Application for Solar PV System's Commissioning & Grid-Connection

Application Number	---------- *(SN)/*	*PV_CC*	*/---------- (Year)*

Information of the Applicant's POC

Organization (if applicable) ..... *CR* .....

First Name ..... *Last Name* ..... *CPR* .....

Block ..... *Road* ..... *Building* .....

Telephone ..... *Mobile* ..... *e-mail* .....

PV Capacity of Preliminary-Approval ..... *kW* *Proposed PV Capacity (if different)* ..... *kW*

Voltage Delivery ..... *V* *SPN (if applicable)* .....

Attached Approved Solar PV Design Application? ☐ *Notes* .....

Information of the Assigned Contractor

Name ..... *CR* ..... *Level* .....

Governorate ..... *Block* ..... *Area* .....

Building ..... *Road* ..... *Fax* .....

Telephone ..... *Mobile* ..... *e-mail* .....

Information of the Assigned Consultant – if any

Name ..... *CR* ..... *Level* .....

Governorate ..... *Block* ..... *Area* .....

Building ..... *Road* ..... *Fax* .....

Telephone ..... *Mobile* ..... *e-mail* .....

Civil & Structural

	Pass?
Foundations (state, breakage, deterioration of the surface)	☐
Structural and PV modules alignments as per the submitted design	☐
Roof-integrity and ingress-protection of mounting system	☐
General conditions of the cabins with their access-door	☐
Integrity and layout of cableways & conduits	☐
Mounting of supporting structures	☐
Condition of the components (damages, defects, corrosion, ...)	☐
Bolts and tightening conditions	☐

Solar PV Equipment	
	Pass?
Mechanical integrity of the components (faults, breakdowns or incomplete assembly)	☐
Labeling of all components	☐
Correct equipment's sizing as per the approval submitted designs	☐
No shading obstructions for all PV modules	☐
Tightening of cable glands with the correct installation as per EWA's regulations	☐
Assembly and crimping of plug-in connectors	☐
Positioning and fixation of all components, with enough inverter's ventilation	☐
IP-degree of all equipment as per the submitted design	☐
Positioning and fixation of all components	☐
DC & AC Protection & Labeling	
	Pass?
The measured maximum PV array voltage is as per the submitted design	☐
Functional earthing and bonding for all equipment	☐
PV array's earth residual current monitoring detection is functional	☐
All circuits, protective devices, switches and terminals suitably labeled	☐
Means of isolation on the AC side is clearly labeled, with healthy-fuses (if applicable)	☐
Dual supply warning labels are fitted at point of interconnection	☐
A SLD with shutdown-procedure are displayed on-site where PV modules are installed	☐
All signs and labels are suitably affixed and durable	☐
Cables' Insulation Resistance	
	Submitted?
DC cables' insulation resistance seclude with date and signature	☐
AC cables' insulation resistance seclude with date and signature	☐
Interface-Protection	
	Pass?
The enabled functions of the interface protection are those required by EWA	☐
The thresholds are those required by EWA	☐
Interface protection settings are attached herewith	☐

Measured Data at Commissioning Connection – Witnessed by EWA	
	Measurement?
In-plane irradiance (POA)	.....
PV modules' temperature	.....
Ambient air temperature	.....
DC side:	.....
— *Array voltage*	.....
— *Array current*	.....
AC side:	.....
— *Array voltage*	.....
— *Array current*	.....
Output power-factor	.....
Requirement to measure the voltage and current for each string (shall be enclosed)	☐
Interface device switches off in case of power-cut (anti-islanding)?	☐
After a power recovery the interface-protection recloses the dedicated switch?	☐
Power-Quality & Special Requirements While Commissioning (if applicable) – Witnessed by EWA	
	Measurement?
Voltage Total-Harmonic-Distortion (AC side):	
— *R-G*	.....
— *Y-G*	.....
— *B-G*	.....
— *N-G*	.....
Current Total-Harmonic-Distortion (AC side):	
— *R-G*	.....
— *Y-G*	.....
— *B-G*	.....
— *N-G*	.....
Post-submission for a detailed harmonics' readings, if necessary?	☐
Special testing for both external interface-protection and the transformer, if applicable?	☐

Submitted by	.....	*Date and EWA result*	..... ☑ *Pass* ☐ *Fail*
Date & signature	.....	*Name & signature*	.....