RAJASTHAN ELECTRICITY REGULATORY COMMISSION

(Connectivity and Net Metering for Rooftop and Small Solar Grid Interactive Systems) Regulations, 2015, Dated: 26.02.2015 with amendment Dated: March, 2019

SI. No.	Description	Summary		
1.	Control Period/Review Period	 The the Sta The me The Dis Pla 	ese Regulations shall apply to the distribution li- distribution licensee availing supply from it in the of Rajasthan. e Eligible Consumer may install the rooftop tering arrangement which, shall be within the permissible rated capacit Regulations. shall be located on the consumer premises. shall interconnect and operate safely in pa licensee network. ese Regulations do not preclude the right o tribution Licensee of the State to undertake ints of 1 MWp and above capacity through alter	icensee and consumers of its area of supply in the solar system under net ty as defined under these arallel with the distribution f State Nodal Agency or Rooftop PV Solar Power native mechanisms.
2.	Cumulative Capacity	 The cumulative capacity to be allowed at a particular distribution transformer shall not exceed 30% of the capacity of the distribution transformer. The distribution licensee shall update distribution transformer level capacity available for connecting Rooftop PV Solar Power Plants under net metering arrangement on yearly basis and shall provide the information on its website as well as to the Commission. 		
3.	Eligible Consumer and Individual Project Capacity	 The maximum Rooftop PV Solar Power Plant capacity to be installed at any Eligible Consumer premises shall not be more than 80% of the sanctioned connected load/contract demand of the consumer. The capacity of Rooftop PV Solar Power Plant to be installed at the Premises of any Eligible Consumer shall be more than 1 kWp minimum and shall not be more than 1 MWp (1000 kWp). 		
4.	Interconnection with the Grid	 The interconnection of the Rooftop PV Solar Power Plant with the network of the distribution licensee shall be made as per the technical specifications and standards for connectivity provided in the Central Electricity Authority (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013, as amended from time to time. The connectivity levels at which the Rooftop PV Solar Power Plants shall be connected with the grid are as specified below: 		
		S. No.	Connected load of Eligible Consumer	Connectivity level
		1.	Upto 5 kW	240 V- single phase
		2.	Above 5 kW and upto 18.65 kW	415 V-Three phase
		3.	Above 18.65 kW and upto50 kW/kVA	415 V-Three phase

		4.	Above 50 kW/kVA	HT/EHT level
		 The ger EH cor The be sys IEC cor Eve syr gre 	e above connectivity norms are applicable nerators who seek connectivity with network of T/HT consumers may install solar power gener- nect them to their LT/HT system. e tests as per EN 50160 and as per distribution done to ensure the quality of power gene stems. C-62116 shall be followed to test islanding pro- nected photovoltaic inverters. ery time the Rooftop PV Solar Power Plant of achronized to the electricity system, it shall not ater than ±5% at the point of inter connection.	to all the solar power the distribution licensees. ators at LT/HT voltage and licensee's standards shall rated from the Solar PV evention measure for grid f the Eligible Consumer is t cause voltage fluctuation
5.	Protective Equipment	 The Rooftop PV Solar Power Plant operating in parallel with electricity system shall be equipped with the following protective functions to sense abnormal conditions on electricity system and cause the Rooftop PV Solar Power Plant to be automatically disconnected from the electricity system or to prevent the Rooftop PV Solar Power Plant from being connected to electricity system inappropriately: Over and under voltage trip functions if voltage reaches above 110% or below 80% respectively with a clearing time upto two seconds; however, appropriate licensee may prescribe a narrower range of voltage for the purpose. Over and under frequency trip functions, if frequency reaches 50.5 Hz or below 47.5 Hz with a clearing time upto 0.2 seconds; however, appropriate licensee may prescribe a narrower range of the purpose. Paralleling device of the Rooftop PV Solar Power Plant shall be capable of withstanding 220% of the nominal voltage at the interconnection point. 		
6.	Energy Accounting and Settlement	 Me und Re The ele abo wh ins For Me billi In o per and per for 	ter readings shall be taken monthly or as per der the applicable Electricity Supply Code gulations. e electricity injected by a domestic categor ctricity consumed during the billing period, such ove 100 units shall be paid by the Distribution ere a capping of average generation of 4.8 uni- talled capacity per day of the rooftop solar PV s domestic category, the net energy credits less tering achieved in the particular billing period sl ng period till credit of 100 units is achieved. case of consumers, other than domestic catego www of the approved installed capacity per da d the net surplus electricity remaining availabl iod of the respective category shall lapse and the same.	the billing cycle specified and Connected Meters y consumer exceeds the n excess injected electricity Licensee at Rs 3.14/unit ts per kW of the approved system shall be applicable. Is than 100 units under Net hall be adjusted in the next ry, the capping of 4.8 units ay shall also be applicable ie at the end of the billing no payment shall be made
7.	Solar Renewable Purchase Obligation	The quantum of electricity generated from the Rooftop PV Solar Power Plan under net metering arrangement by an Eligible Consumer, who is not defined as obligated entity, shall qualify towards compliance of Renewable Purchase Obligation (RPO) for the distribution licensee in whose area of the supply the Eligible Consumer is located.		
8.	Applicability of other charges	The Rooftop PV Solar Power Plant under net metering arrangement, whether self-owned or third party owned installed on Eligible Consumer premises, shall be exempted from banking and wheeling charges and cross subsidy surcharge.		
9.	Metering Arrangement	1. The the	e bi-directional (net meter) shall be installed at t Eligible Consumer with the network of the distr	he interconnection point of ribution licensee.

		 For the existing consumers, the consumer meter shall be replaced with the bi-directional/ net meter. Solar meter shall be installed at the solar facility after the inverter to measure the solar generation. These meters shall have the facility for downloading meter readings using Meter Reading Instrument (MRI). Check meters shall be mandatory for rooftop solar systems having capacity more than 250 kW. For installations size of less than and equal to 250 kW, the solar check meters would be optional. The technical standards for meters shall be as per the standards specified by CEA from time to time. 	
10.	Communication Facilities	The meters installed for Rooftop PV Solar Power Plants with capacity above 250 kWp shall have the communication port for exchanging real time information with Distribution Licensee.	
11.	Sharing of CDM Benefits	The CDM benefits arising from solar energy generation from the roof top PV facility shall be retained by Distribution Licensee.	
12.	Penalty	In case of failure to meet the requirements under these regulations for net metering, the solar power generator shall be liable to pay penalty as decided by the Commission from time to time.	