

# JHARKHAND STATE ELECTRICITY REGULATORY COMMISSION

## (Rooftop Solar Grid Interactive Systems and Net /Gross Metering) Regulations, 2015. Notification Dated 6<sup>th</sup> July, 2015

### DRAFT

Sl. No	Description	Summary
1	<b>Short Title, Extent and Commencement</b>	<ul style="list-style-type: none"> <li>JSERC (Rooftop Solar PV Grid Interactive Systems and Net/Gross Metering) Regulations, 2015 Dated 6<sup>th</sup> July, 2015</li> <li>Regulations shall extend to the entire State of Jharkhand;</li> <li>Regulations to come into force from the date of their publication in Official Gazette of the Government of Jharkhand and unless reviewed earlier or extended by the Commission, shall remain in force up to 31<sup>st</sup> March, 2021.</li> </ul>
2	<b>Definitions and Interpretations</b>	As per Regulations
3.	<b>Scope and Application</b>	<p>Applicable to:</p> <ul style="list-style-type: none"> <li>Distribution Licensees, the eligible consumers of the Distribution Licensees and third party owners of gross metering arrangement of rooftop solar PV system in the State of Jharkhand.</li> <li>Eligible consumer may install the rooftop solar PV system under gross or net metering arrangement which: <ul style="list-style-type: none"> <li>Shall be within the permissible rated capacity as defined under these Regulations</li> <li>Shall interconnect and operate safely with the distribution system of the Licensee.</li> <li>Shall be located in the premises of the consumer</li> </ul> </li> <li>These Regulations do not preclude the right of the State authorities to undertake rooftop solar projects of 1 MWp and above capacity through alternative mechanisms.</li> <li>Any consumer or third party owner claiming accelerated depreciation benefits on the rooftop solar PV system shall only be eligible to avail net metering arrangement under these Regulations.</li> </ul>
4	<b>General Principles</b>	<p>Subject to the limits and other terms and conditions in these regulations, eligible consumers of the distribution licensee can install rooftop solar PV system under gross/net metering arrangement.</p> <p>Provided:</p> <ul style="list-style-type: none"> <li>Third party owners having a lease/commercial agreement for the rooftop in the premises of the eligible consumers, shall also be entitled to install rooftop SPV system under gross metering arrangement with the Distribution Licensee, for such capacity which shall be cumulative of the prescribed limits of rooftop solar PV capacity for each consumer whose rooftop has been leased by the third party owner.</li> <li>Eligible consumer/third party owner availing gross metering not allowed to apply for net metering arrangement within the same premises.</li> <li>Eligible consumer availing net metering not allowed to apply for gross metering arrangement within the same premises.</li> <li>Distribution Licensee to offer gross/net metering arrangement to the consumer or third party owner, who installs grid connected rooftop solar PV system, in its area of supply on non-discriminatory and first come first serve basis.</li> <li>If the eligible consumer/third party owner installs solar rooftop system under the gross metering scheme, the entire power generated to be injected to the distribution system of the Licensee at the interconnection point.</li> <li>Eligible consumer installing solar rooftop system under the net metering scheme, shall be entitled to use the power generated at his premises. The surplus power can be injected to the distribution system of the Licensee at the interconnection point</li> </ul>

5	<b>Capacity of Rooftop Solar PV Systems (SPV)</b>	<ul style="list-style-type: none"> <li>Maximum peak capacity of the Grid connected rooftop SPV system of any eligible consumer shall not exceed 100% of the sanctioned connected load / contract demand of the consumer.</li> <li>Capacity of the Grid connected Rooftop solar PV system of any eligible consumer/ third party owner shall be more than one kilo watt peak minimum.</li> <li>Provided that the capacity of the system to be in conformity with the provisions relating to the connected load or contract demand permissible under the JSERC (Electricity Supply Code) Regulations 2005 and subsequent amendments thereof.</li> </ul>												
6.	<b>Capacity of Transformer</b>	<ul style="list-style-type: none"> <li>Distribution licensee to provide information on its website, capacity available in different transformer(s) for feeding the eligible consumer at different locations for connecting Rooftop SPV System within 3 months from the date of commencement of these regulations, and update the same within one month of the subsequent financial year under intimation to the Commission</li> <li>Provided: <ul style="list-style-type: none"> <li>Capacity to be allowed in the area fed from the distribution transformer/ any other transformer from which power is fed to the eligible consumer shall not exceed 15% or any other percentage as may be fixed by the Commission of the rated capacity of such transformer(s).</li> <li>In case of multiple applications from the consumers or third party owners fed by a transformer for participation in the scheme, the connectivity with the rooftop solar PV system shall be allowed on first come first serve basis.</li> </ul> </li> </ul>												
7.	<b>Procedure for making Application and Registration</b>	<ul style="list-style-type: none"> <li>Eligible consumer/ third party owner installing grid interactive rooftop SPV system in the premises to apply in the application form at Annexure- I of these Regulations along with the application fees as specified in Annexure-II of these Regulations.</li> <li>Distribution Licensee to make available all the forms on their website and local offices.</li> <li>For more Details Refer Regulations</li> </ul>												
8.	<b>Interconnectivity, Standards and Safety</b>	<ul style="list-style-type: none"> <li>Interconnection of the Rooftop Solar PV system with the distribution system of the Distribution Licensee shall be made as per the technical specifications and standards for connectivity as specified by the Central Electricity Authority.</li> <li>Cost of evacuation system and interconnection of the Rooftop Solar PV system with the distribution system to be borne by the eligible consumer/third party owner.</li> <li>Information related to technical &amp; interconnection standards are given at Annexure IV of the Regulations</li> <li>To be as per the provision of CEA 'Technical Standards for Connectivity of Distributed Generated Resources Regulations, 2013' and CEA (Measures relating to Safety and Electric Supply), Regulations, 2010 and JSERC (Electricity Supply Code) Regulations, 2010 as amended from time to time</li> <li>Provided that in case of a conflict between these Regulations and the regulations specified under the JSERC (Electricity Supply Code) Regulations, 2010, these Regulations shall be applicable to the eligible consumers/ third party owner</li> <li>The connectivity levels at which the Rooftop Solar PV system shall be connected with the distribution system are as specified below:</li> </ul> <table border="1" data-bbox="581 1480 1425 1663"> <thead> <tr> <th>S. No.</th> <th>Connected Load / Contract Demand of Eligible Consumer</th> <th>Connectivity Level</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Up to 5 kW</td> <td>Single phase at 230 V</td> </tr> <tr> <td>2.</td> <td>5 kW and above up to 50 kW / 63 kVA</td> <td>3 Phase, 4 wire at 415 V</td> </tr> <tr> <td>3.</td> <td>Above 50 kW and up to 1 MW</td> <td>3 Phase at 11 kV</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>Producer to be responsible for safe operation, maintenance and rectification of any defect of the solar Energy System up to the interconnection point beyond which the responsibility of safe operation, maintenance and rectification of any defect in the distribution system including the gross meter /net meter to rest with the Licensee.</li> <li>Distribution licensee shall have the right to disconnect the Solar Energy System at any time in the event of possible threat/damage to its distribution system</li> <li>Distribution licensee may call upon the eligible consumer to rectify the defect(s) within a reasonable time.</li> </ul>	S. No.	Connected Load / Contract Demand of Eligible Consumer	Connectivity Level	1.	Up to 5 kW	Single phase at 230 V	2.	5 kW and above up to 50 kW / 63 kVA	3 Phase, 4 wire at 415 V	3.	Above 50 kW and up to 1 MW	3 Phase at 11 kV
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9.	<b>Metering Arrangement</b>	<ul style="list-style-type: none"> <li>• All the meters to be located and adhere to the standards as specified in CEA (Installation and Operation of Meters) Regulations, 2006 as amended</li> <li>• All the meters installed for net metering to be of the same or of better Accuracy Class Index than the existing meter installed at the</li> <li>• Meter(s) at the consumer premises to be procured, installed and maintained by the Distribution Licensee at the cost of the eligible consumer. However if the eligible consumer wishes to procure the appropriate Meter(s), he may procure such meter(s) and present the same to the Distribution Licensee for testing and installation.</li> <li>• Installation of check meters to be mandatory for Rooftop SPV system having rated capacity more than 50 kWp.</li> <li>• Charges for testing, installation and maintenance of the check meter to be borne by the eligible consumer. Distribution Licensee to own the check meter.</li> <li>• For installations having rated capacity up to 50 kWp, consumer/ Licensee may install check meter at their own cost. Distribution Licensee to own the check meter.</li> <li>• Check meter shall be installed after the inverter of the Solar Rooftop system.</li> <li>• The specification and standards of the check meter shall be same as or better than the consumer meter installed at the premises of the eligible consumer.</li> <li>• All the meters to be jointly inspected and sealed on behalf of both the parties.</li> <li>• Meter reading taken by the licensee to form the basis of commercial settlement</li> </ul>
10.	<b>Energy Accounting And Settlement</b>	As detailed in the Regulations
11.	<b>Applicability of Other Charges</b>	SPV system under gross /net metering scheme, whether self/ third party owned installed on consumer premises to be exempted from wheeling and cross subsidy charges
12.	<b>Renewable Power Purchase Obligation (RPO)</b>	<ul style="list-style-type: none"> <li>• Quantum of electricity generated by the consumer to qualify towards compliance of RPO of the distribution licensee in whose area of supply the consumer is located.</li> <li>• In case of net metering the solar electricity generate by the eligible consumer, who is not defined as Obligated entity, to qualify towards deemed RPO for the Distribution Licensee in whose area of supply the eligible consumer is located.</li> </ul>
13.	<b>Participation under Renewable Energy Certificate (REC) Mechanism</b>	Selling of power and Issuance of REC to be as per CERC (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 and JSERC (Promotion of Green Energy through Renewable Purchase Obligation) Regulations, 2010.
14.	<b>Penalty or Compensation</b>	In case of failure of gross metering or net metering system, provisions of penalty or compensation to be as per the provisions of JSERC (Electricity Supply Code) Regulations 2005 and subsequent amendments thereof or as determined by the Commission from time to time.
15.	<b>Power to give Directions</b>	Powers vested with the Commission
16.	<b>Power to Relax</b>	Powers vested with the Commission
17.	<b>Power to Amend</b>	Powers vested with the Commission