## <u>Hybrid Rooftop Solar Power Electrical Installation - LV Metered Customers</u>

## (Annex 5) Compliance Inspection (For Hybrid Inverters Type I/Type II)

Customer Name and Electricity Account No.	Contact No:
Installation address:	Date:
Description of Work under Test:	Test Instruments:

D	ETAILS OF THE HYBRIC	INVERTER		
	Brand(s) of the Inverter(s)	a.	2.	Country of Origin
3.	No. of Inverters		4.	Model No. & Serial No
	Rated Output Voltage (AC) and Rated Input Voltage	Output(AC) Input (DC)	6.	Rated Power Output (W)
7.	Max. input voltage (DC)		8.	Max. input current (DC)
	Max. output voltage(AC)		10.	Max. output current (AC)
11.	Rated Power Frequency		12.	Max. Efficiency
	Operating temperature range		14.	Degree of Protection
D	ETAILS OF THE SOLAR	PANELS		
1.	Brand of the Panel			
2.	Country of Origin			
3.	Model No. & Serial No.		4.	Peak Power (W) /Panel
			5.	No. Of Panels
6.	Panel Efficiency		7.	PV Cell Type
	Panel Open Circuit Voltage (DC)		9.	Panel Rated Voltage (V <sub>MPP</sub> )
_	Panel Short Circuit Current (DC)		11.	Panel Rated Current (IMPP)

**Note**: Insert  $\checkmark$  to indicate that an inspection has been carried out and the results of the inspection comply with CEB requirement, or  $\chi$  to indicate that an inspection has been carried out and the results of the inspection do not comply with the CEB requirement.

Items		CEB Requirement		Outcome	
		Unit	Reference	Value	
	Synchronization w.r.t nominal voltage level	%	CEB Manual 7.2.3	+/-6% of the Nominal Voltage	
2.	Output voltage waveform		CEB Manual 7.6	50Hz sinusoidal	

•	Reconnection time of the utility supply after stable service voltage and frequency	Min.	CEB Manual 7.2.3	at least 3 minutes	
4.	Islanding Protection	s	CEB Manual 7.2.4	Within 0.5s of loss of utility power	
	Limitation of dc injection current w.r.t full rated output current at the point DR connection	%	IEEE 1547.4.3.1	<0.5%	
8.	Total Demand Distortion (TDD)	%	CEB Manual 7.7	<5% (95th percentile)	
	Individual harmonic current distortion lin current of the inverter and current of 85° Coupling				
9.	h<11 (Odd harmonic current)	%	CEB Manual 7.7	<4 % (95 <sup>th</sup> percentile)	
10.	·	%	CEB Manual 7.7	<2% (95 <sup>th</sup> percentile)	
11.	17=< h <23 (Odd harmonic current)	%	CEB Manual 7.7	<1.5% (95 <sup>th</sup> percentile)	
12.	23 =< h < 35 (Odd harmonic current)	%	CEB Manual 7.7	<0.6% (95 <sup>th</sup> percentile)	
13.	h>=35 (Odd harmonic current)	%	CEB Manual 7.7	<0.3% (95 <sup>th</sup> percentile)	
14.	h<11 (Even harmonic current)	%	CEB Manual	<1% (95 <sup>th</sup> percentile)	
15.	11=< h <17 (Even harmonic current)	%	CEB Manual	<0.5% (95 <sup>th</sup> percentile)	
16.	17=< h <23 (Even harmonic current)	%	CEB Manual 7.7	<0.375% (95 <sup>th</sup> percentile)	
17.	23 =< h < 35 (Even harmonic current)	%	CEB Manual 7.7	<0.15% (95 <sup>th</sup> percentile)	
18.	h>=35 (Even harmonic current)	%	CEB Manual 7.7	<0.075% (95 <sup>th</sup> percentile)	
-	ation of External Automatic Back Fee Manual 7.2.6 & 7.11)	d Prot	ection as Per C	EB Requirements	Yes/No
-	MENTS ON EXISTING INSTALLATION	:			
Logit	ify that the above filled particulars are		and correct		
Inspect		uue	and correct		
-		Sionat	ure	Date	
Ivame	(Capitais)	ngnat		Date	

- a. If there are more than one inverter in the installation, provide the particulars of each inverter in the same format in additional sheets.
- b. Inspected by an CEB Officer