Breakdown of the Lump Sum

	Bill of quantities for Sed el Baouchrieh Civil Defense Center	Breakdown of the Lump Sum			
No.	DESCRIPTION	UNIT	QTY	RATE USD	AMOUNT USD
	Unit rates here below shall include all required equipment, accessories and services to comply with specifications and				
	drawings, even if not mentionned in the herebelow desciptions. The contract price is a lump Sum price. Quantities mentionned are indicative. Contractor shall verify exact quantities. Herebelow untrates may be used for Variation Orders evaluation(if any)				
1.1	Solar PV Array PV Array complete with installation, wiring (with earth connection), accessories and installation as per drawings and	KWp	11	-	
2	specifications Metallic support Structure	KWP	- 11		
2.1	Supply, initial, test and commission of a roof mounted, metallic support structures (as per attached design), with all needed accessories for a complete installation, including site clearing, concrete sistes, metallic structure installation. The contractive that all useful for superal sufficiency last study for the perspond metal structure final design including a metal structure for such such processors of the superal support of the support of the support of the superal support of the support	LS	1		-
3	Hybrid Solar Inverter Supply, install, test and commission of 10 kW Single phase hybrid inverter(s) and monitoring system as per technical				
3.2	specifications and drawings complete with configuration accessories, wiring (with earth connection) and installation	Pcs	1	-	-
4	(multiple inverters can be parallelled). Battery Bank				
4.1	LiFePO4 Battery bank with BMS complete with configuration accessories, rack, wiring and installation. Cable Tray	kWh	20	-	-
5.1	Supply, install, test and commission of 10 cm width Hot dip galvanized covered cable tray for DC cables, AC cables and	Im	30		
6	connections inside the technical Space as per technical specifications and drawings DC Combiner / protection	LM	30		
- 6	Supply, install, test and commission of waterproof IP65 metallic enclosure DC combiner Box as per technical				
6.1	specifications and drawings including: Pi Fuest for positive and negative polarities PV Fuest holdess DC Surea erreiter Calcel gainst for the DC cable exiting the combiner box MC4 connectors, for direct (id)-in/clip-out connection of the PV solar DC cables to the DC combiners DC breakers 2-pole DC breakers 2-pole DC breakers 2-pole DC breakers 2-pole	LS	1	-	-
7	Bus bar on positive and negative polarities DC Solar Cables				
7.1	Supply, install, test and commission of solar PV cable as per technical specifications and drawings	LS	1	-	-
8	AC Cables				
8.1	Supply, install, test and commission of AC power cables 4x16+16mm2 as per technical specifications and drawings Technical Equipment Room Balance Of System	Lm	40	-	_
9.1	Following is a list of main components and requirements only: Supply and install 2 Namual Trander Switcher (rated 2A40 amps) including necessary AC cabling and circuit breakers Supply and install 2 Automatic Transfer Switches (rated 2A40 amps) including necessary AC cabling and circuit breakers Supply and install all required accessories and protection devices for inverters and battery pack. The bidder has to make sure to include all necessary equipment relevant to this chosen technical room design.	LS	1	-	-
10	Earthing and Lightning Protection System				
					1
10.1	Supply, install, test and commission of an earthing and Lightning Protection System, including all elements and connections as specified.	LS	1	-	-
10.1 11 11.1	Supply, install, test and commission of an earthing and Lightning Protection System, including all elements and connections as specified.	LS Pcs	1	-	-
11 11.1	Supply, instals, test and commission of an earthing and Lightning Protection System, including all elements and connections as specified. Spare parts Solar PM modules 10 additional DC Guese	Pcs	1	-	-
11	Supply, install, test and commission of an earthing and Lightning Protection System, including all elements and connections as specified. Spare parts Solar PV modules		1 1 1		-
11 11.1	Supply, install, test and commission of an earthing and Lightning Protection System, including all elements and connections as specified. Space parts Solar PV modules 10 additional DC Guser Additional 2 DC Surge Arrestors	Pcs	1	-	-
11 11.1 11.2	Supply, install, test and commission of an earthing and Lightning Protection System, including all elements and connections as specified. Spare parts Solar Pri Mondels Joseffician 2 Co Surge Arrestors Additional 2 Co Surge Arrestors Additional 2 Co Surge Arrestors Additional 2 Co Surge Arrestors	Pcs	1	-	
11 11.1 11.2	Supply, install, test and commission of an earthing and Lightning Protection System, including all elements and connections as specified. Spare parts Solar Pri Mondles: 10 additional Dr. Clause Partness Additional 2 Co Surge Arrestors Additional 2 Co Surge Arrestors Miscellaneous works Supply and install a double-glazed aluminum stiding window system for backony use, including all necessary hardware, and, and locking mechanism. The system shall feature high-quality aluminum frames with smooth sliding tracks, and	Pcs Pcs	1	-	-
11 11.1 11.2 12 12.1	Legoly, including all elements and commission of an earthing and Lightning Protection System, including all elements and commissions as specified. Sparse parts Solar Pri modelles 30 additional O. For Arrestors Auditional 2. Act Surge Arrestors Michicellaneous works Supply and install a double-glazed aluminum sliding window system for balcony use, including all necessary hardware, seaks, and ocking mechanisms. The system shall feature high-quality aluminum frames with smooth skilling tracks, and divorable works proteing to ensure energy efficiency and longware. Supply and install a double-glazed aluminum sliding window system for balcony use, including all necessary hardware, seaks, and ocking mechanisms. The system shall feature high-quality aluminum frames with smooth skilling tracks, and divorable workship enough go better band on the state of the state o	Pcs Pcs	1 1 9	-	-
11 11.1 11.2 12.1 12.1	Sopply, install, test and commission of an earthing and Lightning Protection System, including all elements and connections as specified. Soziar Print Moubles 10 additional Dr. Green 10 additio	Pcs Pcs Units	9	-	-
11 11.1 11.2 12.1 12.1	Leaphy, restal, test and commission of an earthing and Lightning Protection System, including all elements and commissions as specified. Space parts Space part	Pcs Pcs Units	9 2	-	-
11 11.1 11.2 12.1 12.1	Sopp), mosts, test and commission of an earthing and Lightning Protection System, including all elements and commercious as specified. Sozier parts Sozier	Pcs Pcs Units	9 2	-	-
11 11.1 11.2 12.1 12.1 12.2	Leaphy, restal, test and commission of an earthing and Lightning Protection System, including all elements and commissions as specified. Space parts Space part	Pcs Pcs Units Units	9 2 1 1 180	-	-
11.11.11.11.12.11.11.11.11.11.11.11.11.1	Speep in testal, test and commission of an earthing and Lightning Protection System, including all elements and commissions as specified. Spee parts Solar Arr model of the speep in the	Pcs Pcs Units Units	9 2 1 1 180	-	-