snow/Wind): 1m/s</li> <li>Guarantees: 5 years</li> </ul>	Statements of "Comply" or "Not Comply" must be supported by evidence during bid submission and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's unamended sales literature, Unconditional statements of specification and compliance issued by the manufacturer,
Item 1.2 Mounting Structure	<ul> <li>Dimensions of the frame support shall accommodate the Structure</li> <li>Size of the solar modules: 650*360*30MM</li> <li>Frame material: aluminum alloy</li> </ul>	<ul> <li>samples, and independent test data, among others, as appropriate.</li> <li>A statement that is not supported</li> </ul>
	<ul> <li>Frame bolts and nuts: M12*25*2</li> <li>Pole Mount material: Hot Dipped         Galvanized</li> <li>Foundation: Concrete Pedestal</li> <li>Mounting structure design: Pole mounted with set screw</li> </ul>	by evidence or is subsequently found to be contradicted by the evidence presented will render the bid under evaluation liable for rejection.
Component No. 2 Charge Co		A statement either in the bidders
Item 2.1 Charge Controller	<ul> <li>Nominal Voltage: 12V</li> <li>Input Voltage Range: 10.8~14.4V</li> <li>Charging Current Rating: 20A</li> <li>Regulation method: MPPT</li> <li>Charging Algorithm: 6-8 hours charging</li> <li>Full charge voltage: 12V</li> <li>Float charge voltage: 12V</li> </ul>	statement of compliance or the supporting evidence that is found to be false either during bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent that would subject the bidder/Supplier to liabilities as warranted by local
Item 2.2 Inverter	<ul> <li>Operating Voltage: n/a.</li> <li>Low battery disconnect voltage: n/a.</li> <li>Battery reconnect voltage: n/a.</li> <li>Continuous AC Output Rating: n/a.</li> <li>Surge Capacity: n/a.</li> <li>Conversion Efficiency: n/a</li> <li>AC Output Voltage: n/a.</li> <li>AC Output Frequency: n/a.</li> <li>AC Output Waveform: n/a.</li> <li>LED Status Indicators: n/a.</li> <li>Audible Indicator: n/a.</li> </ul>	Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each specification stating the corresponding performance parameter of the equipment offered.
	<ul> <li>Audible Indicator: n/a.</li> <li>Protections: n/a.</li> <li>Thermal management: n/a.</li> <li>Terminal connections: n/a.</li> <li>AC Outlets: n/a.</li> <li>Mounting: n/a.</li> </ul>	Statements of "Comply" or "Not Comply" must be supported by evidence during bid submission and cross-referenced to that evidence. Evidence shall be in the

D. Solar Street Light – SSL 50 Watts (12 units)	Description and minimum/mandatory specifications	Statement of Compliance						
50 Watts (12 units)	Approvals & Certification to recognized n/a. International Standards: n/a.	form of manufacturer's unamended sales literature,						
Component No. 3 Energy St	mponent No. 3 Energy Storage Battery							
Battery	Battery Technology: lead acid battery Maintenance Type: Maintenance free Rating: A+ Nominal Voltage: 12V Full charge voltage: 14.4V. Float charge voltage: 13.8V. Minimum cycles at 30% DOD: 1200 Approvals & Certification to recognized International Standards: ISO 9001 Battery Box: 0 with lockable and insulated top cover Access for battery cable to inverter/charge controller	specification and compliance issued by the manufacturer, samples, and independent test data, among others, as appropriate.  A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the bid under evaluation liable for rejection.  A statement either in the bidders						
	inverter/charge controller  o Elevated from the floor by at least 5cm o Dimension of the metal enclosure to accommodate the batteries with 10% o free space on top between the batteries and the cover  • Battery Interconnection Cables: 16mm² cable							
Component No. 4 Cables an		would subject the bidder/Supplier						
4.1 PV wires combiner	Yes, junction box with MC4	to liabilities as warranted by local laws.						
4.2 PV to Controller/Inverter cable, maximum 20 meters	2.5mm² cable							
4.3 Controller/Inverter to Battery cable, maximum 2 meters	16mm² cable							
4.4 Inverter to load distribution panel cable, maximum 5 meters	YES							
4.5 Load Distribution Panel	LED Lamp							
4.6 LED Lamps								
and the second s								

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Training Component	Description and minimum/mandatory specifications							
Component	The awarded supplier will provide training services, including training material and on-site training session, before installation of Solar Power System kits at each camp.							
	The duration of each training will be of a minimum of 4 hours, delivered face to face at each camp to a group of 10 selected technicians.  A training checklist will be signed by the participants after the training is conducted. Training Checklist template will be provided by OPAPP Central Office.  Installed solution in the target household/communal facility will be used for the face to face training.  Training Manuals in Hardcopies and softcopies (in DVD) shall be provided to each camp.  Supplier shall produce Orientation Handbook and deliver one hard copy to each target beneficiary.  Training content shall include the following;  Solar Power System  a) Basic operations of the solar energy system equipment							
	<ul> <li>b) Load management</li> <li>c) Basic maintenance of the solar energy system equipment.</li> <li>d) Basic troubleshooting of the solar system equipment</li> <li>e) Orientation on the warranty and reporting procedure</li> </ul>							
Installation Services Component	The supplier must provide installation services through a Local Company established in The Philippines (please refer to the Bid Data Sheet for further details on the required Organizational Set Up).  In case the Main Bidder is not a Philippine company, a signed/notarized agreement between the bidder and affiliated local service partner shall be included in the submission. A valid and current Business Permit shall be attached in the agreement.  The bidders must submit the List of Service Centers, along with the contact details of the local support							
	<ul> <li>a) The Local Service Provider must be established in the Philippines and be authorized by the manufacturers of the goods offered to provide technical support services within the country.</li> <li>b) The Local Service Provider must cover technical support centers in all main areas of the country: Metro Manila, Cebu and Davao. The bidder is requested to provide details of the</li> </ul>							
	capacity of each of the local technical service providers which they intend to partner with.  c) The supplier must ensure that there is a sufficient number of space parts at the Local Service Providers' premises, which are readily available to ensure timely responses and solutions.							
	d) The Local Service Provider's personnel must comply with the following qualifications;							
	- Employing at least 1 qualified PV engineer who must have participated in at least 1 of the PV trainings.							
	Installation requirements: The installation of the equipment at the camps will commence upon delivery of the goods.							
	The bidders are requested to provide a preliminary installation plan, covering the six camps, organized by barangay complying with the requested implementation timelines.							
	- Installation set-up:							

All necessary cables, adaptors and connections must be provided by the supplier in order to complete a functional installation of the solution supplied to each household/communal facility.

The mounting structure with solar modules must be placed on the roof of the household/communal facility with maximum solar exposure, free from shading, accessible for maintenance and repair, within an area not to exceed the total cable length from the solar array to the charge controller of 20 meters. The three solar modules to be connected in parallel via MC4 3 to 1 combiners. The cable from the solar array to the charge controller shall enter household/communal facility with a drip loop to avoid entry of water into the house/building structure. The cables shall be fastened with cable ties, clamps and staple wires.

#### Solar kit enclosure

A metal enclosure with handle where the charge controller, inverter, battery, load was placed. The AC/DC switch, battery level indicator, solar charging indicator, AC/DC voltage indicator, USB charging slot, battery breaker, and solar input are integrated on the enclosure shall be installed inside the house/building in a location where they can be securely mounted and does not obstruct the path of the beneficiaries. The charge controller/inverter unit shall be mounted on a wall above the battery box containing the three batteries with a maximum cable length from the battery terminal to the inverter input of 2 meters.

The LED lamps shall be screwed into the e27 sockets and mounted on the ceiling of the classroom. The lamps shall be plugged to the Load Distribution panel where they can be individually switched.

The PV panels, mounting structure shall bear a sticker with JTFCT acronym. Stickers to be provided by the supplier according to the following specifications:

- o Self-adhesive thick and waterproof resistant vinyl material stickers with glossy finish.
- Pre-printed in 1 colors on white background
- Approximate size: 2 x 2 inches

Strong glue ensure that the stickers will not be easily detached/unglued, especially in hot, very humid and rainy weather conditions.

## Warranty and Technical Support Services Component

Warranty coverage and after sale technical support services are required for the Solar Power System for a period 1 year.

The Solar Power System is subject to functional warranty to ensure that it will be in good running condition, providing electricity.

The warranty for all items and components will commence after the items have been delivered and installed, on the same day that the solution has been accepted by the End User.

The warranty shall be provided by the manufacturer. In case that the manufacturers' warranty for any item is inferior to 1 year, the remaining period shall be covered by the supplier.

The supplier will be requested to provide all necessary licenses and certificates that confirm that end user will receive 1 year of support service from the manufacturers or from the supplier.

#### **Technical Support Service Requirements:**

- 1. JTFCT will provide feed backing system to be used as a tool of the suppliers, beneficiaries to report/monitor deployment and process technical support reported by the recipients.
  - The supplier will be requested to provide the Company profiles and Technical Support contact details to be uploaded in the system. Two (2) different mobile numbers from the maintain telephone companies to be provided and to be operational at least 8 hours/day and 5 days/week (business hours and days), including the website address and email address.
- The supplier shall act on all reported issues by deploying support technicians for troubleshooting, and repair purposes or telephone assistance, as necessary.
- 3. Requested resolution times:

- Seven-day guarantee to repair the system or unit/s upon receipt of the request.
- In case unit/s cannot be repaired within the seven (7) day guarantee period, the unit/s must be placed within a maximum of fourteen (14) calendar days.
   Replacement must be installed prior to the pull out of the defective or unrepairable unit/s.
- 4. No pull-out of any equipment for repair/replacement shall be made without written authorization from the supplier duly approved by the JTFCTs or his/her authorized representative.
- 5. Supplier shall submit monthly summary reports of received, resolved, pending and closed issues to the end-user.

All Service Level Agreement (SLA) covering all the requirements above will be signed with the awarded supplier.

#### 2. Delivery and Documentation Required

The SPS kits in listed in the preceding section, including ancillary components (if any), shall be delivered to the following camps for inspection and storage prior to on-site installation:

CAMP	TARGET SITES	DROP OFF POINT					
Omar Ibn al-Khattab in Maguindanao	Datu Hoffer, Maguindanao	Barangay Tuayan, Datu Hoffer, Maguindanao					
	Brgy. Saniag, Ampatuan, Maguindanao	Sitio Upper Malating					
	Kenebeka, Datu Odin Sinsuat	Poblacion Dalican, Datu					
Badre in	Sibuto, Datu Odin Sinsuat	Odin Sinsuat					
Maguindanao	Sitio Katulanga, Datalpandan, Guindulungan	Brgy. Datal Pandan,					
Maguinuanao	Ahan, Guindulungan	Guindulungan					
	Sifaran, Datu Odin Sinsuat						
Abubakar-as-	Abubakar-as- Guiling, Alamada, North Cotabato						
Siddique in Maguindanao	Pabrica Marogong, Lanao del Sur	Nursery Making, Parang, Maguindanao					
	Kilangan, Pagalungan, Maguindanao						
Rajamuda in North	Dalgan, Pangalungan, Maguindanao	Brgy. Kilangan,					
Cotabato	Sitio Singko, Kudal, Pagalungan, Maguindanao	Pagalungan, Maguindanao					
	Sadangen, General Salipada K. Pendatun, Maguindanao	r agaiangan, wagamaanao					
Bilal spanning Lanao	Sitio Bandara-inged, Munai, Lanao del Norte	Brgy. Dilabayan,					
del Norte and Lanao del Sur	Lamaosa, Tangcal, Lanao del Norte	Kauswagan, Lanao del Norte					
Bushra Somiorang in Lanao del Sur	Brgy. Wago, Lumbayanague, Lanao del Sur	Brgy. Wago, Lumbayanague, Lanao del Norte					

All related inquires to firm up the bid proposals shall be entertained during this conference. An addendum to the original terms of reference (TOR), if necessary, shall be issued after the conference to reiterate or clarify vague or contradictory terms and conditions of the TOR.

The Supplier shall inform the OPAPP-UNDP Project Team at least a week prior to start of the targeted delivery schedule to ensure proper coordination with and issuance of clearance by the JTFCT. Upon delivery of the goods to the Project sites, the Supplier shall present the following documents to designated representative(s) of the Project Team:

- Original and copies of the Supplier's invoice showing the goods' description, quantity, unit price and grand total
- Original Supplier's factory inspection report on goods due for delivery
- Original and copies of manufacturer's and/or Suppliers warranty certificate
- Transportation/delivery receipt or waybill detailing exact number and description of items received signed by the authorized receiving personnel
- Certificate of Acceptance/Inspection Report signed by the Project Team's representative(s) on-site
- · Copies of the Invoice Receipt for Property signed by the Project Team's representative(s) on-site

Risk and responsibility transferred from the Supplier to the Project (either through the Team's representative or camp-in-charge) shall only be limited to physical security of goods (i.e., against theft or losses) and physical damage during safekeeping due to unauthorized handling and exposure to natural elements. Ensuring that these goods are in working condition and operate as rated shall remain with the Supplier until all SPS kits are installed and tested, and the Certificate of Completion of Work is issued by the JTFCT.

## 3. Incidental Services

The Supplier is required to provide all of the following services, including additional ones as may be identified during the pre-bid conference:

- Performance and supervision of on-site assembly and commissioning of the SPS kits
- · Furnishing of tools required for the assembly, testing and maintenance of the supplied goods
- Furnishing of detailed operations, basic troubleshooting and maintenance manual for each of the SPS kits or the critical parts thereof
- Performance, supervision, maintenance and/or repair of the SPS kits, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations
- Orientation/training on-site on assembly, start-up, operation, troubleshooting, care and maintenance of the supplied goods for at least 150 participants—the breakdown of which shall be prorated based on the percentage distribution of SPS kits for each camp.

The bid proposal should be able to indicate the unit cost of SPS kits, cost for delivery and installation, and the amount to be charged by the Supplier for the indicated incidental services which should not exceed prevailing rates charged to other parties by the Supplier for similar services.

#### 4. Spare Parts

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- Such spare parts that are usually or likely to be damaged, even with normal and properly maintained
  use, within a three (3)-year period after installation;
- Such spare parts as the OPAPP or beneficiaries of SPS kits may elect to purchase from the Supplier as back-up supply or as may be needed later, provided that this election shall not relieve the Supplier of any warranty obligations under this engagement; and,
- In the event of termination of production of the spare parts or impending phasing out of said items in the market within a three (3)-year period:

- (a) advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the OPAPP and/or beneficiaries to procure needed requirements; and,
- (b) following such termination, furnishing at no cost to the OPAPP-UNDP Team, the blueprints, drawings and specifications of the spare parts, if requested.

The spare parts likely to be needed and the cost thereof should be indicated in the bid documents and shall form part of the basis for selecting the most responsive and most economical bid. The submission of bid proposal constitutes a guarantee from the Supplier that there are sufficient inventories to assure ex stock supply of consumable spares for the SPS kits for a period of three times of the warranty period (i.e., three years). Other spare parts and components shall be supplied as promptly as possible, but in any case within reasonable time.

#### 5. Packaging

The Supplier shall provide such packaging of all SPS kits, especially the moving and fragile parts, as needed to prevent their damage or deterioration during transit to their final on-site destination. The packaging shall be sufficient to withstand, without limitation, rough handling and stacking during transit, exposure to extreme temperatures during transport and temporary storage, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities or equipment at all points in transit.

The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided by the Project Team, including additional requirements, if any, specified below, and in any subsequent instructions ordered by OPAPP-UNDP. The outer packaging must be clearly marked on at least four (4) sides as follows:

- Name of the Procuring Entity (to be agreed upon by the OPAPP-UNDP Project Team with the JTFCT)
- Name of the Supplier
- Package Description
- Final Destination Gross weight
- Any special lifting instructions
- Any special handling instructions
- Any relevant hazardous chemical classifications

A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.

## 6. Insurance

The SPS kits to be supplied under this engagement shall be fully insured by the Supplier against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery. The Goods remain at the risk and title of the Supplier until their final acceptance by the Procuring Entity.

## 7. Transportation

All related transportation arrangements and costs, taking into consideration the total number of loading and unloading required to complete deliveries from the Supplier's warehouse to project sites, shall be arranged and paid for by the Supplier, and the cost thereof shall be computed and included in the bid proposal.

The Supplier shall notify the Project Team of the delivery schedule, including delays and its cause(s). OPAPP-UNDP accepts no liability for the damage of goods during transit or from additional costs incurred arising from delays in shipment and on-site delivery.

# 8. Patent Rights

The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the SPS kits or any parts thereof.

# D. DELIVERABLES AND SCHEDULES/EXPECTED OUTPUTS

Deliverables/ Outputs*	Estimated Duration to Complete	Target Due Dates	Review and Approvals Required	Name and Email address of designated person who will review and accept the output
Supply, Delivery and Installation 558 units For small home use 30wp	Dec 2018	Dec. 30, 2018	Engr. Jake Abdulla OPAPP Solar Panel Expert	Leila Halud GPH TFCT Secretariat leila.halud@gmail.com OR Mohaimen Usman MILF TFCT Secretariat Mohaimenusman3@gmail.com
Supply, Delivery and Installation 12 units For masjid, warehouse and day care center 50wp	Dec 2018	Dec. 30, 2018	Engr. Jake Abdulla OPAPP Solar Panel Expert	Leila Halud GPH TFCT Secretariat leila.halud@gmail.com OR Mohaimen Usman MILF TFCT Secretariat mohaimenusman3@gmail.com
Supply, Delivery and Installation 12 units	Dec 2018	Dec. 30, 2018	Engr. Jake Abdulla OPAPP Solar	Leila Halud GPH TFCT Secretariat leila.halud@gmail.com
For street lighting  50wp (streetlight)			Panel Expert	OR Mohaimen Usman MILF TFCT Secretariat mohaimenusman3@gmail.com
Supply, Delivery and Installation 120 units	Dec 2018	Dec. 30, 2018	Engr. Jake Abdulla OPAPP Solar Panel Expert	Leila Halud GPH TFCT Secretariat leila.halud@gmail.com OR Mohaimen Usman MILF TFCT Secretariat mohaimenusman3@gmail.com

Conduct of Training Dec 2018 Dec. 30, 2018	Engr. Jake Abdulla OPAPP Solar Panel Expert	Leila Halud GPH TFCT Secretariat leila.halud@gmail.com OR Mohaimen Usman MILF TFCT Secretariat mohaimenusman3@gmail.com
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<sup>\*</sup>Please see details in the specifications

#### E. GOVERNANCE AND ACCOUNTABILITY

Under the overall guidance of the OPAPP-Assistant Secretary for Policy and Programs and the direct supervision of OPAPP designated Solar Panel Expert (Engr. Abdullah), the supplier shall deliver all the items provided in the contract.

# F. EXPECTED DURATION OF THE CONTRACT/ASSIGNMENT

The contract shall be valid for 120 days from the signing of the contract.

## **G. DUTY STATION**

The supplier is not required to report to OPAPP but should assign a focal person in Cotabato City to coordinate with OPAPP designated solar panel expert. The supplier or his representative is also required to attend meetings which shall be called from time to time in relation to the agreements in the contract.

## F. TIMEFRAME

The procurement, supply, installation, commissioning and handover of SPS kits to beneficiaries at the project sites are expected to take about three (3) months. Below is the indicative timeline for this project:

Activity		Month 1			Month 2				Month 3				Month 4	
		W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2
Procurement and Selection of Supplier							4		·					
TOR finalization and approval														
Invitation to apply for eligibility and to bid														
Conduct of pre-bid conference with prospective suppliers														
Preparation and submission of bid proposal														
Opening of bids, bid evaluation and clarifications														
Award of contract and issuance of Notice to Proceed														
		Moi	nth 1		Month 2				Month 3			Month 4		
Activity	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2
Project Implementation	<u> </u>	<del></del>	*		<u> </u>	<b></b>								
Inception meeting with OPAPP-UNDP and JTFCT														
Start of shipment and distribution of SPS kits														
Start of user orientation/training and installation														
Commissioning and monitoring (repair/replace if needed)														
Official handover to project beneficiaries														

Activity		Mor	ıth 1			Mor	nth 2			Moi	nth 3		Mor	nth 4
Acuvity	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2
(i.e., certification that kits are fully operational)													14 24	
Issuance of Certificate of Completion of Work														

## G. QUALIFICATIONS OF BIDDER/SUPPLIER AND ITS KEY PERSONNEL

The bidder/Supplier shall have the following minimum qualifications:

- Eligibility requirements as prescribed in the bid documents to be issued by Procurement Unit
- Authorized dealer/supplier/distributor of the (brand) goods in the Philippines [Note: Sub-contracting or re-selling is not allowed for this engagement]
- Holder of valid documents to operate as dealer/supplier/distributor which includes, but not limited to, registration certificates, local business permits and tax clearance
- Office(s) and warehouse(s) located within the Philippines
- Should have satisfactorily completed, within five (5) years upon receipt of bid documents, contract(s) similar to the Project with a contract cost of at least ten million pesos (PHP10,000,000.00) "to ensure that winning bidder has the concrete reputation/track record that they can immediately implement the Project even without waiting for the Project fund to fast track implementation considering that 2018 is already ending and that MILF communities long awaits the Project". Bidder will be required to submit a statement of all ongoing and completed government and private contracts indicating the project description, total amount per contract, and contact details (i.e., name of focal person, email and number) of the contracting party or procuring entity.
- The supplier's Team Leader should be a licensed PV Engineer with at least five (5) years experience in solar panel installation. All other PV technicians should have at least three (3) years of experience in solar panel installation, preferably with the knowledge on the language and culture of the area.
- Must have active website reflecting its institutional and operational operations with feedback system

expense or loss that may be incurred for the preparation of bids, nor does it guarantee that an award will be made.

# I. SCHEDULE OF PAYMENT

Funding for this engagement shall be drawn from SPAN Programme under activity budget line for **Outcome 2 Output 4.1** (provision of 597 solar-powered facilities in household and communal facilities in the six priority camps). The selected Supplier shall be remunerated based on the following payment schedule:

Payment Schedule	Percentage of Contract Amount	Payment Conditions	
1 <sup>st</sup> payment	20%	Upon signing of contract	
2 <sup>nd</sup> payment 40%		Upon delivery of all SPS kits in all camps and the submission of documentary requirements as listed in Section C.1	
3 <sup>rd</sup> payment and 40% final payment		Upon commissioning of all SPS kits (i.e., all operational), handover to beneficiaries and issuance of <i>Certificate of Completion of Work</i> from RPBU	