

Technical Specifications for Goods Lot 1: Installation of Solar Power System at the Disaster Recovery (DR) site at The Nigeria Immigration Service Akwa Ibom State Command

S/N	Item	Specification	Brand	Warranty Period	Unit	QTY	Rate	Amount
1	Solar panels	410W 54V monocrystalline panel			PCS	80		
2	Solar rails	Aluminium rails with accessories			Sets	20		
3	Solar Car port	20X6X3m 15 degrees tilted Galvanized steel iron			PCS	1		
4	Solar combiner box	2way combiner box 125A			PCS	4		
5	Solar MC4 connectors	Double connectors (male and Female)			Sets	15		
6	Solar MC4 connectors	Single (male and Female)			Sets	25		
7	Charge controller	100A/250V MPPT			PCS	6		
8	Inverter	6KW/48V Pure sine wave 230V/50Hz			PCS	2		
9	Remote controller (SCP)	Specification for inverter			PCS	1		
10	Combox	Specification for inverter			PCS	1		
11	AC & DC Distribution panel	Specification for inverter			PCS	1		
12	Battery	2V/1500AH sealed-lead acid with accessories			PCS	48		
13	Battery rack	Galvanized iron stand			PCS	2		
14	Battery disconnects	DC disconnect 160A-200A			PCS	2		
15	Output breaker	63A 2pole breaker			PCS	4		
16	PVC box	10way box			PCS	1		
17	Changeover switch	63A Changeover switch			PCS	1		
18	Distribution board	10 blocks DB Single phase			PCS	1		
19	Solar connection cable	6mm 2core flexible cable			meters	300		
20	Combiner to charge controller cable	16mm flexible cable			meters	60		
21	Charge controller to battery cable	35mm flexible cable			meters	60		
22	Battery to inverter cable	50mm flexible cable			meters	30		
23	Busbar collector	400A busbar with conduit box			meters	1		
24	Inverter to changeover and DB cable	16mm flexible cable			meters	150		
25	trunking	25mm-100mm			LOT	10		
26	Earth rod	3 fits 100% coper			PCS	2		
27	Earth cable	4mm single core			meters	50		
28	Earthing accessories	Mat/Salt			PCS	2		
	Material Cost Estimate							
	Installation Cost							
	Total Project Cost							