

KINGDOM OF BAHRAIN

Electricity & Water Authority | Electricity Distribution Directorate

PAGE

OF

1

.

Application	for Solar P	V System's	Commissioning & Gr	id-Connection		
Application Number	- (SN)/	PV_CC	/ (Yea	nr)		
Tipplication Ivalliber	(511)/	1 / _ 0 0	/ (100	A1)		
Information of the Applicant's POC						
Organization (if applicable)				CR		
First Name	Last Na	me		<i>CPR</i>		
Block	Road			Building		
Telephone	Mobile .			e-mail		
PV Capacity of Preliminary-Approva	1	kW	Proposed PV Capac	city (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						



KINGDOM OF BAHRAIN

Electricity & Water Authority | Electricity Distribution Directorate

PAGE

OF

2

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	



KINGDOM OF BAHRAIN

Electricity & Water Authority | Electricity Distribution Directorate

PAGE

OF

3

3

	Measured Data at Commissioning	Connection – Witnessed	by EWA
			Measurement?
In-plane irradiance	(POA)		
PV modules' temper	rature		
Ambient air temper	rature		
DC side:			
 Array voltage 			
 Array current 			
AC side:			
 Array voltage 			
 Array current 			
Output power-facto)r		
Requirement to med	asure the voltage and current for eac	h string (shall be enclose	d) 🗆
Interface device swi			
After a power recov	very the interface-protection recloses	the dedicated switch?	
Power-Qua	lity & Special Requirements While Co	mmissioning (if applicab	le) – Witnessed by EWA
			Measurement?
Voltage Total-Harn	nonic-Distortion (AC side):		Measurement?
Voltage Total-Harn — R-G	nonic-Distortion (AC side):		Measurement?
_	nonic-Distortion (AC side):		
— R-G	nonic-Distortion (AC side):		
- R-G - Y-G	nonic-Distortion (AC side):		
R-GY-GB-GN-G	nonic-Distortion (AC side): nonic-Distortion (AC side):		
R-GY-GB-GN-G			
 R-G Y-G B-G N-G Current Total-Harm			
 R-G Y-G B-G N-G Current Total-Harn R-G 			
- R-G - Y-G - B-G - N-G Current Total-Harn - R-G - Y-G			
- R-G - Y-G - B-G - N-G Current Total-Harn - R-G - Y-G - B-G - N-G		cessary?	
 R-G Y-G B-G N-G Current Total-Harm R-G Y-G B-G N-G Post-submission for	nonic-Distortion (AC side):		
- R-G - Y-G - B-G - N-G Current Total-Harn - R-G - Y-G - B-G - N-G Post-submission for	nonic-Distortion (AC side): a detailed harmonics' readings, if ne		
- R-G - Y-G - B-G - N-G Current Total-Harn - R-G - Y-G - B-G - N-G Post-submission for Special testing for b	nonic-Distortion (AC side): a detailed harmonics' readings, if ne	l the transformer, if appl	
 R-G Y-G B-G N-G Current Total-Harn R-G Y-G B-G N-G Post-submission for Special testing for be Submitted by 	nonic-Distortion (AC side): a detailed harmonics' readings, if ne	l the transformer, if appl Date and EWA result	