

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

Application BENAYAT Number NM / ----- (SN) / ----- (Year)

Information of the Applicant's POC

Organization (if applicable) CR

First Name Last Name CPR

Block Road Building

Telephone Mobile EWA Account Number

Solar PV Panels Capacity kW Solar PV Inverter Capacity kW

Voltage Delivery V Tariff Meter #

PV Meter # Applicant's Signature

Information of the Assigned Contractor

Name CR EDD License #

Level Block Road

Building Telephone Mobile

Fax e-mail Company's Stamp

Information of the Assigned Consultant(s)

Consultant-1

Name CRPEP License #

Level Company's Stamp

Consultant-2 (if any)

Name CRPEP License #

Level Company's Stamp

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/enclosures 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)	<input type="checkbox"/>
Labeling of all components	<input type="checkbox"/>
Correct equipment's sizing as per the approval submitted designs	<input type="checkbox"/>
No shading obstructions for all PV modules	<input type="checkbox"/>
Tightening of cable glands with the correct installation as per EWA's regulations	<input type="checkbox"/>
Assembly and crimping of plug-in connectors	<input type="checkbox"/>
Positioning and fixation of all components, with enough inverter's ventilation	<input type="checkbox"/>
IP-degree of all equipment as per the submitted design	<input type="checkbox"/>

DC & AC Protection & Labeling

Pass?

The measured maximum PV array voltage is as per the submitted design	<input type="checkbox"/>
Functional earthing (if applicable) and bonding for all equipment	<input type="checkbox"/>
PV array's earth residual current monitoring detection is functional (if applicable)	<input type="checkbox"/>
All circuits, protective devices, switches and terminals suitably labeled	<input type="checkbox"/>
Means of isolation on the AC side is clearly labeled, with healthy-fuses (if applicable)	<input type="checkbox"/>
Dual supply warning labels are fitted at point of interconnection	<input type="checkbox"/>
A SLD with shutdown-procedure are displayed on-site where PV modules are installed	<input type="checkbox"/>
All signs and labels are suitably affixed and durable	<input type="checkbox"/>

Strings' Voltage and Cables' Insulation Resistance & Continuity

Submitted?

Strings' Voltages with date, ambient temperatures and contractor's signature	<input type="checkbox"/>
DC cables' continuity & insulation resistance seclude with date and contractor's signature	<input type="checkbox"/>
AC cables' continuity & insulation resistance seclude with date and contractor's signature	<input type="checkbox"/>

Interface-Protection for Inverter(s) and External IP (if applicable)

Pass?

The enabled functions of the interface protection are those required by EWA	<input type="checkbox"/>
The thresholds are those required by EWA	<input type="checkbox"/>
Interface protection settings are attached herewith	<input type="checkbox"/>



Measured Data at Commissioning Connection – Witnessed by EWA

Measurement?

In-plane irradiance (POA)

PV modules' temperature

Ambient air temperature

DC side:

– *Cumulative array voltage*

– *Cumulative array current*

AC side:

– *Cumulative array voltage*

– *Cumulative 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, signature & stamp*

Application Number *Witnessing Date & Stamp*

EWA's Result *Pass* *Fail* *PV Meter(s) CT ratio*

