

PV O&M Maintenance Checklist

Solar Operation & Maintenance

FREQUENCY: ● Semi-Annual ● Yearly ● Daily (remote) ● Priority task

#	SYSTEM	ACTIVITY	
1	PV Modules	Visual inspection of module conditions	Semi-Annual
2	PV Modules	Washing and cleaning	Semi-Annual
3	PV Modules	DC string current control	Daily (monitoring)
4	PV Modules	Steel structure oxidation check	Semi-Annual
5	PV Modules	Structure nut/bolt tightening	Yearly
6	Inverters	Visual inspection	Semi-Annual
7	Inverters	Heat sink cleaning	Semi-Annual
8	Inverters	Temperature & fan check	Daily (monitoring)
9	Inverters	Electrical output vs. expected values	Daily (monitoring)
10	Inverters	Mapping & optimization	Yearly
11	LV Switchgear	Visual inspection	Semi-Annual
12	LV Switchgear	Surge protector check	Semi-Annual
13	LV Switchgear	Plant restart sequence check	Semi-Annual
14	MV Switchgear	Thermography inspection	Semi-Annual
15	MV Switchgear	Cleaning	Semi-Annual
16	Transformer	Visual inspection	Semi-Annual
17	Cables/Wiring	Wire fault check (loose, earth leakage)	Semi-Annual
18	Cables/Wiring	Tightening in connection boxes	Semi-Annual
19	Cables/Wiring	Visual inspection	Semi-Annual
20	Fencing & Gates	Fence/gate check	Semi-Annual
21	Vegetation	Ground keeping & vegetation control	Semi-Annual
23	Cabins	Internal room condition check	Semi-Annual
24	Cabins	Spare parts inventory check	Semi-Annual