

## Solar energy estimates 28.5KW

NO	DESCRIPTION	ITEM #	quantity	UNIT PRICE	LINE TOTAL
1	Solar Panel Monocrystalline half cut cell 570w "A" Solar Array Size: 570w Voltage: Cell Type: Monocrystalline Maximum System Voltage: 1000V Number of Cells in Series: 144	Pieces	50		
2	Solar Panel Stand 2 Coated ordinary paint to avoid corrosion and rust.	Pieces	50		
3	Lithium Battery 12kw High Quality LFP51.2V225AH LiFePO4 Battery Power 51.2V 225Ah /11520Wh Life Span 6000 Cycle / Max Parallel 12 Voltage Range 40V-58.4V Charge/Discharge Current 400A Communication Port Rs232 / Rs485/CAN Working Temperature -10~60° Net Weight 84.6KG Dimension (*L*W*H) 527*420*260mm	Pieces	6		
4	Hybrid Solar Inverter 5.5KW On Grid/Off Grid High Quality Max Parallel 9 / Rated Power 5500VA Voltage / 230Vac±5% No. Of Output 2 / Rated Current 21.8A / Voltage Range 40-60VDC / Rated Voltage 48VDC / Voltage Range 90-280Vac Frequency 50Hz/60Hz / Max AC Bypass Current 40A / Max AC Charge Current 80A / Max Power 6000W Max Open Voltage 500V / MPPT Input Voltage 120-450 Max Charge Current 80A	Pieces	6		
5	Cable 1x6mm	M	100		
6	Cable 2x16mm,	M	200		
	DC Cable 1x35/ Cable 4x50mm	M	12/12		
7	DC Main Breaker 2P 125Ah	Pieces	1		
8	DC Main Breaker 2P 63Ah	Pieces	6		
9	DC Breaker 1P 63A	Pieces	6		
10	Cable tie different sizes	Pieces	6		
11	Timpole different sizes	Pieces	6/35		
12	MC4 Connector	Pieces	24		
13	Inverter & Battery Wiring Settings	Pieces	1		
14	Solar Mounting Structure Foundation "RCC"	Pieces	1		
15	Solar Combiner Box 63A, Changawer,200A,3P, Overloads 80A/3P,Magnite,timer PV Combiner Box, 8 String with 63A Rated Current DC Fuse, 63A Circuit Breaker, Lightning Arrester Connector for On/Off Grid Solar Panel System, IP65	Pieces	1		
16	Automatic Panel Box 250A/400A All Function Controller	Pieces	1		
17	Earthling and Lighting Arrestors	Pieces	1		
18	DC Surge Arrester 20 - 40Kv/1000V	Pieces	5		
19	Conduct/DAK 60x80	Pieces	6		
20	Delivery and Installation	Pieces	1		
<b>Total:</b>					

**Requirements for Technical proposal:**

1. Project Overview
2. Project Summary
3. General Parameters
4. Main Meteorological Condition
5. Loss Diagram
6. Solar Mounting Structure Design/Specification
7. Solar PV Installation System Diagram
8. Solar Farm Earthling Design & Modelling Guide
9. Inverter & Battery DC Wiring Diagram
10. AC Solar Panel Shop Drawing
11. AC DC Solar Panel Specification
12. Connection from PV Solar Panel to Junction Box DC "Shop Drawing"
13. Inverter Specification
14. Inverter Technical Data
15. Battery Specification
16. Battery Technical Data
17. Solar Panel Specification
18. Solar Panel Technical Data
19. Project Implementation & Delivery Plan
20. Earthling and Lighting Arrestors
21. Health and Safety
22. Safety Plan
23. Code of Conduct
24. Solar Power Maintenance and Service Guide
25. Warranty