

To

The Manager (.....)

CESC Ltd

Date:

Sub: Certificate Of Fitness For Grid-Connected Solar PV Generating System Under Net-Metering / Net-Billing Arrangement

Sir/Madam,

This has reference to my/our application no.....dated..... for installation of Grid-connected Solar PV Generating System (SPGS) under net-metering / net-billing arrangement.

I/We confirm that I/We have completed the installation of the grid connected SPGS and necessary tests were carried out to determine correct operation of islanding, generation of harmonics and power quality parameters of the SPGS, as specified in the West Bengal Electricity Regulatory Commission (Cogeneration and Generation of Electricity from Renewable Sources of Energy) Regulations, 2013 as amended by the First Amendment Regulations, 2020. A copy of the certificate of fitness is enclosed herewith.

I/We also confirm that I/We shall maintain and operate the SPGS in a manner such that it does not pose any threat or cause any damage to the distribution network of CESC Ltd. I/We further confirm to rectify any defect in the SPGS which may affect its operation adversely.

Signature of the Eligible Consumer

Name of the Eligible Consumer.....

Consumer/Customer Id.....

Enclosures:

1. Certificate of Fitness
2. Test Reports



CERTIFICATE OF FITNESS

SPGS of ____ kW

Date of Installation:

Solar Module Model No.	Make:	No. of Modules: Individual Capacity:	Total Capacity (kW):
Inverter Details:	Make:	Model No.:	
No. of Inverters Installed:	AC Capacity of individual Inverter (kW):	Total AC capacity of Inverter (kW):	Serial No(s).:
GPS Co-ordinates of the SPGS Installation:		SPGS with battery back-up: (Yes/No)	

Installed at premises no. _____, Kolkata _____

[Pursuant to our engagement by _____ [name of Eligible Consumer], we have inspected the above captioned SPGS on _____] “or” [I / We, [name of the Eligible Consumer], have carried out the test in presence of representatives of CESC Limited on _____].

Upon such inspection it is hereby certified that the SPGS with installed capacity of ____ kW, manufactured by _____, conforms to the specifications mandated by the West Bengal Electricity Regulatory Commission (Cogeneration and Generation of Electricity from Renewable Sources of Energy) Regulations, 2013 as amended by the First Amendment Regulations, 2020 (hereinafter for brevity's sake referred to as ‘the Regulations’). In particular and without prejudice to the foregoing, the said SPGS conforms to correct operation of islanding, generation of harmonics and other Power Quality parameters as per limits specified in the Regulations. The SPGS is found to be technically fit and suitable for connectivity with the distribution network of the Distribution Licensee.

This certificate is valid for a period of one year and is subject to periodic renewal. The validity of this certificate is further subject to operation, maintenance and rectification of any defect in the SPGS in a manner which ensures that its connectivity does not pose any threat or damage to the distribution network.

[Signature with seal]

Of the Authorized Vendor / Eligible Consumer

Date :

Place :



**Test Format for
Issuance of Certificate of Fitness of Solar Power Generating System (SPGS)**

Reference No. :

Date :

Consumer Name :

Consumer No :

Address :

Test for : New Installation / Periodic Checking (✓ the appropriate)

Details of Solar PV Generator

Solar Module Model No.:	Make:	No. of Modules: Individual Capacity:	Total Capacity (kW _p):
Inverter Details:	Make:	Model No.:	
AC Capacity of Inverter (kW):	GPS (up to 6 decimal places):		
Inverter Serial No.:	SPGS with battery back-up: Yes/No (✓ the appropriate) If Yes, Capacity of Battery:		

The performance/functionality of the Inverter along with Solar PV Generator was checked/tested for the following parameters:

a) Anti-islanding test (As per IEC 62116/IEC 61727):

Voltage at the inverter terminal (with grid synchronised for testing purpose) : R-N:..... Y-N:..... B-N:.....

Voltage at inverter terminal after grid failure : R-N:..... Y-N:..... B-N:.....

Anti-islanding (As per IEC 62116/IEC 61727) : **Ok / Not Ok** (✓ the appropriate)

b) % THD in Voltage - Measured athours, during load-off condition:

Permissible Voltage Distortion Limits (As per IEEE 519 : 2014)	
Voltage Level	THD (%)
V <1.0 kV	8.0
1kV <V<= 69 kV	5.0
69 kV <V<= 161 kV	2.5

Voltage Distortion				
Voltage Level :				
Condition	THD (%) Measured			
	R-N	Y-N	B-N	Overall
SPGS OFF				
SPGS ON				
As per IEEE-519 : Ok/Not Ok (√ the appropriate)				

Power Generated by SPGS (as available in the inverter display panel / measured): Watt

Current by SPGS (during SPGS ON without load): Measured :A : Inverter Display :A

c) Manual Isolation Switch for Battery Back-up System : **Yes/No** (✓ the appropriate)

d) Other Observations/Remarks (if any)

e) Test Equipment Used:

Type:.....; Make:.....; SI No.:.....; Last Calibration Details:.....

Test Carried Out By Authorised Agency / Eligible Consumer: Name :
Signature:

Encl : a) Single Line Diagram schematic diagram (to be furnished by the customer)

b) Manufacturer's test certificates (to be furnished by the customer)

: Yes / No
: Yes / No

N.B : Empaneled Third Party agency has carried out the test / the Eligible Consumer carried out the test in presence of CESC representative.

This sheet is to be used for one inverter. For multiple inverters, kindly use multiple sheets.

