

Lot 2: Solar Power Upgrade for The Reference Center and MIDAS room at The Nigeria Immigration Service Head Quarters, FCT, Abuja

S/N	Item	Specification	Brand	Warranty	Unit	Qty	Rate	Amount
1	Solar panels	320W 24V monocrystalline panel			PCS	45		
2	Solar rails	Aluminium rails with accessories			Sets	12		
3	Solar combiner box	4way combiner box 125A			PCS	2		
4	Solar MC4 connectors	Double connectors			Sets	16		
5	Solar MC4 connectors	Single			Sets	24		
6	Charge controller	XW MPPT High Voltage Solar Charge Controller 80a-600VDV with Switch breaker (20A)			PCS	1		
7	Inverter	8.5KVA 240V pure sine wave inverter			PCS	2		
8	Battery	2V/1000AH sealed-lead acid with accessories			PCS	24		
9	Battery rack	Gavalnized iron stand			PCS	1		
10	Battery disconnects	DC disconnect 160A-200A			PCS	1		
11	Output breaker	63A 2pole breaker			PCS	2		
12	AC Surge protector	415V single phase			PCS	2		
13	PVC box	10way box			PCS	1		
14	Distribution board	12 blocks DB			PCS	1		
15	Distribution board	6 blocks DB			PCS	1		
16	Solar connection cable	6mm 2core flexible cable			meters	200		
17	Combiner to charge controller cable	16mm flexible cable			meters	20		
18	Charge controller to battery cable	35mm flexible cable			meters	10		
19	Battery to inverter cable	50mm flexible cable			meters	20		
20	Busbar collector	400A busbar with conduit box			meters	1		
21	Inverter to changeover and DB cable	16mm flexible cable			meters	100		
22	trunking	25mm-100mm			LOT	20		
23	Earth rod	3 fits 100% coper			PCS	2		
24	Earth cable	4mm single core			meters	50		
25	Earthing accessories	Mat/Salt			PCS	2		
26	Material Cost Estimate							
27	Installation And Logistics							
28	Total Project Cost							