



**ARCENCIAEL - CENTRE DAMOUR**

**BOQ SOLAR SYSTEM**

**Mitigate the impact of food insecurity in local communities by strengthening the capacities of local producers**

Item	Description	Qty	Unit	Unit Rate	Amount US\$
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**STEEL WORKS**

**STEEL STRUCTURE**

Supply and Install steel structure support for PV panels composed from HEA 120MM, IPE 120MM , Galvanized steel tubes 100x50x2 mm, steel tubes 50x50x2mm plates, anchors, bolts,... including proper welding, painting zinc rich primar and epoxy paint , installation and all necessary works for the proper execution as per drawings

A	Steel structure GF	5,200	kg	\$	-
B	Supply and install TOT panels above the steel structure	175	M2	\$	-

Supply and Install Galvanized steel structure support for PV panels composed from steel tubes, plates, anchors, bolts,... including proper welding and welding zinc rich protection , installation and all necessary works for the proper execution as per drawings

C	Steel structure South Zone	4,500	Kg	\$	-
D	Steel structure North Zone	3,900	Kg	\$	-

To Collection \$ 0.00

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**ELECTRICAL WORKS**

**PV PANELS**

Supply install and connect the following 570W PV Panels including all required junction boxes, conduits, clamps, trays, fuses, DC cables and all needed accessories for perfect operation of the system.

A	570W photovoltaic panel	200	No	\$	-
B	2P 16A Fuse	13	No	\$	-
C	Earthing connections for PV panels Metal Structure	1	L.S	\$	-

**INVERTER & ACCESSORIES**

Supply, install and connect the following DC/AC 3 phase on-grid inverter, including breakers, conduits, boxes, trays, fuses, surge arresters, DC cables, data cables, outgoing MCCB protection breaker and all needed accessories for perfect operation of the system.

D	50 KW on-grid inverter	2	No	\$	-
E	30 KW on-grid inverter	1	No	\$	-
F	2P 16A Fuse	13	No	\$	-
G	Type 2, 40KA, PV Surge arrester and protection fuse	13	No	\$	-

**PANELBOARDS**

Supply, install and connect the following electrical panelboard, including enclosure, AC circuit-breakers, busbars, fuses, 40KA surge arresters, cabling, manual transfer switch (MTS), earthing bar, and all needed accessories for perfect operation of the system, etc. as shown on drawings

H	Distribution board ( DB Roof)	1	No	\$	-
I	Distribution board ( DB-B1)	1	No	\$	-

To Collection \$ 0.00

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Item	Description	Qty	Unit	Unit Rate	Amount US\$	
<b><u>WIRES &amp; CABLES</u></b>						
Supply, install and connect the following multicore cables CU/PVC/PVC with necessary ties, cable glands, cable cleats, conduits, trunks and all needed accessories for perfect installation.						
A1	4 x 10 mm <sup>2</sup>	20	m	\$	-	
A2	4 x 25 mm <sup>2</sup>	20	m	\$	-	
A3	4 x 70 mm <sup>2</sup>	30	m	\$	-	
A4	4 x 120 mm <sup>2</sup>	15	m	\$	-	
<b><u>DC CABLES</u></b>						
Supply, install and connect the following DC cables with necessary ties, conduits, boxes, outdoor work, excavation & backfilling, underground PVC conduits, including grounding DC wire and all needed accessories for perfect installation.						
B	2 x 6 mm <sup>2</sup>	700	m	\$	-	
<b><u>EARTHING SYSTEM</u></b>						
Supply, install, & connect complete earthing system as shown on drawings. The system shall include 20mm <sup>2</sup> copper electrodes driven into ground, manholes with iron cover, earth joints, clamps, ducts, exothermic welding, conduits and 50 mm <sup>2</sup> flexible earthing copper wires & all needed accessories in order to ensure 5ohms resistivity in dry season.						
C	Complete earthing system	LS	item	\$	-	
<b><u>DIESEL CONTROLLER (BY DEIF)</u></b>						
Supply, install and connect the following diesel generator controller as shown on drawings, including LCD screen controller, ensuring monitoring & controlling of generator operation, schedule feature & typical safety items such as: oil pressure, high temperature, over/high frequency, automatic fuel saving, low coolant, etc... conduits, grounding wire, AC&DC cables, and all needed accessories for perfect installation of the system.						
D	DEIF Diesel Generator Controller	LS	item	\$	-	
				To Collection	\$	<u>0.00</u>

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Item	Description	Qty	Unit	Unit Rate	Amount US\$
A	<u>SHOP DRAWINGS</u>	LS	item		\$ -
B	<u>AS BUILT DRAWINGS</u>	LS	item		\$ -
			To Collection	\$	<u>0.00</u>

SUMMARY

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**COLLECTION** \$ -