


UNHCR

المفوضية السامية للأمم المتحدة لشؤون اللاجئين

ANNEX - C (FINANCIAL OFFER FORM)
Revised
Design, Supply and Installation of 30 KW Hybrid Solar PV System for Basirma PHCC, IRAQ

No.	Item Description	Unit	Quantity	Unit Price (USD)	Total Price (USD)
1	Hybrid PV Solar System , 30 KW . Full package Hybrid system with Battery Back-up able to connect to the National grid and Emergency Genset. All the material should be from the first quality European/USA Brands (Certificate of Origin will be required) with three years Warranty period.				
1.1	Solar Panels, Mono Crystalline or Polycrystalline PV Solar Modules 410 W, 144 cells (6x24), Half Cut Technology, PID Free Certificate, Min 20% Efficiency, internationally certified by TUV Rheinland to ISO, BS and UV standards (10 Years product Warranty & 25 Years performance Warranty) with Certificate of Origin (COO).	No.	78		-
1.2	PV panel connection box (DC Combiner) with DC Fuse Box, Earthing & Protection System.	Set	1		-
1.3	Aluminum Structure/Tower, Module Support Structure Foundation mounted type Or Rammed Steel Beam for Solar Panels of required high (according to the site requirements and supervisor Engineer instructions) for mounting the solar panels. (Or Roof Type) with a minimum of 10 years warranty.	Set	1		-
1.4	Hybrid Inverter, 30KW (3*10 KW or Equivalent), Minimum PV Array 11 KWp each, Minimum 96% Efficiency, Integrated MPPT, Charge Controller (80A), Transformerless, Pure Sign Wave, Online Monitoring System, Surge Protection & Protection System with all other fittings, accessories, and required works. Ambient Temperature -20 to +65 °C, IP 65 (USA, Japan & Western Europe Origin)- Min 3 Years Warranty.	Set	3		-
1.5	Battery Back-up, OPzV Type tubular Gel Battery, min 1500 Ah, 2V, with minimum 1500 Deep Discharge Cycles & and 7000+ Cycles at 50% DOD. Including All required Battery Racks, DC Fuse Box and Accessories. (USA, Japan & Western Europe Origin)- Min 3 Years Warranty.	Set	48		-
1.6	AC Switchgear for connecting the Inverter to the building SDB with All required types & sizes of Electrical Cables with all connections between Solar Panels, Inverter, National Grid and Terminal Electrical Boxes. 4, 2 cores DC, Copper Earth Cables with all required accessories.	Set	1		-
1.7	AC Control Board for control switching system between Solar System, National Grid and Generator with preset priority. It should include rewiring and separating the existing installation to Emergency Load (feed just by Solar) and None Emergency Load (feed by National Grid & Generator).	Set	1		-
1.8	Installation, Test, Commissioning of the solar system. The work includes training of the end user team on the operation and maintenance of the solar system.	L.S	1		-
2	Civil & Mechanical Works				
2.1	Roof Preparation, cutting, filling and preparation concrete blocks/ or rammed beams. Cable Trenches and cable pipes and accessories for Installation of PV Structure, necessary cable ducts and access ladders).	L.S	1		-
2.2	Design, supply material and installation of proper Solar Panel Automatic Washing/Flushing System, Booster Pumps with Pipe networks by using composite PPR (UV & Thermal resistance) PN 16 Bars & Dia, roof water tank of Min. 3000 liters storage capacity and then to the solar panels with all required fittings, gate & non-return valves, electronic automatic control system, and plumbing works. The designed system should cover all the panel surface and enough power for washing the panels).	L.S	1		-
Total Amount In USD					-

Quotation Validity: 90 Days Accepted
UNHCR payment Terms Accepted
Supply and installation time : 3-Months Accepted
Warranty and Defect Liability Period: 36-Months Accepted

Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>

Signatures: _____

Name & Title: _____

For and on Behalf of: _____

Date: _____