



SUFA Project
Annex 1 - Electrical & Structural Equipment for PV Projects

Item	Description	Brand	Quantity	Unit
Section 1 - Inverters & Chargers				
1.1	Hybrid Inverter 12kW - 3 Phase with PV Input		8	Item
1.2	Inverter/Charger - Single Phase 5kW without PV Input		3	Item
1.3	Solar Charger 250V/85A		4	Item
1.4	Communication Centre Device for Inverter/Charger		1	Item
Section 2 - Cables & Earthing Accessories				
2.1	PV Cables 4mm2		3000	Meter
2.2	AC Cables 2x4mm2 NYMHY		180	Meter
2.3	AC Cables 4x6mm2 NYMHY		90	Meter
2.4	AC Cables 4x10mm2 NYMHY		260	Meter
2.5	AC Cable 4x16mm2 NYM		330	Meter
2.6	DC Cable 1x25mm2		90	Meter
2.7	DC Cable 1x70mm2		150	Meter
2.8	Earth Cable 1x4mm2 Yellow/Green NYAF		180	Meter
2.9	Earth Cable 1x16mm2 Yellow/Green NYAF		630	Meter
2.10	Copper Rod 17.2x1500mm 3/4" Thread		12	Item
2.11	Earth Pit Concrete 320x320x190mm		12	Item
2.12	6 Ways Earth Bar with Twin Disconnect 570x90x60mm		4	Item
2.13	6 Ways Earth Bar 500x90x60mm		4	Item
2.14	Copper busbar 2x0.5x100cm		8	Item
Section 3 - Protection & Control Devices				
3.1	2P DC Breaker 250A MCCB		11	Item
3.2	2P DC Breaker 125A MCB		4	Item
3.3	4P MCB AC Breaker 25A		1	Item
3.4	4P MCB AC Breaker 40A		25	Item
3.5	4P MCB AC Breaker 63A		7	Item
3.6	4P MCB AC Breaker 100A		3	Item
3.7	4P RCD 300mA 25A		9	Item
3.8	4P Contactor 220VAC 100A		4	Item
3.9	2P Change Over Switch 40A		58	Item
3.10	4P Change Over Switch 100A Rail Mounted		17	Item
3.11	4P Change Over Switch 250A Rail Mounted		2	Item
3.12	Disconnect Switch DC 32A		12	Item
Section 4 - Mounting Structure & Installation Accessories				
4.1	Steel Structure for PV panels		105	Item
4.2	Concrete Blocks 400x200x8 (15kg)		945	Item
4.3	Galvanized Side Clamps for PV Panels		630	Item
4.4	Galvanized Steel Cable Tray 10cm + All Galvanized Steel Accessories (Cover, Clips, etc.)		75	Meter
4.5	PVC Cable Trunk 10x6cm (2m) Perforated		26	Item
4.6	PVC Conduit 32mm		410	Meter
4.7	PVC Elbow 32mm		46	Item
4.8	PVC Clips 32mm		410	Item
4.9	PVC Connectors 32mm		140	Item
4.10	PVC Cable Glands 32mm		24	Item
4.11	PVC Enclosure 38x30cm		8	Item
Section 5 - Miscellaneous				
5.1	PVC Enclosure 36 Modules, Transparent Door		18	Item
5.2	Steel Enclosure 80x60x25cm with backplate IP65		5	Item
5.3	Steel Enclosure 40x30x17cm with backplate IP65		11	Item
5.4	Over Under Voltage, Phase Failure, Phase Sequence Relay		4	Item
5.5	Power Meter, 3 Phase, Rail Mounted (V, A, kWh)		4	Item
5.6	DC Fuse 20A + Port Fuse Rail Mounted		32	Item
5.7	AC Fuse 2A + Fuse Holder		16	Item
5.8	DC Fuse 250A + Fuse Holder		22	Item
5.9	Cable Lugs 70/10mm2		160	Item
5.10	Cable Lugs 16/8mm2		115	Item
5.11	Electric Tape 3M (4 Colors, Red, Black, Blue, White)		37	Item
5.12	Heat Shrink 70 mm2 (Red, Black)		16	Meter
5.13	Ferrules 10mm2		200	Item
5.14	Ferrules 4mm2		200	Item
5.15	Fischer 6mm2		200	Item
5.16	Fischer 8mm2		200	Item
5.17	Screws 5cm		200	Item
5.18	Screws 7cm		200	Item
5.19	Cable tie 365x7.5mm		700	Item
5.20	Cable tie 150x5mm		700	Item
5.21	Polyurethane Sealant Tube 600mL		5	Item
5.22	Fire Extinguisher 5kg CO2		4	Item
5.23	Cat 6 Lan Cable		300	Meter
5.24	Internet Repeater with RJ45 Port		4	Item
5.25	Delivery to Sites and Roofs	NA	Ls	Item