

# restart

**Warehouse - Deddeh Koura**  
Civil & MEP Works for Solar System with all related activities

---

11/30/2022

ITEM	ITEM DESCRIPTION	U.	QTY	UNIT PRICE USD	TOTAL PRICE USD
I.	<u>General Requirements</u>				
I.1	<u>Work insurance covering the following:</u> Workmen, Third Party liability and contractor all risk PER LUMP SUM THE UNIT RATE OF USD	LS	1.00		\$ -
I.2	<u>Engineering Fees covering coordination, Shop Drawings prior to execution, As-Built drawings &amp; site surveillance</u>  PER LUMP SUM THE UNIT RATE OF USD	LS	1.00		\$ -
II.	<u>Supply and installation of the following items for a single phase PV system</u> with a minimum total PV capacity of 8.7 KW				
II.1	<u>PV Panels including wiring (with earthing connection and accessories)</u> - Half cell monocrystalline, European Origin & Certified Brand - Minimum PV power: 540 W - 550 W  PER ITEM THE UNIT RATE OF USD	U	16.00		\$ -
II.2	<u>Inverter complete with configuration, accessories and wiring (with earth connection)</u> - Deye or equivalent - Minimum inverter size: 8 KW with integrated noise filter PER ITEM THE UNIT RATE OF USD	U	1.00		\$ -
II.3	<u>Lithium Batteries for renewable energy storage to be used for the night critical load</u> - Battery capacity: 300 Amp, 15 KW, 6000 cycles PER ITEM THE UNIT RATE OF USD	U	2.00		\$ -
Carried to Collection					\$ -

ITEM	ITEM DESCRIPTION	U.	QTY	UNIT PRICE USD	TOTAL PRICE USD
II.4	<u>Necessary cabling, breakers and accessories.</u> <i>Distance between PV panels &amp; inverter around 38 LM</i> AC breaker 2 x 32 A (qty 2) - Brand Schneider or equivalent DC breaker 32 A (qty 1) - Brand Schneider or equivalent DC breaker 250 A for batteries (qty 1) - Brand Schneider or equivalent Surge Arrester with port fuse AC 40KA, class B & C (qty 1) - Brand Dehn or equivalent Surge Arrester with port fuse DC 40KA, class C (qty 1) - Brand Dehn or equivalent Breaker DPN 16A for existing exhaust fan (qty 2) - Brand Schneider or equivalent Existing exhaust fans: 360CFM & 440 CFM DC cable 6mm from panel to inverter - European Brand MC4 - European Brand ATS 80 A - Brand Schneider or equivalent Labeling and comissioning  PER LUMP SUM THE UNIT RATE OF USD	LS	1.00	\$	-
II.5	<u>Installation fees</u> PER LUMP SUM THE UNIT RATE OF USD	LS	1.00	\$	-
II.6	<u>Galvanized steel structure thickness 3mm for solar system, including necessary civil works (concrete support pads and steel plates) with waterproofing floor protection for 16 PV panels.</u>  <i>As per attached drawing</i> <i>No drilling allowed on the roof</i> PER LUMP SUM THE UNIT RATE OF USD <i>Drawing Reference DR100</i>	LS	1.00	\$	-
II.7	<u>Testing and comissioning for solar system.</u> PER LUMP SUM THE UNIT RATE OF USD	LS	1.00	\$	-
II.8	<u>Earthing including copper rod (brand Wallis), 3 manhole pits, all necessary chemicals- bentonite, &lt;5 Ohm.</u> <i>Distance between pit &amp; electrical board around 52m</i>  PER LUMP SUM THE UNIT RATE OF USD	LS	1.00	\$	-
Carried to Collection					\$ -

ITEM	ITEM DESCRIPTION	U.	QTY	UNIT PRICE USD	TOTAL PRICE USD
III.	<u>Supply and installation of the following items for electrical room ventilation system</u>				
III.1	<u>Exhaust fan centrifugal inline ducted type 75CFM, 75Pa</u>				
	PER ITEM THE UNIT RATE OF USD	U	1.00		\$ -
III.2	<u>Exhaust grill 25cm x 25cm</u>				
	PER ITEM THE UNIT RATE OF USD	U	2.00		\$ -
III.3	<u>PVC ventilation pipe 6" (European Brand) up to roof including all fittings</u>				
	PER LINEAR METER THE UNIT RATE OF USD	LM	18.00		\$ -
III.4	<u>Electrical outlet for exhaust fan</u>				
	PER LUMP SUM THE UNIT RATE OF USD	LS	1.00		\$ -
III.5	<u>Additional breaker in panel board for new exhaust fan. Brand Schneider or equivalent</u>				
	PER LUMP SUM THE UNIT RATE OF USD	LS	1.00		\$ -
III.6	<u>Timer in panel board for exhaust fan</u>				
	PER LUMP SUM THE UNIT RATE OF USD	LS	1.00		\$ -
Carried to Collection					\$ -

ITEM	ITEM DESCRIPTION	U.	QTY	UNIT PRICE USD	TOTAL PRICE USD
IV.	<p><u>Supply and install dehumidification complete liable system, European Brand is a must, including all necessary accessories, cutting in existing slab, concrete patching &amp; epoxy floor paint to cover the drain pipe, connections, mechanism, drainage and power supply to control continuous humidity in order not to exceed 52% for electrical room</u></p> <p><i>Approximate area 15 m2</i> <i>Approximate drain pipe length 10m</i></p>				
	PER LUMP SUM THE UNIT RATE OF USD	LS	1.00		\$ -
V.	<p><u>Supply and install dehumidification complete liable system, European Brand is a must, including all necessary accessories, cutting in existing slab, concrete patching &amp; epoxy floor paint to cover the drain pipe, connections, mechanism, drainage and power supply to control continuous humidity in order not to exceed 60% for warehouse storage area</u></p> <p><i>Approximate area 125 m2</i> <i>Approximate drain pipe length 12m</i></p>				
	PER LUMP SUM THE UNIT RATE OF USD	LS	1.00		\$ -
Carried to Collection					\$ -
TOTAL					\$ -