

ASSAM ELECTRICITY REGULATORY COMMISSION

(Grid Interactive Solar PV Systems), Regulations, 2019, dated: 06.08.2019

| Sl. No. | Description | Summary |
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| 1. | Control Period | N.A. |
| 2. | Applicability | <ul style="list-style-type: none"> • These Regulations shall apply to the distribution licensee/ licensees and consumers of electricity of distribution licensee/ licensees in the State of Assam. • A Solar Grid Interactive system installed in premises may be owned by consumer or a Third party. |
| 3. | Eligibility | <p>The eligible consumer may install the solar system which,</p> <ul style="list-style-type: none"> • Shall be within the permissible rated capacity as defined under these Regulations. • Shall be located in the consumer premises. • Shall interconnect and operate safely in parallel with the distribution licensee network. |
| 4. | General Principles | <ol style="list-style-type: none"> 1. The distribution licensee may adopt the provision of either NET metering or EXIM metering arrangement in accordance with the policy directions of Government of Assam, for the consumers, who intends to install grid connected solar system, in the area of supply of the licensee on non-discriminatory and first come first serve basis. 2. The metering arrangement as adopted by the Distribution licensee shall be final and will be applicable to all consumers under that Distribution licensee. |
| 5. | Capacity of Distribution Transformer | <ol style="list-style-type: none"> 1. The available capacity of a particular distribution transformer, to be allowed for connectivity under these Regulations, shall not be less than the limits as specified by the Commission from time to time. 2. The distribution licensee shall update distribution transformer level capacity available for connecting rooftop solar systems under NET/EXIM metering arrangement on yearly basis and shall provide the information on its website as well as to the Commission. |
| 6. | Individual Project Capacity and Interconnection Voltage | <ol style="list-style-type: none"> 1. The inter-connecting voltage level of the GIS for various capacity ranges shall be as per relevant provision of the AERC (Electricity Supply Code and related matters Regulations) 2017 as amended from time to time. 2. The Solar panel capacity of Grid Interactive Solar System to be installed at any eligible consumer premises shall be between of 1 kWp to 1000 kWp restricted to: <ul style="list-style-type: none"> • For LT category consumers, the solar panel capacity of any individual consumer will be limited to 80% of the connected load/contract demand wherever interconnection with the grid is technically feasible. <ul style="list-style-type: none"> ➤ The cumulative solar panel capacity of all such LT category consumers connected to a distribution transformer will be limited to 20 % of the peak capacity of the Distribution Transformer. • For HT category consumers, the solar panel capacity of any individual consumer will be limited to 80% of the connected load/contract demand wherever interconnection with the grid is technically feasible. <ul style="list-style-type: none"> ➤ The cumulative solar panel capacity of all such HT category consumers connected to a 33/11KV Sub-station will be limited to 20 % of the peak capacity of the Sub- station. 3. There shall be no restriction on State Generating Companies or Distribution licensee installing bigger plants, subject to their |

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| | | compatibility with the system and necessary safety measures taken. |
| 7. | Interconnection with the Grid Specifications, Standards and Safety Requirements | <ol style="list-style-type: none"> 1. The distribution licensee shall ensure that: The interconnection of the solar energy system with the distribution system of the licensee conforms to the specifications and standards as provided in the Central Electricity Authority (Technical Standards for connectivity of the Distributed Generation Resources) Regulations, 2013 and Central Electricity Authority (Measures relating to Safety and Electric Supply), Regulations, 2010, amended from time to time. 2. The NET meter or EXIM meter installed shall conform to the standards, specifications and accuracy class as provided in the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, as amended from time to time. 3. The eligible consumer is to obtain the necessary clearance/approval for commissioning a Grid Interactive System, from the State Electrical Inspectorate, depending on size of solar generator and voltage of supply. |
| 8. | Energy Accounting and Settlement | <p>Net Metering Arrangement:</p> <ul style="list-style-type: none"> • For each billing period the licensee shall give the consumer a statement of accounts of electricity showing the following particulars, along with the electricity bill: <ul style="list-style-type: none"> ➤ Quantum of banked electricity carried forward from the previous billing period; ➤ Quantum of electricity injected into the distribution system by the eligible consumer; ➤ Quantum of electricity supplied by distribution licensee to the eligible consumer; ➤ Quantum of net electricity which has been billed for payment to the eligible Consumer. • In the event the electricity supplied by the distribution licensee during any billing period exceeds the electricity generated by the eligible consumer's solar system, the distribution licensee shall submit a bill for the net electricity consumption after taking into account any electricity credit balance remaining from previous billing periods. • At the end of the 'settlement period', in case there is excess electricity injection by the eligible consumer to the licensee, the licensee shall pay for the same at the Average Power Purchase Cost (APPC) of electricity as approved by the Commission. • At the beginning of each settlement period, cumulative carried over injected electricity will be reset to zero. <p>EXIM Metering Arrangement:</p> <ul style="list-style-type: none"> • The energy consumed during a month by the consumer from the grid shall be billed as per prevailing tariff applicable for the category. • The amount due to the consumer on account of injection of solar energy to the grid shall be arrived at by considering 100% of the APPC rate. This amount shall be adjusted from the monthly bill. • No payment shall be made by DISCOM for any excess energy injected from the RTS Plant to the grid beyond 90% of the energy consumed from the grid during the billing cycle. • Also at the beginning of each settlement period, cumulative carried over injected electricity will be reset to zero. |
| 9. | Solar Renewable Purchase Obligation (RPO) | <ul style="list-style-type: none"> • The quantum of electricity generated from the solar energy system of an eligible consumer under EXIM metering arrangement, shall qualify for accounting towards the Renewable Purchase Obligation (RPO) of such eligible consumer if he is an obligated entity under AERC (Renewable Purchase Obligation and its Compliance) Regulation, 2010. • The quantum of electricity generated from the solar energy system of an eligible consumer under NET metering arrangement, shall qualify for accounting towards the Renewable Purchase Obligation (RPO) of the distribution licensee under AERC (Renewable Purchase Obligation and its Compliance) Regulation, 2010. |

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| 10. | Eligibility under REC Mechanism | Eligible Consumer under EXIM metering arrangement shall be eligible to participate under REC mechanism as specified under Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 and subsequent amendments thereof. |
| 11. | Wheeling and Open Access | The grid solar system under NET/ EXIM metering arrangement, whether self-owned or third party owned installed on eligible consumer premises, shall be exempted from wheeling and cross subsidy surcharges when open access is allowed to the concerned entity. |
| 12. | Tariff for GISPV | The Commission may determine suitable tariffs for GISPV (separate Tariff for Projects with and without capital subsidy) as per guidelines provided by the MNRE, Government of India and provisions in the connected Regulations of the Commission. |
| 13. | Metering Arrangement | <ol style="list-style-type: none"> 1. NET meter/ EXIM meter shall be installed at the interconnection points of the eligible consumers with the network of the distribution licensee. 2. The meters shall be of accuracy class 0.5 or better or as per the specifications notified by the competent authority. 3. Check meter shall be installed for the solar energy system having capacity more than 20KWp and for the solar energy system of capacity less than or equal to 20 KWp, the check meter would be optional. 4. Supply and installation of meters, action on defective meter, and other matters related to meters shall be as per provisions of the AERC (Electricity Supply Code), 2017 as amended from time to time. |
| 14. | Connection of Meters and Protective Devices | The safety requirements like provision of 'islanding' in case of grid failure and isolation of battery power supply when grid is connected should have to be incorporated and diagram of actual installation indicating all components shall be conspicuously displayed in a SPV plant. |