

DATE: 02 AUGUST 2022

REQUEST FOR QUOTATION: No. RFQ/HCR/ROK/2022/021

FOR THE SUPPLY AND DELIVERY OF HYBRID SOLAR BACKUP SYSTEM FOR UNHCR SUDAN OPERATIONS

QUOTATION TO BE RECEIVED BY: 09 AUGUST 2022 - 15:00 HRS SUDAN STANDARD TIME

The Office of the United Nations High Commissioner for Refugees (UNHCR) established on December 14, 1950 by the United Nations General Assembly requests your price quotation of **Hybrid Solar Backup System** specified in the **Annex A** - Attached as part of this Request for Quotation (RFQ).

1. REQUIREMENTS

Please include the following price information in your quotation (without VAT).

Annex B: Financial offer form:

No	Items	Quantity	Unit Cost (USD)	Total cost (USD)
1	HYPRID SOLAR BACKUP SYSTEM UPS 15KVA	1		
	Total cost in USD			

N/B: UNHCR will request for detailed technical specification from all the bidders in order to confirm conformity to the specification

Delivery lead time:

Please fill in below	P	İ	in		be	lo	W	lin	es	:
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Delivery Point: To be delivered in UNHCR Office in Khartoum warehouse located in Mayo Area
Name of Vendor
Address/Telephone No:
Contact Person:
Delivery time in days:
Total Amount in Words:
Offer Validity Period:
Date:
Signature:
2. RFQ DOCUMENTS-ANNEXES. The following annexes form an integral part of this Request for Quotation
Annex A: Specification
Annex B: Financial offer form
Annex C: Vendor Registration Form

Annex D: UNHCR General Conditions of Contracts for the Provision of Goods and Services - July 2018 For further information on UNHCR, please see http://www.unhcr.org

Annex D: UN Supplier code of conduct

Please note that UNHCR has tax and duty exemption status.

BID VALIDITY: You are requested to hold your offer valid for **90 days** from the deadline for submission. UNHCR will make its best effort to select a firm within this period.

PAYMENT: Payment will be made within **30 days** of receipt in UNHCR, Khartoum office of complete documents in good order after satisfactory delivery of goods/services. UNHCR does not undertake to pay by letters of credit or in advance of delivery.

CURRENCY OF PAYMENT: Payment will be made in the currency in which the purchase order is issued.

IMPORTANT: UNHCR can only facilitate payments through the local banks and not banks outside Sudan and therefore the current market condition must be factored in before submitting your quote

<u>Vendor Registration Form:</u> If your company is not registered with UNHCR you should complete, sign and submit with your technical proposal the Vendor Registration Form (Annex B).

Please note that these terms and conditions (Annex C) will be strictly adhered to for the purpose of any future contract.

3. CLARIFICATIONS

Bidders are required to submit any request for clarification or any question in respect of this RFQ by e-mail to <u>SUDKH-SU@unher.org</u>. The deadline for receipt of questions is 09 October 2021 15:00 HRS Sudan Standard Time. Bidders are requested to keep all questions concise.

4. YOUR OFFER

Your Offer shall be prepared in English.

Please submit your offer using the submission template provided. It should conform to the requirements and contain all information required. The offers not conforming to the requested format will not be taken into consideration for evaluation.

5. RFQ Submission

We would appreciate receiving your quotation on or before **9** August **2022**, **15:00** HRS Sudan Standard Time by return only to email: sudkh-su@unher.org.

Please be aware of the fact that the e-mail policy employed by UNHCR limits the size of attachments to a maximum of 10 Mb so it may be necessary to send more than one e-mail for the whole submission.

Please indicate in the e-mail subject field:

- -RFQ Number: RFQ/HCR/ROK/2022/021
- -Name of your firm:
- -Number of e-mails that are sent (example: 1/2, 2/2)

Bids received after the deadline for submission of bids and bids transmitted in any other manner than those indicated above may not be considered.

Information provided by the bidder will constitute the basis for eventual purchase order(s).

UNHCR may, at its discretion, extend the deadline for the submission of proposals, by notifying all prospective suppliers in writing. The extension of the deadline may accompany a modification of the solicitation documents prepared by UNHCR at its own initiative or in response to a clarification requested by a prospective supplier.

Your quotation must be valid at least for **90 days**. The standard payment terms of UNHCR is net 30 days upon satisfactory delivery of goods or services and acceptance thereof by UNHCR.

Thank you for your kind attention.

Ibrahima Drame

Supply Officer

UNHCR Representation Office in Khartoum

For further information on UNHCR, please see http://www.unhcr.org

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Annex A: Technical Specification - Hybrid Solar Backup System, UPS, 15 KVA

			Desi	gn and S	ize System S	ummary		
Rate PV	Wp			VA	15000VA	Rated Batt Bank	Wh	20460
Array		21382					,	
	KWP	21.4	Rated AC power	KVA	15KVA		KWh	20.5
PV	V			VA	220-240	Batt bank Voltage		
String ratings	Α		AC output Volt & Hz	Hz	50Hz	V	Vdc	48

ot.	Item description	UOM	Qty	
	PV array			
	Monocrystalline or Polycrystalline module of nominal 500Wp or higher, with pre-wired MC4 connectors	Wp	21282	
	Module racking, aluminium extruded or galvanised metal sections on a firm foundation with anti-theft and stainless steel hardwares, estimated to cover approximately 100m2, though it doesn't cover racking rows and columns paces	m2	120	
	wiring- Sealed and waterproof MC4 T/Y branch Housing & Connector Crimp Connector Kit, 1000V TUV or Junction boxes as per string configuration	Pairs	20	
	Wiring- USE-2XLPE (Crossed-linked polythene) Array wire. 4 or 6mm2. determined by string voltages and amparages	m	100	



Battery bank			
Preferably, Lithium Iron Phosphate Battery Solution or Absorbed Glass Matt or Lead acid (Flooded or Sealed), (12v/200AH) cells in combination so that battery bank achieves the required energy storage at 48V, battery bank voltage, based on 20-hour discharge (C20); designed for long life in extreme conditions, including their appropriately sized lugged battery cables and connectors bolts.	KWH	12	Lithium 12 8V-200Ah Perint Hary Lithiu
Battery racking system made of Steel or Aluminium, with insulated surfaces	Lump	1	

Hybrid 230V/50Hz Inverter single phase; 15KVA/15KW Continues output at 25'C; 48V battery bank voltage minimum; >95% efficiency; true sine wave; programmable; sealed or designed for >40'C temp extreme conditions, or for outdoor mounting as well	pcs	1	THE THE PARTY OF T
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Charge Controllers or 48DC PV Inverter Maximum power point tracking(MPPT); Minimum output current >100A, Minimum 48V nominal battery bank voltage; 150- 250V PV open circuit voltage(Voc); self-consumption <100mA; <100W standby power consumption; >95% efficiency; >5000W max Solar module array input power; programmable; battery temps sensor; sealed and designed for			Schotfoder Charge Cost Office (MPPT 250 1100 - MC4 A OD ACC PASAS Special and Reference and Refer
>40'C temps under extreme conditions and applicable for outdoor mounting			
	Pcs	1	

Monitoring system for on-site and online	monitoring	
•	Homonig	
Visual monitor; Battery voltages;		
Battery charge/discharge current;		
Battery state of charge; Ampere-hour		
consumed; Alarms; LAN or wifi		
communication.	Unit	

Surge protection, Earthing, disconnects, fus	sing		
Surge arrestor/Surge protection device			
for protection of DC and AC system			DC+/- DC-/+
device/components			
			ZIBENY ZIBENY ZIBENY
			BUD-1500 Usev 160A Helpy 160A
			POTES IN 200A POTES INSA STATE OF THE STATE
			UCPY-1500V PVIZIN-ZOKA PVIZIN-K40KA UP-6-0KV
			E PE
	Pcs	2	
			0.4 00
Grounding connectors and conductors			
with roof mounted air termination rods			
	pcs	2	
Earth wire. Minimum 25mm2	m	30	

(A) (M) UNHCR

Earth electrode conductors and			
hardwares for bonding	pcs	3	
Disconnects for DC PV array input/out			
to CC or String Inverter	Pcs	6	
Disconnects for DC Battery bank to/from Inverter >175ADC	pcs	1	
Disconnects for AC power	pcs	2	
Spare parts as recommended by equipmen	t manuf	acturers	
(Optional)			
Surge arrestor/Surge protection device	pcs	1	
Disconnect fuses and breakers	pcs	2	
Charge controller boards	pcs	2	
Inverter fans	pcs	1	

Conduits and accessories, trunkings,			
cable trays/ducts	Unit	1	
Expand nails with Screws, Rawl bolts	Pkts	2	
Cable ties	Pkts	5	,
Insulating tapes	Rolls	12	
Integration Switch gears (Charge over			
switch) Manual or Auto	pcs	1	
Inverter/Charger AC in out, fine			
stranded wiring cables >10mm2	m	50	
Charge controller DC output, fine			
stranded wiring cables >			
35mm2	m	10	
Inverter/Charger/Battery DC in out,			
fine stranded wiring cables >70mm2	m	15	
DC bus bar, when necessary	pcs		
AC bus bar or AC distribution board.	pcs	1	
Cable lugs >70mm2	pcs	32	

Shipment and Handling			
From supplier's Warehouse to			
UNHCR Premises in Damazine. Cost			
is directly proportional to trip distance,			
cargo capacity, and feasible shipment			
mode.	trip	1	
VAT and other locally imposed taxes			
at the point of sell and during Cargo	lump		
shipment, from supplier to customer	sum	1	

Equipment Housing and Customization	NT 4		
House or Room or Shade or Space, which should be secured, vented, protected against extreme heat, not exposed to liquid substances ideally of temps at 25'C or lower.	lump sum	1	F



Container. Secured, protected			
against extreme heat, including			
interior insulation, exterior insulation.			
Cooled and not exposed to liquid	lump		
substances	sum	1	

Consultancy, Installation and Commissioning			
Solar Engineer, Technicians, and			
labour for all components of system			
installation; module rackings			
installation, pv module installation			
and cabling, battery bank installation,			
power system installation, and	lump		
commissioning.	sum	1	
Additional cost to be determined by			
supplier, incurred by customer for			
sites outside the company's			
installation team's commuting zone,			
to cater for eg. travels,			
accommodation, visa and other site	lump		
essential needs.	sum	1	

