

#### **24) Participation in Safety Activities**

Contractor must attend all scheduled Safety Meetings as would be intimated to him by HPCL Engineer in-Charge. Contractor also must ensure that all his Employees participate in Safety promotional activities organized by the HPCL.

#### **25) Police Verification**

Contractor who engages Labourer for his jobs in the HPCL must submit Police Verification of Antecedents of Laborers engaged by him.

NOTE:

- a) Every Person other than HPCL Employee or a Casual Visitor entering the HPCL would be governed by the above conditions.
- b) The term 'Supervisor' would mean any Person who oversees the works of a group of Workmen. All other Persons will be considered as 'Workmen'.
- c) HPCL Personnel will also check adherence to terms of contract. Violation of any of the above conditions of Safety would attract penal actions including termination of the Contract/Registration.
- d) Meticulous adherence to these requirements would be checked by HPCL Engineer in-Charge during & on conclusion of the work and in a Dossier of the Contractor, this performance would be given adequate weight age at the time of renewal of Registration.

#### **26) Safety Regulation for the Contractor's Manual of HPCL.**

All provision of the manual as amended from time to time is to be followed while working in the HPCL.

#### **27) CONTRACTOR JOB EQUIPMENT SAFETY ASSURANCE (SAFE WORK PRACTICES-SWP-06)**

The equipment used by contractor for doing the jobs inside HPCL premises will be checked at gate and only good equipment will be allowed entry into HPCL premises as per Safe Work Practices.

#### **28) Safety violations:**

- i. In case of frequent Safety violations for a particular contractor, necessary action such as holiday listing / delisting will be taken.
- ii. Whenever specified in the contract, contractors are required to adhere to the additional safety requirements.
- iii. All contractors shall themselves arrange weekly safety site

inspection /audit and monthly safety meetings and records should be maintained.

- iv. Contractors shall own full responsibility for any accident and injury to any of the workers or to any person or persons or property arising due to violation of safety norms by contractors even though financial penalty is not applied for such violation. Imposition of these financial penalties does not absolve contractors from any of the responsibilities as per the General Conditions of Contract, Special Conditions of Contract and Special Safety Conditions.



## Uttar Pradesh Electricity Regulatory Commission

Notification No.: UPERC/Secretary/RSPV Regulations/

Dated:

In exercise of powers conferred under section 61, 66, 86(1)(e) and 181 of the Electricity Act, 2003 and all other powers enabling in this behalf, the Uttar Pradesh Electricity Regulatory Commission hereby makes the following Regulations, namely:

### UPERC (Rooftop Solar PV Grid Interactive Systems Gross / Net Metering) Regulations, 2019 (RSPV Regulations, 2019)

#### 1. Short Title and commencement

1. These Regulations shall be called the UPERC (Rooftop Solar PV Grid Interactive Systems Gross / Net Metering) Regulations, 2019, (hereinafter referred to as RSPV Regulations, 2019).
2. These Regulations shall come into force from the date of their notification in the Official Gazette of the State and shall remain in force till ....., unless otherwise reviewed/extended.
3. These Regulations supersede the "UPERC (Rooftop Solar PV Grid Interactive Systems Gross / Net Metering) Regulations, 2015".
4. Words and expressions used in these Regulations and not defined herein but defined in the Electricity Act, 2003 (hereinafter referred to as 'the Act'), as amended from time to time, shall have the meaning as assigned to them under the Act.

#### 2. Definitions and Interpretations

In these regulations, unless the context otherwise requires,

- a) "**Accuracy class index**" shall mean the index as specified in Central Electricity Authority (Installation & Operation of Meters) Regulations 2006 and subsequent amendments thereof;
- b) "**Act**" means the Electricity Act, 2003 (36 of 2003) and subsequent amendments thereof;
- c) "**Billing cycle**" or "**Billing period**" means the period for which electricity bills shall be prepared for different categories of consumers by the Licensee.
- d) "**Commission**" means the Uttar Pradesh Electricity Regulatory Commission constituted under the Act;



- e) **“Consumer”** means any person who is supplied with electricity for his own use by a Licensee or the Government or by any other person engaged in the business of supplying electricity to the public under the Act or any other law for the time being in force and includes any person whose premises are, for the time being, connected for the purpose of receiving electricity with the works of a Distribution Licensee, the Government or such other person, as the case may be;
- f) **“Connected load”** expressed in kW, kVA or HP, refers to aggregate of the manufacturer’s rated capacities of all the energy consuming devices or apparatus connected with the Distribution licensee’s service line on the consumer’s premises which can be operated simultaneously. For the purpose of levy of any charges and for deciding the supply voltage, the connected load shall be determined as per the method prescribed in the UPERC (Electricity Supply Code) Regulations 2005 and subsequent amendments thereof;
- g) **“Contracted load or Contracted demand or Sanctioned load”** means the maximum demand in kW, kVA or HP, agreed to be supplied by the licensee and indicated in the agreement executed between the licensee and the consumer;
- h) **“Distribution Licensee” or “Licensee”** means a person granted a license under Section 14 of the Act authorizing him to operate and maintain a distribution system for supplying electricity to the consumers in his area of supply;
- i) **“Electricity Supply Code”** means the UPERC (Electricity Supply Code) Regulations 2005 and subsequent amendments thereof;
- j) **“Eligible consumer”** means a consumer of electricity in the area of supply of the Distribution Licensee, who uses or intends to use a grid connected rooftop Solar PV system installed in the consumer premises given that such systems can be self-owned or third party owned;
- k) **“Financial year” or “Year”** means the period beginning from first of April in an English calendar year and ending with the thirty first of the March of the next year;
- l) **“Gross Metering”** means the arrangement of measurement of energy in a system under which entire energy generated from rooftop solar PV system installed at eligible consumer premises is delivered to the distribution system of the Licensee;
- m) **“Inter-Connection Agreement”** means the agreement entered into for connecting rooftop Solar PV system to the distribution system;
- n) **“Interconnection point”** means the interface point of the Solar PV power generation facility with the distribution system of the Licensee. The interface point shall be the appropriate meter as per CEA (Installation and Operation of Meters), Regulations, 2006 and subsequent amendments thereof, installed at consumer’s premises or distribution substation;



- o) **“Invoice”** means either a Monthly Bill / Supplementary Bill or a Monthly Invoice/Supplementary Invoice raised by the Distribution Licensee.
- p) **“kWp”** means kilo Watt peak;
- q) **“Net metering”** means an arrangement for measurement of energy in a system under which rooftop solar PV system installed at eligible consumer premises delivers surplus electricity, if any, to the Distribution Licensee after off-setting the electricity supplied by Distribution Licensee during the applicable billing period.
- r) **“Net meter”** means an appropriate energy meter capable of recording both import & export of electricity or a pair of meters one each for recording the import and export of electricity as the case may be;
- s) **“Obligated entity”** means the entity mandated under clause (e) of subsection (1) of section 86 of the Act to fulfill the renewable purchase obligation and identified under UPERC (Promotion of Green Energy through Renewable Purchase Obligation) Regulations, 2010 and subsequent amendments thereof;
- t) **“Premises”** means rooftops or/and elevated areas on the land, building or infrastructure or part or combination thereof in respect of which a separate meter or metering arrangements have been made by the Licensee for supply of electricity;
- u) **“Rooftop solar PV system or Rooftop solar PV Plant”** means the grid interactive solar photo voltaic power system installed on the rooftops/ground mounted or open land of consumer premises that uses sunlight for direct conversion into electricity through photo voltaic technology;
- v) **“Renewable Energy Certificate (REC)”** means the certificate issued in accordance with the procedures approved by the Central Electricity Regulatory Commission;
- w) **“Renewable Energy Meter”** shall have the meaning as per definition assigned to it in the Central Electricity Authority (Installation and Operation of Meters) Amendment Regulations 2014 and subsequent amendments thereof;
- x) **“Settlement period”** means the period beginning from first of April in a calendar year and ending with the thirty first of the March of the next year.
- y) **“Tariff order”** in respect of a Licensee means the most recent order issued by the Commission for that Licensee indicating the rates to be charged by the Licensee from various categories of consumers for supply of electrical energy and services;



- z) **“Third party owner”** means a developer who is generating solar energy on a rooftop but does not own the rooftop but enters into a lease / commercial agreement with the rooftop owner. In case of gross metering arrangement owned by third party, he shall also enter into an agreement with the Distribution Licensee. However, if a consumer installs rooftop solar PV system in his premises through a third party and wishes to avail net metering facility, then only the eligible consumer shall enter into an agreement with the Licensee;

All other words and expressions used in these Regulations although not specifically defined herein above, but defined in the Act, shall have the meaning assigned to them in the Act. The other words and expressions used herein but not specifically defined in these Regulations or in the Act but defined under any law passed by the Parliament applicable to the electricity industry in the State shall have the meaning assigned to them in such law.

### **3. Scope and application**

- 3.1 These Regulations shall apply to the 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 Uttar Pradesh.
- 3.2 The eligible consumer may install the rooftop solar PV system under either gross metering arrangement or net metering arrangement which:
- a) Shall be within the permissible rated capacity as defined under these Regulations;
  - b) Shall be located in the premises of the consumer;
  - c) Shall interconnect and operate safely with the distribution system of the Licensee.
- 3.3 These Regulations do not preclude the right of the State authorities to undertake rooftop solar projects above 2MWp capacity through alternative mechanisms.
- 3.4 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.

### **4. General Principles**

- 4.1 Subject to the limits and other terms and conditions specified in these Regulations, the eligible consumers of the Distribution Licensee shall be entitled to install rooftop solar PV system under either gross metering arrangement or net metering arrangement.

Provided that third party owners who have entered into a lease or commercial agreement for the rooftop in the premises of the eligible consumers, shall also be



entitled to install rooftop solar PV 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 eligible consumer whose



rooftop has been leased by the third party owner.

Provided that third party owners who have entered into a lease or commercial agreement for the rooftop in the premises of a group of consumer, shall also be entitled to install rooftop solar PV system under Net metering arrangement with the Distribution Licensee, for such capacity which shall be cumulative of the prescribed limits of rooftop solar PV capacity for each eligible consumer of the group whose rooftop has been leased by the third party owner.

- 4.2 Provided that the eligible consumer or third party owner as the case may be availing gross metering arrangement under these Regulations shall not be allowed to apply for net metering arrangement within the same premises.
- 4.3 Provided that the eligible consumer availing net metering arrangement under these Regulations shall not be allowed to apply for gross metering arrangement within the same premises.
- 4.4 Provided that the Distribution Licensee shall offer the provision of gross metering arrangement and net metering arrangement to the eligible consumer or third party owner as the case may be, who intends to install grid connected rooftop solar PV system, in its area of supply on non-discriminatory and first come first serve basis.
- 4.5 If the eligible consumer or third party owner installs solar rooftop system under the gross metering scheme, the entire power generated from such an installation shall be injected to the distribution system of the Licensee at the interconnection point.
- 4.6 If the eligible consumer installs solar rooftop system under the net metering scheme, such eligible consumer shall be entitled to use the power generated from the rooftop solar PV system at his premises. The surplus power can be injected to the distribution system of the Licensee at the interconnection point.
- 4.7 In addition to above, to provide flexibility to rooftop solar power prosumer, taking a progressive view, the Commission is proposing provision of mutual sale and purchase of electricity through peer-to-peer transaction in a secured and reliable way with proper accounting and billing mechanism implemented with the help Block chain technology. Provided that for such arrangement prior approval of the Commission shall be required. To further take up development of peer-to-peer transaction of electricity generated through renewable sources, the Commission directs that UPPCL and UPNEDA shall put up a proposal jointly

## **5 Capacity of Rooftop PV System.**

- 5.1 The maximum peak capacity of the grid connected rooftop solar PV system to be installed by any eligible consumer shall not exceed 100% of the sanctioned load/ connected load / contracted demand of the consumer.



Provided the capacity of the grid connected rooftop solar PV system to be installed by any eligible consumer or third party owner shall not be less than 1 kWp and shall not exceed 2 MWp..

- 5.2 Provided that the capacity of the grid connected rooftop solar PV system shall be in conformity with the provisions relating to the connected load or contract demand permissible under the UPERC (Electricity Supply Code) Regulations, 2005 and subsequent amendments thereof.

## **6 Capacity of Transformer**

- 6.1 The Distribution Licensee shall provide information on its website regarding capacity available on distribution transformer(s) for feeding the eligible consumer at different locations for connecting rooftop solar PV system within three months from the date of commencement of these Regulations, and shall update the same within one month of the start of the subsequent financial year under intimation to the Commission.

- 6.2 Provided that the capacity to be allowed in the area fed from the distribution transformer (DT) or any other transformer from which power is fed to the eligible consumer is 100% of that DT or any other transformer.

Provided that if augmentation of transformer/distribution network is required, then upto total 10 kWp solar rooftop installation the consumer would not pay any system upgradation charges whereas, above this the consumer will pay at the rate of Rs 1000 per kWp as cost of augmentation of system. e.g. a consumer willing to install a 15 kW RSPV Plant shall be paying Rs 5,000 (5×1000) as RSPV cost to the utility.

- 6.3 Provided further that 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.

## **7 Procedure for Application and Registration**

- 7.1 The eligible consumer or third party owner hereinafter referred to as applicant who intends to install grid interactive rooftop solar PV system in his/her premises may apply offline otherwise online through <https://upnedasolarrooftopportal.com/> or <http://apps.uppcl.org/solar>

7.2

- 7.3 For applying offline the applicant shall apply in the application form at Annexure- I of these Regulations along with the application fees as specified in Annexure-II of these Regulations. The Distribution Licensee shall make available all the forms on their website and local offices. For simplification of the system:



- (i) Consumers shall submit the application to the Executive Engineer of the concerned Distribution Licensee along with a copy to UPNEDA officer in the district;
- (ii) UPNEDA shall take monthly progress from Distribution Licensees and submit quarterly progress to the Commission;

7.4 The Licensee shall acknowledge the receipt of the application form, register the application and shall process the application in the order of the receipt. The Licensee shall prepare a priority list having validity of one eighty (180) days on the basis of the order of such receipts. The priority list shall be prominently displayed in the local offices of the Licensee and shall also be uploaded on the website of the Licensee.

7.5 In order of priority, the Distribution Licensee shall complete the feasibility analysis for connecting the rooftop solar PV system to the distribution system within thirty (30) days from the date of receipt of the application. The feasibility shall be valid for a period of one month unless extended by the Distribution Licensee. Provided that if the Distribution Licensee determines that an interconnection study is necessary, the Distribution Licensee shall intimate feasibility or otherwise within sixty (60) days from the receipt of the completed application.

7.6 While intimating the feasibility of the connection of the rooftop solar PV system as specified in Regulation 7.3, the Distribution Licensee shall also intimate the applicant:

- (a) The details of documents to be submitted by the applicant;
- (b) Particulars of any deficiencies, if noticed, along with instructions to remove such defects.

Provided that if such deficiency is not removed within a period of thirty (30) days from date of receipt of intimation to such applicant, the application shall stand cancelled and the application fee shall be forfeited.

7.7 The Distribution Licensee shall on receipt of documents (if any) and removal of defects (if any), submitted under Regulation 7.4, inform the approval within ten (10) days from the date of receipt.

Provided that on feasibility analysis, if it is found that due to certain reasons including operational constraints it is not feasible for the Distribution Licensee to provide connectivity at all or up to the applied capacity i.e. connectivity is feasible for a reduced capacity, the Distribution Licensee shall specifically record the reasons thereof and, intimate in writing the same to the applicant(s) specifically mentioning that: the applicant has the option, to be exercised in writing, to

- (i) either accept the connectivity for the reduced capacity and approach the Distribution Licensee to process the case;



- (ii) or seek refund of its application fee either within seven (7) days of the receipt of the intimation;
- (iii) or to stay in the priority list till its validity i.e. up to one hundred and eighty (180) days under clause 7.2 of these Regulations, for re-consideration and approval in case of future availability of applied capacity at the distribution transformer level etc. within such period.

Provided that if the applicant seeks refund, the Distribution Licensee shall refund the application fee within seven (7) days from the date of receipt of intimation from the applicant in this regard. Thereafter, the Distribution Licensee shall notify the updated position of the remnant applicants in the priority list.

Provided also that in case the applicant opts to stay in the priority list and even in the validity period of priority list of one hundred and eighty (180) days the required capacity does not get available, the Distribution Licensee shall refund the application fee on its own within seven (7) days of expiry of such one hundred and eighty (180) days period;

- 7.8 On receipt of approval of Distribution Licensee under Regulation 7.5, the applicant shall apply for registration of the scheme for rooftop solar PV system by completing the registration form provided at Annexure-III of these Regulations along with the registration fees as specified in Annexure-II of these Regulations.
- 7.9 At the time of submission of Registration Form, the Distribution Licensee shall perform preliminary checks of all the documents submitted along with the Registration Form in the presence of applicant or his representative, and if found complete, shall receive the form and acknowledge its receipt.
- 7.10 The Distribution Licensee shall provide written intimation to the applicant within fifteen (15) days from the date of receipt, deficiencies or additional documentation requirement (if any)
- 7.11 The applicant shall re-submit the Registration Form, along with the requisite documents, after curing the deficiencies contained therein within thirty (30) days of receipt of such intimation.
- 7.12 The Distribution Licensee within fifteen (15) days of receipt of completed Registration form:
  - (i) register the scheme and assign a registration number if Registration Form is found complete and in order;
  - (ii) give a personal hearing to the applicant and also intimate in writing the deficiencies, found if any, in the Registration Form and/or the documents submitted by the applicant giving him a final opportunity to cure the deficiencies and its re-submission.
- 7.13 The applicant within fifteen (15) days from such intimation shall cure the deficiencies and re-submit the Registration Form along with documents to the

Distribution Licensee. If the Registration Form is found complete and in order, the Distribution Licensee shall register the scheme and assign a Registration Number to it. However, if it is observed that certain deficiencies still persist, the application for registration may be rejected.

Provided that in case the application for registration is rejected, the Distribution Licensee shall provide a written intimation to the applicant detailing reasons for rejection within fifteen (15) days of receipt of re-submitted Registration form.

Provided further that fifty (50%) of the registration fee shall be refunded to the eligible applicant within seven (7) days from issue of written intimation for rejection of application for Registration.

- 7.14 For the applicant who has applied under the gross metering scheme, the inter connection agreement provided at Annexure-V(A) of these Regulations shall be executed by the Distribution Licensee within thirty (30) days of issue of Registration number to the eligible applicant.
- 7.15 For the applicant who has applied under the net metering scheme the inter connection agreement provided at Annexure-V(B) of these Regulations shall be executed by the Distribution Licensee within thirty (30) days of issue of Registration number to the eligible applicant.
- 7.16 The applicant must execute the inter connection agreement and return it to the Distribution Licensee within thirty (30) days from the date of receipt.

## **8 Interconnection with the distribution system**

- 8.1 The 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. The cost of evacuation system and interconnection of the rooftop solar PV system with the distribution system shall be borne by the eligible consumer or third party owner, as the case may be. Information related to technical & interconnection standards are given at Annexure IV of these Regulations. The Distribution Licensee shall ensure that:
  - (i) The interconnection of the rooftop solar PV system with the distribution system conforms to the specifications, standards and provisions as provided in the Central Electricity Authority (Technical Standards for connectivity of the Distributed Generation Resources) Regulations, 2013 as amended from time to time.
  - (ii) The inter connection of the rooftop solar PV system with the distribution system of the Licensee confirms to the relevant provisions of the Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations, 2010, as amended from time to time.

(iii) The interconnection of the rooftop solar PV system with the distribution system conforms to the specifications, standards and provisions as provided in the UPERC (Grant of connectivity to intra-state Transmission System) Regulations, 2010 as amended from time to time.

Provided that in case of a conflict between these Regulations and the regulations specified under the UPERC (Grant of connectivity to intra-state Transmission System) Regulations, 2010 as amended from time to time, these Regulations shall be applicable to the eligible consumers or third party owner as the case may be.

(iv) Regulations and provisions framed under Section 53 of the Electricity Act, 2003 and subsequent amendments thereof;

8.2 The connectivity levels at which the rooftop solar PV system shall be connected with the distribution system are as specified below:

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
4	Above 1 MW and upto 2 MW	3 Phase 33 kV

8.3 The eligible consumer shall be responsible for safe operation, maintenance and rectification of any defect of the rooftop solar PV 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 as the case may be shall rest with the Distribution Licensee.

8.4 The Distribution Licensee shall have the right to disconnect the rooftop solar PV system at any time in the event of possible threat/damage, from such rooftop solar PV system to its distribution system, to prevent an accident or damage. Subject to Regulation 8.3, the Distribution Licensee may call upon the eligible consumer to rectify the defect within a reasonable time.

## **9 Metering arrangement**

9.1 All the meters shall adhere to the standards and provisions specified in CEA (Installation and Operation of Meters), Regulations, 2006 and subsequent amendments thereof.

9.2 The appropriate meter(s) shall be single phase or three phase as per requirement. All the meters to be installed shall be of the same or better Accuracy Class Index than the existing meter installed at the premises.



- 9.3 The appropriate meter(s) at the premises of the consumer shall 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.
- 9.4 The location of appropriate meter(s) shall be in accordance with the CEA (Installation and Operation of Meters), Regulations, 2006 as amendments from time to time and the UPERC (Grid Code) Regulations, 2007 as amendments from time to time.
- 9.5 The installation of check meters shall be mandatory for rooftop solar PV system having rated capacity more than 50 kWp. The charges for testing, installation and maintenance of the check meter shall be borne by the eligible consumer. The Distribution Licensee shall own the check meter.
- 9.6 For installations having rated capacity up to 50 kWp, the eligible consumer or the Distribution Licensee who so ever if desires, may install check meter at their own cost. The Distribution Licensee shall own the check meter.
- 9.7 The check meter shall be installed after the inverter of the solar rooftop system.
- 9.8 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.
- 9.9 All the meters installed shall be jointly inspected and sealed on behalf of both the parties.

Provided that the meter reading taken by the Distribution Licensee shall form the basis of commercial settlement.

## **10 Energy Accounting and Settlement**

- 10.1 Meter readings shall be taken as per the applicable cycle as provided in the UPERC (Electricity Supply Code) Regulations 2005 and subsequent amendments thereof;
- 10.2 The case of rooftop solar PV system under gross metering arrangement the Licensee shall undertake energy accounting and settlement with either the eligible consumer or the third party owner whosoever is a signatory of the interconnection agreement with the Licensee.
- 10.3 The energy accounting and settlement procedure for eligible consumers / third party owners installing and operating rooftop solar PV system under gross metering arrangement shall be as per the following procedure:
  - (i) For each billing period, the Licensee shall show the quantum of electricity injected by the rooftop solar PV system installed at the premises of the eligible consumer in the billing period.





- (ii) The Distribution Licensee shall reimburse the eligible consumer or the third party owner as the case may be for the quantum of injected electricity by the rooftop solar PV system during the billing period by way of 'Solar Injection Compensation'.

Provided that the Solar Injection Compensation to be paid by the Distribution Licensee to the eligible consumer or third party owner as the case may be shall be the weighted average tariff of Competitive Bidding projects adopted by the Commission in last Financial Year. E.g. For FY 2018-19, weighted average tariff of projects discovered through Competitive Bidding in FY 2017-18 and adopted by the Commission shall be applicable.

- (iii) Rebate and late payment surcharge on early or delayed payment of the Solar Injection Compensation as the case may be shall be levied in the same manner as per the procedure laid down by the Commission in the UPERC (Electricity Supply Code) Regulations, 2005 and subsequent amendments thereof;

Provided that such rebates/ delayed payment surcharge as the case may be shall also be payable to the third party owner in the same manner as per procedure specified for the consumer of the Licensee in the UPERC (Electricity Supply Code) Regulations, 2005 and subsequent amendments thereof;

- (iv) There shall be no deemed generation charges payable to the eligible consumer or third party owner of the solar rooftop system.
- (v) The Distribution Licensee shall be responsible for billing of the electricity injected by the rooftop solar PV system into the distribution system. The bills prepared by the distribution license shall necessarily include the following:

- a) Quantum of electricity injected into the distribution system by the rooftop solar PV system.
- b) Quantum of Solar Injection Compensation payable by the Licensee.

Provided that the billing period and due date of the bills shall be the same as that of the eligible consumer in whose premises the solar system has been installed.

Provided also that Licensee shall reimburse the eligible consumer or third party owner of the solar rooftop system as the case may be, within the due date of the electricity bill of the consumer in whose premises the rooftop solar PV system has been installed.

10.4 The energy accounting and settlement procedure for consumers installing and operating rooftop solar PV system under net metering arrangement shall be as per the following procedure:

- (i) For each billing period, the Licensee shall show the quantum of electricity injected by the rooftop solar PV system in the billing period, supplied electricity

by Distribution Licensee in the billing period, net billed electricity for payment by the consumer for that billing period and net carried over electricity to the next billing period separately;

- (ii) If the electricity injected exceeds the electricity consumed during the billing period, such excess injected electricity shall be carried forward to next billing period as electricity credit and may be utilized to net electricity injected or consumed in future billing periods but within the settlement period;
- (iii) If the electricity supplied by the Distribution Licensee during any billing period exceeds the electricity generated by the eligible consumer's rooftop solar PV system, the Distribution Licensee shall raise invoice for the net electricity consumption after taking into account any electricity credit balance remaining from previous billing periods;

Provided, in case the eligible customer is under the ambit of time of day tariff, as determined by the Commission from time to time, the electricity consumption in any time block (e.g., peak hours, off-peak hours, etc.) shall be first compensated with the electricity generation in the same time block. Any excess generation over consumption in any time block in a billing cycle shall be carried forward to the corresponding time block in the subsequent month for adjustment purpose.

Provided also that the excess electricity measured in kilo-watt hour may only be utilized to offset the consumption measured in kilo-watt hour and may not be utilized to compensate any other fee and charges imposed by the Distribution Licensee as per the instructions of Commission

Provided also at the end of each settlement period, any electricity credits, which remain unadjusted, shall be paid at a rate of Rs 2/kWh by the Distribution Licensee or as notified by the Commission from time to time.

Provide further that at the beginning of each settlement period, cumulative carried over electricity credits shall be reset to zero.

- (iv) In case of Group Net Metering, the settlement between the individual consumer in the group and the third party (if involved) will be the responsibility of the group or third party itself and shall be driven by the agreement between them. The third party aggregator shall not be charged by DISCOM any fixed charges on this account but shall be charged for imported energy as per prevailing Rules and Regulations.
- (v) There shall be no deemed generation charges payable to the eligible consumer.
- (vi) In case the applicable tariff provides for billing on kVAh basis, the net drawl or injection of energy shall also be measured in kVAh.
- (vii) When an eligible consumer leaves the system, that consumers unused electricity credits shall be paid at a rate of Rs 2/kWh by the Distribution Licensee or as notified by the Commission from time to time.



- (viii) Regardless of availability of electricity credits with the eligible consumer during any billing period, the consumer shall continue to pay applicable charges such as fixed/ demand charges, Government levy etc.
- (ix) The Distribution Licensee shall necessarily provide the following details along with the electricity bill relating to each billing period:
- a) Quantum of electricity generated from the rooftop solar PV system.
  - b) Quantum of electricity injected into the distribution system by the rooftop solar PV system.
  - c) Quantum of electricity supplied by the Distribution Licensee to the eligible consumer.
  - d) Quantum of net electricity that has been billed for payment by the eligible consumer.
  - e) Quantum of electricity credits available to the eligible consumer which is carried over from the previous billing period.
  - f) Quantum of electricity injected into the distribution system in excess of the drawl by the eligible consumer (quantum of electricity credits) which shall be carried forward to the next billing period.

10.5 In case of any dispute in billing it would be settled by the Consumer Grievance Redressal Forum and if issue still remains unresolved, it shall be settled by the Ombudsman following appropriate procedure.

## **11 Applicability of other charges**

In rooftop solar PV system under gross metering scheme / net metering scheme, whether self-owned or third party owned and installed on eligible consumer premises shall be exempted from wheeling and cross subsidy surcharge.

## **12 Solar Renewable Purchase Obligation**

12.1 In case of gross metering scheme the quantum of electricity generation by eligible consumer, who is not defined as Obligated entity, from the rooftop solar PV system shall qualify towards compliance of Renewable Purchase Obligation (RPO) for the Distribution Licensee in whose area of supply the eligible consumer is located.

12.2 In case of net metering scheme the total quantum of solar electricity generated under the net metering arrangement for eligible consumer, who is not defined as Obligated entity, shall qualify towards deemed Renewable Purchase Obligation (RPO) for the Distribution Licensee in whose area of supply the eligible consumer is located.

## **13 Eligibility to participate under Renewable Energy Certificate Mechanism**

13.1 Nothing contained in these Regulations shall apply to the Solar PV generator intending to sell power under the Renewable Energy Certificate Mechanism and he shall be free to sell power under such mechanism as per the provisions of