

## Draft Notification

Bhopal, Dated: \_\_. \_\_. \_\_\_\_

No. \_\_\_\_/MPERC /2022 - In exercise of powers conferred under Section 61(h), and Section 86(1)(e) read with sub-section (I) and clause (zd) and (zi) of sub-section (2) of Section 181 of the Electricity Act, 2003 (No. 36 of 2003) the Madhya Pradesh Electricity Regulatory Commission, hereby, proposes the following Regulations, namely: -

### **MADHYA PRADESH ELECTRICITY REGULATORY COMMISSION (GRID INTERACTIVE RENEWABLE ENERGY SYSTEMS AND RELATED MATTERS) REGULATIONS, 2022**

- 1. Short title, extent and commencement:** - (1) These Regulations may be called the Madhya Pradesh Electricity Regulatory Commission (Grid Interactive Renewable Energy systems and related matters) Regulations, 2022.
  - (2) They shall extend to the whole of the State of Madhya Pradesh.
  - (3) They shall come into force from the date of their publication in the Official Gazette of Madhya Pradesh.
- 2. Definitions:** -
  - (1) In these Regulations, unless the context otherwise requires, -
    - (a) **“Act”** means the Electricity Act, 2003 (No. 36 of 2003) and subsequent amendments thereof;
    - (b) **“Agreement”** means an agreement entered into by the Distribution licensee and the prosumer or consumer;
    - (c) **“Billing cycle”** means the period for which bills are raised;
    - (d) **“Billing period”** means the period for which regular electricity bills as specified by the Commission, are prepared for different categories of consumers by the licensee;
    - (e) **“Commission”** means the Madhya Pradesh Electricity Regulatory Commission constituted under the Act;
    - (f) **“Consumer”** means a consumer as defined in the Act;

- (g) **“Contract demand”** means the maximum load in kilowatt (‘kW’) or kilovolt ampere (‘kVA’) or Horse Power (‘HP’), as the case may be, agreed to be supplied by the Distribution Licensee and contracted by the consumer, mentioned in the agreement;
- (h) **“Distribution licensee” or “licensee”** shall mean a licensee authorized to operate and maintain a distribution system for supplying electricity to the consumers in his area of supply;
- (i) **“Electricity Supply Code”** means the Madhya Pradesh Electricity Supply Code, 2021 and subsequent amendments thereof;
- (j) **“Eligible Consumer”** means a consumer of electricity in the area of supply of the Distribution Licensee, who intends to use a renewable energy system in his premises to offset all or part or no part of the own’s electrical requirements, given that such systems can be self-owned or third party leasing such system to the consumer;
- (k) **“Financial year” or “year”** means the period beginning from first day of April as per English calendar year and ending with the thirty first day of the March of the next year;
- (l) **“Gross metering”** means an arrangement under which all energy generated by Renewable Energy Generating System installed at prosumer’s premises, is purchased by the Distribution Licensee and the Distribution Licensee raises the bills on the prosumer for his consumption at the approved Retail Supply Tariff, after giving credit for total generated electricity at the discovered tariff as per the provisions laid down in these regulations;
- (m) **“Interconnection Point for net metering arrangement”** means interface of Renewable Energy generating system with the outgoing terminal of the meter in the premises of the prosumer:

Provided that, in case prosumer is connected at the High Tension (HT) level, the “Interconnection Point” shall mean the interface of the Renewable Energy Generating System with the outgoing terminal of the Distribution Licensees’ metering equipment.

- (n) **“Interconnection Point for Gross metering arrangement”** means the interface of the Renewable Energy Generating System with the incoming terminal of the meter in the premises of the prosumer:

Provided that, in case prosumer is connected at the High Tension (HT) level, the

“Interconnection Point” shall mean the interface of the Renewable Energy Generating System with the incoming terminal of the Distribution Licensees’ metering equipment;

- (o) **“Invoice”** means 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 under which a Renewable Energy Generating System with Net Meter installed at a prosumer’s premises, delivers surplus electricity, if any, to the Distribution Licensee after setting off the quantum of electricity supplied by such Licensee during the applicable Billing Period;
- (r) **“Obligated Entity”** means the entity mandated under clause (e) of Sub-Section (1) of Section 86 of the Act to fulfill the renewable purchase obligation and which is identified under Madhya Pradesh Electricity Regulatory Commission (Cogeneration and Generation of Electricity from Renewable Sources of Energy), (Revision-II) Regulations, 2021 as amended from time to time;
- (s) **“Premises”** means any land, building or structure or part thereof or combination thereof, wherein a separate meter or metering arrangement has been made by the licensee for measurement of supply of electricity;
- (t) **“Prosumer”** means a person who consumes electricity from grid and can also inject electricity into the grid for distribution licensee, using same point of supply, as applicable in case of net metering or gross metering arrangement;
- (u) **“Renewable Energy Generation Meter”** means an energy meter used for measuring the energy generated by Renewable Energy generating system for the purpose of accounting and billing for gross metering arrangement and for the purpose of determining RPO in the net metering arrangement;
- (v) **“Renewable Energy Generating System”** means the Renewable Energy power system that uses Renewable Energy for conversion into electricity with or without energy storage and which is owned and/or operated by such prosumer and which is installed on premises owned by prosumer;

- (w) **“Retail Supply 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 to the various categories of consumers for supply of electrical energy and services.
- (x) **‘Storage’** means energy storage system utilizing methods and technologies like Solid State Batteries or any other technology, to store various forms of energy and to deliver the stored energy in the form of electricity;
- (y) **“Settlement period”** means the period at the end of which Net Metering or Gross metering arrangement’s settlement of the net credited units or the credited carried forward amount, as the case may be, between the Distribution Licensee and the prosumer takes place, generally beginning from the first day of October as per English calendar year and ending with the thirtieth day of September of the next year;

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 same meaning as assigned to them in such law.

### **3. Scope and Application:-**

1. These Regulations would apply to:

- (a) Net Metering Arrangements
- (b) Gross Metering Arrangements

2. These Regulations shall be applicable to all Grid interactive Renewable Energy generating systems.

Provided that, existing prosumers who are already availing the facility of Net Metering and have installed capacity above 500 kW shall continue to get the benefit of net metering facility under these Regulations.

### **4. General Conditions of Net Metering Arrangements and Gross Metering Arrangements:-**

1. Net Metering Arrangement or Gross Metering Arrangement, as the case may be, shall be permitted by the Distribution Licensee on a non-discriminatory and Distribution Transformer-wise ‘first come, first serve’ basis to the Eligible Consumers who intend to

install a Renewable Energy Generating System connected to the Network of such Distribution Licensee:

Provided that the inter-connection of such system with the network of the Distribution Licensee shall be undertaken in accordance with the standards and norms specified in the Central Electricity Authority (CEA) (Technical Standard for Connectivity of the Distributed Generation Resources) Regulations, 2013 or as may be specified in future.

2. The Eligible Consumer of all categories may install the Renewable Energy Generating System under the Net Metering Arrangement up to 500 kW capacity.
3. The Eligible Consumer of all categories may install the Renewable Energy Generating System under the Gross Metering Arrangement maximum up to 1 MW.
4. The prosumer can either avail facility of net metering arrangement or gross metering arrangement under these Regulations within the same premises.
5. The minimum size of the Renewable Energy Generating System that can be set up under Net Metering Arrangement and Gross Metering Arrangement would be 1 kW.
6. The capacity of the Renewable Energy Generating System to be installed at the Eligible Consumer's premises shall not exceed the Contract Demand (in kVA) of the Consumer, as applicable.
7. Eligible Consumers with pending arrears with the Distribution Licensee shall not be eligible for Net Metering Arrangement or Gross metering Arrangement under these Regulations.
8. The eligible consumers having net metering arrangement or gross metering arrangement under these regulations shall not be entitled to avail the facility of Open Access under MPERC (Terms and conditions for Intra-state open access in Madhya Pradesh), Regulations, (Revision -I), 2021.
9. Third party sale shall not be allowed.

## **5. Capacity of Distribution Transformer: -**

The Distribution Licensee shall update distribution transformer level capacity available for connecting Renewable Energy systems under net metering or gross metering arrangement, as the case may be, on yearly basis and shall provide the information on its website in the format as specified under **Annexure-3**.

Provided that the cumulative capacity allowed at a particular distribution transformer of Distribution Licensee shall not exceed **70%** of the rated capacity of the distribution transformer.

Provided that in case of HT/EHT Consumer, the installed capacity of the Renewable Energy system under Net Metering or Gross Metering Arrangement shall not be more than 70% of the rated capacity of the transformer of the distribution/transmission licensee catering supply to such consumer.

## **6. Interconnection with the Grid:-**

1. The Distribution Licensee shall ensure that the inter-connection of the Renewable Energy Generating System with its Network conforms to the specifications, standards and other provisions specified in the CEA (Technical Standard for Connectivity of the Distributed Generation Resources) Regulations, 2013, the CEA (Measures relating to Safety and Electric Supply), Regulations, 2010, and the Madhya Pradesh Electricity Grid Code 2019 (Revision II) or as may be specified in future.
2. The voltage level for interconnection with the grid shall be as specified in the Madhya Pradesh Electricity Supply Code 2021 or the voltage level at which the prosumer has been provided supply by the distribution licensee.
3. The prosumer, who installs Renewable Energy generating system, shall be responsible for the safe operation, maintenance and rectification of defect of its system up to metering arrangement beyond which, the responsibility of safe operation, maintenance and rectification of any defect in the system shall rest with the Distribution Licensee.
4. The distribution licensee shall have the right to disconnect the renewable energy system at any time in the event of threat/damage from such renewable energy system to its distribution system to prevent any accident or damage, without any notice. The

distribution licensee may call upon the prosumer to rectify the defect within a reasonable time.

5. The renewable energy system must be capable of detecting an unintended islanding condition. The system must have anti-islanding protection to prevent any feeding into the grid in case of failure of supply or grid. Applicable IEC/IEEE technical standards shall be followed to test islanding prevention measure for grid connected inverters.
6. The prosumer may install grid interactive renewable energy system with or without battery backup.

Provided that, if a prosumer opts for connectivity with storage, the inverter shall have appropriate arrangement to prevent the power from flowing into the grid in the absence of grid supply, and that an automatic as well as manual isolation switch shall also be provided.

7. Every renewable energy system shall be equipped with an automatic synchronization device.
8. The inverter shall have the features of filtering out harmonics and other distortions before injecting energy into the system of the distribution licensee. The Total Voltage Harmonic Distortion (THD) shall be within the limits specified in the Indian Electricity Grid Code (IEGC)/IEEE technical standards.

## **7. Energy Accounting and Settlement:-**

### **7A. Net Metering Arrangement:-**

1. The Distribution Licensee shall undertake meter reading of the bi-directional Meter, for all prosumers, according to the regular billing cycle.
2. For each Billing Period, the Distribution Licensee shall make the following information available on its bill to the prosumer:
  - a. Quantum of electricity injected by RE system in the grid in the billing period, showing opening and closing balance;
  - b. Quantum of electricity supplied by the distribution licensee in the billing period, showing opening and closing balance;
  - c. Quantum of Net billed electricity;

- d. Excess electricity carried forward from the last billing period;
  - e. Excess electricity carried forward to the next billing period;
  - f. Units used by the Distribution Licensee for RPO compliance;
3. The energy exported by the Renewable Energy Generating System shall be offset against the energy consumption of the prosumer from the Distribution Licensee in the following manner:
- a. If the quantum of electricity units exported exceeds the quantum imported during the Billing Period, the excess quantum of electricity units shall be carried forward to the next Billing Period as credited units of electricity;
  - b. If the quantum of electricity units imported by the prosumer during any Billing Period exceeds the quantum of electricity units exported, the Distribution Licensee shall raise its invoice for the electricity consumption after adjusting the credited units;
  - c. In such case where the prosumer is under the ambit of time-of-day tariff, 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 cumulative excess generation over and above the consumption in any other time block in a billing cycle shall be accounted as if the excess generation occurred during the off-peak time block;
  - d. Provided that the net billed units under Regulation 7(A) clause 3(a), 3(b) and 3(c) shall satisfy the guaranteed minimum consumption criteria or minimum energy charges criteria, as case may be, of the Retail Supply Tariff order for the respective category of consumer else charges determined for guaranteed minimum consumption criteria or minimum energy charges, as case may be, in Retail Supply Tariff shall be applicable.
4. The amount towards unadjusted net credited units of electricity at the end of settlement period shall be payable by the Distribution licensee by 15<sup>th</sup> November of the current



financial year, at the rate equal to the lowest tariff rate discovered in the solar / wind bidding, as the case may be, for the State of Madhya Pradesh in the preceding Financial Year. In case no rate is discovered in the preceding financial year, the lowest tariff rate discovered in the latest previous financial year shall be considered.

Provided that in case of Renewable Energy Plants other than wind or solar, the applicable rate shall be Average Power Purchase Cost as determined by the Commission for such period in its Retail Supply Tariff Order for Distribution Licensee.

Provided that, at the beginning of each Settlement Period, the cumulative quantum of injected electricity carried forward will be re-set to zero.

5. In cases where the Fixed Charges are computed based on consumed units as per Retail Supply Tariff Order, the Fixed Charges shall be computed based on electricity units imported from the Grid.
6. The Distribution licensee in addition to consumer tariff shall be eligible to raise invoice for any other charges as allowed by the Commission and any tax/duty/cess imposed by the Government on the net billed units.
7. The prosumer whose entitlement as a consumer of the licensees is ceased or he is not settling his dues to the licensee, shall not be entitled to receive due amount of the adjustment/credit till the time past dues and other charges as applicable are paid.
8. In case of any dispute in billing it shall be settled under the provisions of Madhya Pradesh Electricity Regulatory Commission (Establishment of Forum and Electricity Ombudsman for redressal of grievances of the consumers) (Revision - II) Regulations, 2021 as amended from time to time.
9. An illustrative example for energy accounting and settlement under net metering arrangement is provided as **Annexure-1**.

#### **7B Gross Metering Arrangement:-**

1. The Distribution Licensee shall undertake meter reading of both, the Renewable Energy Generation Meter and the Consumer Meter, for all prosumers, according to the regular billing cycle.
2. For each Billing Period, the Distribution Licensee shall make the following

information available on its bill to the prosumer:

- (a) Quantum of Renewable Energy generation recorded in the Renewable Energy Generation Meter, showing opening and closing balance;
  - (b) Quantum of electricity units consumed by the Consumer from licensee's system in the billing period, showing opening and closing balance;
  - (c) Amount of billing credit, if any, in the billing period, showing opening and closing balance;
  - (d) Units from Renewable Energy generation used by the Distribution Licensee for RPO compliance.
3. The Distribution Licensee shall purchase entire power generated from the renewable energy generating system at the rate equal to the lowest tariff rate discovered in the solar / wind bidding, as the case may be, for the State of Madhya Pradesh in preceding Financial Year. In case no rate is discovered in that financial year, the lowest tariff rate discovered in the latest previous financial year shall be considered.

Provided that in case of Renewable Energy Plants other than wind or solar, this rate shall be the applicable Average Power Purchase Cost as determined by the Commission for such period in its Retail Supply Tariff Order for Distribution Licensee in force.

4. The energy supplied by the distribution Licensee during the billing period shall be billed as per the tariff schedule for respective category of consumer and the terms and conditions of the Retail Supply Tariff Order read with provisions under the Madhya Pradesh Electricity Supply Code, 2021, as amended from time to time:

Provided that, the Distribution Licensee shall also be eligible to raise invoice for any other charges as allowed by the Commission and any tax/duty/cess imposed by the Government.

5. The Distribution Licensee shall prepare a net bill comprising of the amount payable by Distribution Licensee as per Regulation 7B (3) above and amount payable by prosumer as per Regulation 7B (4) above for each billing period:

Provided that, if the net bill amount for a billing period is payable by the prosumer, then the same shall be paid by the prosumer within the due date of the bill.

Provided further that, if the net bill amount for a billing period is payable by Distribution Licensee, then the same shall be carried forward in the bill for next billing period as credited amount. No interest shall be payable by Distribution Licensee on such credited carried forward amount.

6. At the end of each Settlement Period, the credited carried forward amount payable by the Distribution Licensee, shall be paid to the prosumer latest by the 15<sup>th</sup> November of the current Financial Year.
7. The prosumer whose entitlement as a consumer of the licensees is ceased or he is not settling his dues with the licensee, shall not be entitled to receive due amount of the adjustment/credit till the time past dues and other charges as applicable are paid.
8. In case of any dispute in billing it shall be settled under the provisions of the Madhya Pradesh Electricity Regulatory Commission (Establishment of Forum and Electricity Ombudsman for redressal of grievances of the consumers) (Revision — II) Regulations, 2021 as applicable.

**8. Renewable Purchase Obligation: -**

The quantum of energy injected by the prosumer from the Renewable Energy system under net metering or gross metering arrangement shall qualify towards compliance of Renewable Purchase Obligation (RPO) for the Distribution licensee.

**9. Applicability of other charges: -**

The Renewable Energy system under net metering or gross metering arrangement, as the case may be, whether self-owned or third party owned installed on prosumer premises, shall be exempted from banking charge, wheeling charges, cross subsidy surcharge and additional surcharge.

**10. Metering Arrangement: -**

1. All meters installed at the Renewable Energy Generating System shall comply with the CEA (Installation and Operation of Meters) Regulations, 2006 and subsequent amendments thereof. All meters shall have Advanced Metering Infrastructure (AMI)

facility with RS 485 (or higher) communication port or any other advance communication facility.

2. The Net Metering or Gross Metering Arrangement shall include a single-phase or a three-phase Meter, as may be required, located at the same point of inter-connection to the Distribution system within the premises of the prosumer.
3. In case of Net Metering arrangement, the existing meter in the premises of the prosumer shall be replaced by the bi-directional meter at the cost of the prosumer, in accordance with the provisions of the Madhya Pradesh Electricity Supply Code Regulations 2021 as amended from time to time.
4. In case of Gross metering arrangement, the existing consumer meter in the premises of the prosumer shall be continued for accounting and settlement for the units imported from the grid.
5. If the prosumer is within the ambit of Time-of-Day ('ToD') Tariff, the Renewable Energy Generation Meter and the consumer Meter or the bi-directional meter installed (as the case may be), shall be capable of recording ToD generation and consumption respectively.
6. The Distribution Licensee shall be responsible for the testing, installation, and maintenance of the metering equipment, and its adherence to the applicable standards and specifications.
7. The prosumer shall procure, at his own cost, a Renewable Energy Generation Meter conforming to the applicable CEA Regulations.
8. The bi-directional meter or the Consumer meter (in case of Gross metering) and the Renewable Energy Generation Meter shall be installed close to the entrance within the premises so as to make it easily accessible to the meter reader.
9. The meters installed shall be jointly inspected and sealed on behalf of both the parties and shall be tested or checked in the presence of the prosumer and representatives of the Distribution licensee. The prosumer shall be duly informed in advance to be present, if he wishes to, at the time of testing.

## 11. Processing of application and application fee: -

The distribution licensee shall facilitate the process for setting up of RE generation system at consumers' premises. In this regard, the licensee shall

- (a) Create an online portal for receiving applications from consumers for installation, interconnection and metering of distributed Renewable Energy systems or devices, at their premises, and update the same on a regular basis.
- (b) Prominently display on its website and in all its offices, the following namely: -
  - (i) detailed standardized procedure in details for installation and commissioning of roof top Renewable Energy system;
  - (ii) a single point of contact to facilitate the consumers in installation of roof top Renewable Energy system from submission of application form to commissioning;
  - (iii) address and telephone numbers of offices where filled-up application forms can be submitted;
  - (iv) Complete list of documents required to be furnished along with such applications;
  - (v) applicable charges to be deposited by the applicant;
  - (vi) empaneled list of service providers for the benefit of consumers who want to install roof top Renewable Energy system through service providers; and
  - (vii) financial incentives to the consumers, as applicable under various schemes and programmes of the Central and State Governments.
- (c) The Distribution licensee shall make the form available on its website and through hard copy at its local offices.
- (d) The consumer of the premises shall submit the application to connect its Renewable Energy system to the distribution system of the licensee in the specified form as **Annexure-2** to the Regulation along with processing fee of Rs. 1000 (Rupees One Thousand Only) at the local office of the concerned Distribution licensee or online through Web portal of Distribution Licensees.

- (e) In case, the application form is submitted in hard copy, it will be received and acknowledgement with the registration number for that application shall be generated and intimated to the applicant immediately. The hard copy shall be scanned and uploaded on the website as soon as it is received. In case, the application form is received online through web portal of the distribution licensee, the acknowledgement with the registration number shall be generated on submission of application. Application shall be deemed to be received on the date of generation of acknowledgement with registration number; and the application tracking mechanism based on the unique registration number shall be provided by the distribution licensee through web-based application or any other mode to monitor the status of processing of the application like receipt of application, site inspection, meter installation and commissioning etc.
- (f) Within 20 days, the licensee shall complete the technical feasibility study and shall communicate to the applicant through email/SMS/post, the sanction / rejection of the application, as the case may be, along with the estimated amount to be deposited and the copy of agreement to be executed by the consumer.
- (g) On receipt of full payment, the Distribution Licensee shall approve the application and intimate the same to the applicant by providing a Letter of Approval (LoA) via email/SMS/post, within thirty (30) days from the issuance of acknowledgement of the application.
- (h) During the time period from the feasibility study till the completion of installation, in case, there is any requirement of upgradation of distribution infrastructure like augmentation of service line, distribution transformer capacity, etc., for installation of the required capacity of Renewable Energy system, the same shall be carried out by the distribution licensee or consumer, as the case may be in accordance with Madhya Pradesh Electricity Regulatory Commission (Recovery of Expenses and Other Charges for providing electric line or plant used for the purpose of giving supply) Regulations, (Revision-I) 2009 and its subsequent amendments and revisions.
- (i) After installation of Renewable Energy system, the prosumer shall submit the installation certificate to the distribution licensee. The licensee shall complete

signing of connection agreement, installation of meter and successful commissioning of the Renewable Energy system within thirty days from the date of submission of the installation certificate. Formats of connection agreement and installation certificate shall be placed on web portal of the distribution licensee within the thirty days of notification of these Regulations.

- (j) Prosumer shall have the option of purchasing the requisite meter himself which shall be tested and installed by the distribution licensee.
- (k) The timelines as specified above in these Regulations shall be adhered to by the distribution licensee. In case of delay, the licensee may take approval from the Commission in specific cases along with justification for the same.
- (l) In case of any delay on the part of distribution licensee without any just cause, the Licensee shall be liable to pay compensation to the consumer at a rate of Rs. 500 (Rupees five hundred only) per day for each day of default.
- (m) The distribution licensee shall pass on the financial incentives to the prosumers, as may be provided under various schemes and programs of the Central and State Governments.
- (n) In case of any billing dispute, the prosumer may approach to the Electricity Consumer Grievance Redressal Forum of the concerned Distribution licensee.

## **12. Penalty or Compensation**

In case of failure to meet the timelines prescribed under these Regulations, the distribution licensee shall be liable to pay compensation to the consumer as specified under Regulation 11 (l) above.

## **13. Connection Agreement**

The Distribution Licensee and prosumer shall enter into a Net Metering Connection Agreement or Gross Metering Connection Agreement, as the case may be, after approval of connectivity of the Renewable Energy Generating System with the distribution Network by the distribution licensee but before the start of actual generation from the System.

**14. Power to give directions: -**

The Commission may from time to time issue such directions and orders as considered appropriate for the implementation of these Regulations.

**15. Power to relax: -**

The Commission may by general or special order, for reasons to be recorded in writing, and after giving an opportunity of hearing to the parties likely to be affected may relax any of the provisions of these Regulations on its own motion or on a petition filed before it by an interested person.

**16. Power to amend: -**

The Commission may from time to time add, vary, alter, suspend, modify, amend or repeal any provisions of these Regulations.

**17. Repealed and Savings**

1. The Regulations namely “Madhya Pradesh Electricity Regulatory Commission (Grid Connected Net Metering Regulations) 2015 and its all amendments thereto, are hereby superseded.
2. Nothing in these Regulations shall be deemed to limit or otherwise affect the inherent power of the Commission to make such Orders as may be necessary to meet the ends of justice or to prevent abuse of the process of the Commission.
3. Nothing in these Regulations shall bar the Commission from adopting in conformity with the provisions of the Electricity Act, 2003 (36 of 2003) a procedure, which is at variance with any of the provisions of these Regulations, if the Commission, in view of the special circumstances of a matter or class of matters and for reasons to be recorded in writing, deems it necessary or expedient for dealing with such a matter or class of matters.
4. Nothing in these Regulations shall, expressly or impliedly, bar the Commission dealing with any matter or exercising any power under the Electricity Act, 2003 (36 of 2003) for which no Regulations have been framed, and the Commission may deal



with such matters, powers and functions in a manner it thinks fit.

**By order of the Commission**

Secretary

**Illustration for Energy Accounting and Settlement under Net Metering Arrangement  
LT Category Prosumers**

The following illustration is for Urban LT Domestic Category prosumer with the following Tariff Schedule as per Retail Supply Tariff Order for FY 2021-22:

**LV 1.2****(i) Energy Charge and Fixed Charge – For metered connection**

Monthly Consumption Slab (Units)	Energy Charge with telescopic benefit (paise per unit) Urban/ Rural areas	Monthly Fixed Charge (Rs.)	
		Urban Areas	Rural Areas
Up to 50 units	413	64 per connection	50 per connection
51 to 150 Units	505	109 per connection	90 per connection
151 to 300 Units	645	24 for each 0.1 kW load	21 for each 0.1 kW load
Above 300 Units	665	25 for each 0.1 kW load	24 for each 0.1 kW load

**Minimum Energy Charges: Rs. 70 per connection per month as minimum charges towards energy charges are applicable for above categories.**

**Note:**

- (1) The fixed charges shall be levied considering every 15 units of consumption per month or part thereof equal to 0.1 kW of load. **Example:** If consumption during the month is 125 units, then the fixed charges shall be levied for 0.9 kW. In case the consumption is 350 units then the fixed charges shall be levied for 2.4 kW.

**Assumption:**

- 1. Renewable Energy System Installed: 5 kW**
- 2. Average Solar generation per day: 4 units/ kW**

**Energy Accounting and settlement as per Regulation 7A of the MPERC (Grid Interactive Roof Top Renewable Energy system and its related matters) Regulations, 2022**

**a. Import of electricity from Grid is more than Export of electricity generated from RE System**

S.No.	Information to be shown on bill	Values	Remarks
1.	Quantum of electricity injected by RE system in the grid in the billing period	150 Units	Total Units generated by RE system = 600 units
2.	Quantum of electricity supplied by the distribution licensee in the billing period, including opening and closing	450 Units	

S.No.	Information to be shown on bill	Values	Remarks
	balance		
3.	<b>Quantum of Net billed electricity, for which payment is to be made by the prosumer</b>	<b>300 Units</b>	<b>(2)-(1)-(4) i.e., Import &gt; Export and no credited units are available from previous billing</b>
4.	Excess electricity carried forward from the last billing period	0 Units	
5.	Excess electricity carried forward to the next billing period	0 Units	
6.	Renewable Energy Units used by Distribution Licensee for RPO compliance	150 Units	In line with Regulation 8,

Therefore,

	<b>Energy Charges to be paid by Prosumer</b>	<i>Slab</i>	<i>Rate (Paise per unit)</i>	<i>Billed Units</i>	<i>Amount (Rs.)</i>
7	1. To be considered on Net billed Units = <b>300 Units</b> (s.no.3 above), (Net billed units are above the minimum energy charges criteria as per Retail Supply Tariff.)	<i>Up to 50 units</i>	413	50	<b>206.50</b>
		<i>51 to 150 Units</i>	505	100	<b>505.00</b>
		<i>151 to 300 Units</i>	645	150	<b>967.50</b>
		<i>Above 300 Units</i>	665		
		<b>Total Energy Charges (Rs.)</b>			
8	<b>Fixed Charges to be paid by Prosumer</b> {To be considered on Imported Units from Grid = 450 Units (s.no.2 above)}	<b>450 Units @ Rs. 25 for each 0.1 kW load i.e., for 3kW</b>			<b>Rs. 750.00</b>
9	<b>Other charges as applicable to the Prosumer (viz. FCA/Tax/Cess etc.)</b> {To be considered on Net billed units = 300 Units (s.no.3 above)}				<b>Rs.100.00 (say)</b>
10	<b>TOTAL BILL PAYABLE BY PROSUMER (11 = 7+8+9)</b>				<b>Rs. 2529.00</b>

**b. Export of electricity generated from RE System is more than electricity imported from Grid**

S.No.	Information to be shown on bill	Values	Remarks
1.	Quantum of electricity injected by RE system in the grid in the billing period	450 Units	Total Units generated by RE system = 600 units
2.	Quantum of electricity supplied by the distribution licensee in the billing period, including opening and closing balance	300 Units	
3.	<b>Quantum of Net billed electricity, for which payment is to be made by the prosumer</b>	<b>0 Units</b>	<b>(2)-(1)-(4)</b> <b>Since Export &gt; Import, the excess units are carried forward to next billing cycle. However, guaranteed minimum energy charges would be payable by the prosumer on the Net billed units as per criteria in Retail Supply Tariff.</b>
4.	Excess electricity carried forward from the last billing period	0 Units	
5.	Excess electricity carried forward to the next billing period	150 Units	(1)-(2)-(4)
6.	Renewable Energy Units used by Distribution Licensee for RPO compliance	450 Units	In line with Regulation 8,

**Therefore,**

7.	<b>Energy Charges to be paid by Prosumer</b> {To be considered on Net billed Units = 0 Units (s.no.3 above)}	<b>Slab</b>	<b>Rate (Paise per unit)</b>	<b>Rs. 70.00</b> (As Exported Units > Imported Units excess units would be carried forward to next billing cycle. However, minimum energy charges would be payable by the prosumer on the Net billed units)
		Up to 50 units	413	
		51 to 150 Units	505	
		151 to 300 Units	645	
		Above 300 Units	665	
8.	<b>Fixed Charges to be paid by Prosumer</b> {To be considered on Imported Units from Grid = 300 Units (s.no.2 above)}	<b>300 Units @ 25 for each 0.1 kW load i.e., for 2kW</b>		<b>Rs. 500.00</b>
9.	<b>Other charges as applicable to the Prosumer (viz. FCA/Tax/Cess etc.)</b> {To be considered on Net Billed units = 0 Units (s.no.3 above)}			<b>0.00</b>
10.	<b>TOTAL BILL PAYABLE BY PROSUMER (11 = 7+ 8+9</b>			<b>Rs. 570.00</b>

**Format for application for a net metering connection**

To

The Executive Engineer,  
Distribution licensee  
(Name of the Office)

I herewith apply for a renewable energy net-metering connection at the existing service connection and for the renewable energy plant of which details are given below:

<b>S.No.</b>	<b>Particulars</b>	
1.	Name of applicant	
2	Address of applicant	
3	Service connection number	
4	Telephone/Mobile number (s)	
5	Email ID	
6	Plant capacity (in kilo Watts)	
7	Whether the system has automatic isolation protection (Y/N)	
8	Has a separate renewable energy generation meter been installed (Y/N)	
9	Expected date of commissioning of the renewable energy system	
10	Details of test certificates of the plant	

Date:

Signature of applicant

**Acknowledgement**

Received an application for a net metering connection from

Name of applicant:

Service Connection number:

Plant capacity:

Application registration number:

Date of receipt:

**Name and Signature of Officer**  
**Designation.....**

**Distribution Transformer-wise capacity****Details(To be updated on yearly basis)**

Details as on \_\_\_\_\_

<b>Transformer Code</b>	<b>Location of Transformer</b>	<b>Name Plate Capacity (kVA)</b>	<b>Peak Load during last Financial Year (kVA)</b>	<b>Peak Load during last Quarter</b>	<b>Cumulative capacity of connected RE Generating System (kW/kVA)</b>