

## **Notified on 23.10.2015**

**Bhopal, Dated: 14.10.15**

No. 1854/MPERC /2015 - In exercise of powers conferred by Section 61(h), 66 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, makes the following Regulations relating to Grid Connected Net Metering after considering and incorporating, the objections and suggestions received from various stakeholders in respect of proposed draft regulations published previously as required by sub-section (3) of Section 181 of the said Act, namely :-

### **MADHYA PRADESH ELECTRICITY REGULATORY COMMISSION (Grid connected Net Metering) REGULATIONS, 2015**

- 1. Short title, extent and commencement:-** (1) These Regulations may be called the Madhya Pradesh Electricity Regulatory Commission (Grid connected Net Metering) Regulations, 2015 (G - 39 of 2015).
- (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 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 any person who is supplied 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;
- (g) **“Contracted load”** or “contract demand” or “sanctioned load” means the maximum demand in kW, kVA or BHP, 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 Madhya Pradesh Electricity Supply Code, 2013 and subsequent amendments thereof;
- (j) **“Eligible Consumer”** means a consumer of electricity in the area of supply of the Distribution Licensee, who uses a renewable energy system installed in the consumer's premises to offset part or all of the consumer's own electrical requirements, given that such systems can be self-owned or third party owned;
- (k) **“Financial year”** or **“year”** or **“Settlement Period”** 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) **“Interconnection point”** means the interface of renewable energy generation facility system with the network of distribution licensee;
- (m) **“Invoice”** means a Monthly Bill / Supplementary bill or a Monthly invoice/Supplementary invoice raised by the distribution licensee;
- (n) **“kWp”** means kilo Watt peak;
- (o) **“Net metering”** means an arrangement under which renewable energy system installed at eligible consumer's premises delivers surplus electricity, if any, to the Distribution Licensee

after off-setting the electricity supplied by the Distribution Licensee during the applicable billing period;

- (p) **“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 which is identified under Regulations;
- (q) **“Premises”** means any land, building or structure or part thereof or combination thereof for which a separate meter or metering arrangements has been made by the licensee for measurement of net supply of electricity;
- (r) **“Renewable Energy Certificate (REC)”** means the certificate issued in accordance with the procedures approved by the Central Electricity Regulatory Commission;
- (s) **“Renewable Energy Meter”** means a meter used for accounting and billing of electricity supplied to and from the consumer but excluding those covered under interface meters;
- (t) **“Renewable Energy System”** means the system to generate electricity from such source(s) which are recognized as renewable energy source(s) by the Ministry of New and Renewable Energy, Government of India or any other agency as may be notified by the Government / Commission;
- (u) **“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.

- (2) 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**

The eligible consumer may install the renewable energy system under net metering arrangement which,

- a) Shall be up to the permissible individual rated capacity of 112 kW at LT;
- b) Shall be located in the consumer premises or common facility area in case of multi storied buildings; and

- c) Shall interconnect and operate safely with the Distribution Licensee network conforming to the relevant provisions of the Central Electricity Authority (Measures relating to safety and electric supply) Regulations, 2010 as amended from time to time.

#### **4. General Principles**

The Distribution licensee shall offer the provision of net metering arrangement to the consumer, who intends to install grid connected renewable energy system, in its area of supply on non-discriminatory and first come first serve basis, subject to operational constraints.

Provided that the Distribution licensee may offer the provision of net metering to the eligible consumers for such period that the cumulative capacity (in MW) does not exceed the target capacity of 10 MW:

Provided further that the consumer is eligible to install the grid connected renewable energy system of the rated capacity as specified under these Regulations;

Provided also that the expenses, if any, incurred on the infrastructure development for such purposes are required to be borne by the consumer:

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

The Distribution Licensee shall update distribution transformer level capacity available for connecting renewable energy systems under net metering arrangement on yearly basis and shall provide the information on its website.

Provided that the cumulative capacity allowed at a particular distribution transformer shall not exceed 15% of the peak capacity of the distribution transformer.

#### **6. Eligible Consumer and individual project capacity :-** The capacity of Renewable Energy System to be installed at any premises shall be subject to the following conditions:-

- (i) The installed capacity shall be aligned with the provisions of the Madhya Pradesh Electricity Supply Code, 2013, for permitting consumer connections.

(ii) Third party sale shall not be allowed.

## **7. Interconnection with the Grid**

The interconnection of the renewable energy system with the network of the Distribution licensee shall be made as per the technical standards for connectivity of distributed generated resources Regulations to be notified by the Central Electricity Authority. Until such time, the interconnection of the renewable energy system of a particular capacity, with the network of the Distribution licensee, shall be made on the contracted load and/or respective voltage level applicable to the consumer as per the provisions of Madhya Pradesh Electricity Supply Code, 2013. All the cost related to augmentation shall be borne by the consumer.

Provided that the system fulfils the technical requirements for grid interconnection with the network of the distribution licensee.

## **8 Energy Accounting and Settlement :-**

- (1) For each billing period, the licensee shall show the quantum of injected electricity by eligible consumer in the billing period, quantum of electricity supplied by the Distribution licensee in the billing period, net billed quantum of electricity for payment by the consumer for said billing period and net carried over quantum of electricity to the next billing period separately;
- (2) In the event of the quantum of electricity injected exceeds the electricity consumed during the billing period, such injected excess electricity shall be carried forward to the next billing period as electricity credit and may be utilized to calculate net electricity injected or consumed in future billing periods.
- (3) In such case where the electricity supplied by the Distribution licensee during any billing period exceeds the electricity generated by the eligible consumer's renewable energy 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.

- (4) In such case where the eligible consumer 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 cumulated excess generation over 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.
- (5) 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 the Commission.
- (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.
- (7) At the end of the each financial year, any net energy credit which remains unadjusted shall be paid by the Distribution licensee to the eligible consumers at the average pooled cost of power purchase as mentioned in the retail supply tariff order of that financial year.
- (8) The consumer whose entitlement as a consumer of the licensees is ceased or receiving the amount of he is not setting his dues to the licensee, shall not be entitled to receive due amount of the adjustment/credit.
- (9) 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 - I) Regulations, 2009 as amended from time to time.

**9. Renewable Purchase Obligation :-**

The quantum of electricity consumed by the eligible consumer, who is not defined as obligated entity, from the renewable energy system under net metering arrangement shall qualify towards compliance of Renewable Purchase Obligation (RPO) for the Distribution licensee.

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

The renewable energy system under net metering arrangement, whether self-owned or third party owned installed on eligible consumer premises, shall be exempted from banking, wheeling and cross subsidy.

**11. Eligibility to Participate under Renewable Energy Certificate Mechanism :-**

The issuance of renewable energy certificate shall be as per the eligibility criteria 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;

**12. Metering Arrangement :-**

- (1) The metering system under net-metering arrangement for renewable energy the installation and operation of meters shall be as per the CEA Regulations of installation & operation of Meters;
- (2) Until such time bi-directional meters (net meters) are installed for renewable energy systems under net-metering arrangement, the net meters which may be used shall be of accuracy class 1.0 or better or as per the specifications notified by the CEA. These meters shall be Meter Reading instrument (MRI) compliant or wireless equipment for recording meter readings:

Provided that if bills are prepared on the basis of MRI downloads or if meter reading is taken on the basis of remote meter-reading and the consumer wishes to have a record of the reading taken, he shall be allowed so by the licensee.

Provided further that the cost of new/additional meter (s) including installation charges thereof shall be borne by the eligible consumer and these are also installed by the Distribution licensee. In case the meter becomes defective or burnt, the same shall be replaced by the Distribution licensee at the cost of the consumer.

- (3) The meters installed shall be jointly inspected and sealed on behalf of both the parties and shall be tested or checked only in the presence of the consumer and representatives of the Distribution licensee:

Provided that the eligible consumer shall follow the metering specifications, and provisions for placement of meter as provided by the Distribution licensee from time to time:

Provided further that in case the eligible consumer is under the ambit of time of day tariff, meters compliant of time of day consumption/generation shall be employed.

- (4) The meter reading taken by the Distribution licensee shall be the base of commercial settlement.

### **13. Penalty or Compensation**

In case of failure of net metering system, the provisions of penalty or compensation shall be as per the provisions of the Madhya Pradesh Electricity Regulatory Commission (Distribution Performance Standards) (Revision-II) Regulations, 2012 as amended from time to time.

### **14. Processing of application and applicable fee:-**

- (a) 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 annexed to the Regulation along with registration fee of Rs. 1000 (non-refundable) at the local office of the concerned Distribution licensee. The Distribution licensee shall make the form available on its website and at its local offices.
- (b) On receipt of application complete in all respect along with registration fee and necessary documents, the Distribution licensee shall acknowledge the application.
- (c) Within 21 days, the Distribution licensee shall prepare the estimate and communicate to the consumer the sanction/rejection of the application, as the case may be, along with amount, if any, to be deposited by the consumer and the copy of agreement to be executed by the consumer.



- (d) On receipt of full payment and the agreement duly executed, the Distribution licensee shall finalise the agreement and take up the work and provide connectivity to the consumer within 7 days if no extension/augmentation work is involved and within 60 days in other cases.
- (e) In case of any dispute, the consumer may approach to the Electricity Consumer Grievance Redressal Forum of the concerned Distribution licensee.

**15. 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.

**16. 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.

**17. Power to amend:-**

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

**By order of the Commission**

**Shailendra Saxena, Commission Secretary**

**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:

S.No.	Particulars	
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.....**