

MADHYA PRADESH ELECTRICITY REGULATORY COMMISSION

**(Cogeneration and Generation of Electricity from Renewable Sources of Energy) (Revision-I),
Regulations 2010, Dated-09/11/2010 with amendments dated 30.06.2011, 09.04.2012, 25.11.2014,
08.05.2015, 28.09.2015, 31.08.2017, 15.11.2017, 17.12.2019**

Sl. No	Description	Summary																																																								
1.	Renewable Purchase Obligation	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Financial Year</th> <th colspan="3" style="text-align: center;">Cogeneration and other Renewable Sources of Energy</th> </tr> <tr> <th></th> <th style="text-align: center;">Solar (%)</th> <th style="text-align: center;">Non Solar (%)</th> <th style="text-align: center;">Total (%)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2010-11</td> <td style="text-align: center;">-</td> <td style="text-align: center;">0.80</td> <td style="text-align: center;">0.80</td> </tr> <tr> <td style="text-align: center;">2011-12</td> <td style="text-align: center;">0.40</td> <td style="text-align: center;">2.10</td> <td style="text-align: center;">2.50</td> </tr> <tr> <td style="text-align: center;">2012-13</td> <td style="text-align: center;">0.60</td> <td style="text-align: center;">3.40</td> <td style="text-align: center;">4.00</td> </tr> <tr> <td style="text-align: center;">2013-14</td> <td style="text-align: center;">0.80</td> <td style="text-align: center;">4.70</td> <td style="text-align: center;">5.50</td> </tr> <tr> <td style="text-align: center;">2014-15</td> <td style="text-align: center;">1.00</td> <td style="text-align: center;">6.00</td> <td style="text-align: center;">7.00</td> </tr> <tr> <td style="text-align: center;">2015-16</td> <td style="text-align: center;">1.00</td> <td style="text-align: center;">6.00</td> <td style="text-align: center;">7.00</td> </tr> <tr> <td style="text-align: center;">2016-17</td> <td style="text-align: center;">1.25</td> <td style="text-align: center;">6.50</td> <td style="text-align: center;">7.75</td> </tr> <tr> <td style="text-align: center;">2017-18</td> <td style="text-align: center;">1.50</td> <td style="text-align: center;">7.00</td> <td style="text-align: center;">8.50</td> </tr> <tr> <td style="text-align: center;">2018-19</td> <td style="text-align: center;">1.75</td> <td style="text-align: center;">7.25</td> <td style="text-align: center;">9.25</td> </tr> <tr> <td style="text-align: center;">2019-20</td> <td style="text-align: center;">4.00</td> <td style="text-align: center;">8.00</td> <td style="text-align: center;">12.00</td> </tr> <tr> <td style="text-align: center;">2020-21</td> <td style="text-align: center;">6.00</td> <td style="text-align: center;">8.50</td> <td style="text-align: center;">14.50</td> </tr> <tr> <td style="text-align: center;">2021-22</td> <td style="text-align: center;">8.00</td> <td style="text-align: center;">9.00</td> <td style="text-align: center;">17.00</td> </tr> </tbody> </table>	Financial Year	Cogeneration and other Renewable Sources of Energy				Solar (%)	Non Solar (%)	Total (%)	2010-11	-	0.80	0.80	2011-12	0.40	2.10	2.50	2012-13	0.60	3.40	4.00	2013-14	0.80	4.70	5.50	2014-15	1.00	6.00	7.00	2015-16	1.00	6.00	7.00	2016-17	1.25	6.50	7.75	2017-18	1.50	7.00	8.50	2018-19	1.75	7.25	9.25	2019-20	4.00	8.00	12.00	2020-21	6.00	8.50	14.50	2021-22	8.00	9.00	17.00
		Financial Year	Cogeneration and other Renewable Sources of Energy																																																							
			Solar (%)	Non Solar (%)	Total (%)																																																					
		2010-11	-	0.80	0.80																																																					
		2011-12	0.40	2.10	2.50																																																					
		2012-13	0.60	3.40	4.00																																																					
		2013-14	0.80	4.70	5.50																																																					
		2014-15	1.00	6.00	7.00																																																					
		2015-16	1.00	6.00	7.00																																																					
		2016-17	1.25	6.50	7.75																																																					
		2017-18	1.50	7.00	8.50																																																					
		2018-19	1.75	7.25	9.25																																																					
		2019-20	4.00	8.00	12.00																																																					
2020-21	6.00	8.50	14.50																																																							
2021-22	8.00	9.00	17.00																																																							
2.	Connectivity and Metering	<ol style="list-style-type: none"> 1. The Generation and Co-generation, except Roof-top Solar PV and Bio-gas Sources, shall be connected to the State Grid at a Voltage level of 132/33/11 kV based on technical suitability determined by the Licensee. 2. For Roof-top Solar PV sources and bio-gas Plants, connectivity may be allowed at Low Voltage or 11/33 kV as considered technically suitable by the Distribution Licensee. 3. As per incentive policy for encouraging generation of power in Madhya Pradesh through Non-conventional Energy sources (solar, wind, bio-energy, etc.), the power evacuation will be an integral part of the project and all expenses for power evacuation facility shall be borne by the Developer. 4. The meter reading will be carried out by the respective Distribution Licensee/Transmission Licensee, as the case may be. For the purpose of admitting the bills for payment, MP Tradeco shall accept the certificate given by the Officer designated by the concerned Discom/Transmission Licensee in respect of units injected into the Grid. 																																																								
3.	Scheduling of Co-generation and Renewable Sources of Energy	<ol style="list-style-type: none"> 1. The Co-generation and generation from Renewable Sources of Energy shall be subjected to "scheduling" in terms of the provisions of Indian Electricity Grid Code 2010, as amended from time to time. 2. The generation of Energy from Wind, Solar, Small Hydro and Municipal Solid Waste shall not be subjected to "Merit Order Despatch Principals". 3. (3) Other Renewable Energy generating/cogeneration of plants with capacity up to 2MW shall not be subjected to "Merit Order Despatch Principals". 																																																								
4.	Drawing power during shut down by Generator	The Generator/Co-generation would be entitled to draw power exclusively for its own use from the Distribution Licensees' network for synchronization of plant with the grid or during shutdown period of its plant and or during such other emergencies. The power availed during synchronization of plant with the grid and shall be billed for the period and at the rate as per the retail supply tariff order under tariff order schedule. In other cases, it would be billed at the rate applicable to temporary connection under HT Industry category.																																																								

5.	Banking	<ol style="list-style-type: none"> 1. The facility for Banking of the entire electric energy generated in each Financial Year from Non-conventional Energy Sources will be provided if a portion of banked power still remains un-adjusted at the end of Financial Year, then such remaining power would be construed as power purchased and the payment for the same will be made by the Distribution Licensee / MP Power Management Co Ltd at the rate equal to the lowest tariff rate discovered in the solar/ wind bidding, as the case may be, for the state of MP in that year. In case no rate is discovered in that year, the available lowest tariff rate discovered in the latest previous year shall be considered. In case of any Renewable Energy based Captive Generating Plant other than solar or wind, 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 Licensees in force. 2. The Captive RE Generation Plant shall also be eligible to sale its surplus power to any 3rd party subject to provisions of these Regulations provided that: <ul style="list-style-type: none"> • The expenses, if any, incurred on the infrastructure development for evacuation and supply of power are required to be borne by the owner of Captive RE Generation Plant or the 3rd Party consumer as the case may be. • The 3rd party consumer is not availing facility of net metering in its premises in accordance with the Madhya Pradesh Electricity Regulatory Commission (Grid connected Net Metering) Regulations, 2015 as amended from time to time.
6.	Wheeling/Cross-Subsidy Charges	Wheeling charges, Cross subsidy surcharge and additional surcharge on the Wheeling charges and such other charges shall be applicable at the rate decided by the commission from time to time and its retail supply tariff order.
7.	Energy Accounting and Settlement	<p>The Renewable Energy based Captive Generating Plant, whether installed in the premises of its captive user(s) or outside the premises of its captive user(s) shall be eligible to sale its surplus power to the Distribution Licensee.</p> <p>The Captive RE Generation Plant shall also be eligible to sale its surplus power to any 3rd party.</p>
8.	Forecasting, Scheduling, Energy Accounting and Settlement	<ol style="list-style-type: none"> 1. For Renewable Energy based Captive Generating Plant forecasting, scheduling and deviation settlement, energy accounting and settlement shall be done in 15 minute time-block wise as per MPERC (Forecasting, Scheduling, Deviation Settlement Mechanism and related matters of Wind and Solar Generating stations) Regulations, 2018 subject to limits stipulated in the aforesaid Regulations as amended time to time. 2. Surplus power injected by a Solar and Wind Renewable Energy based Captive Generating Plant shall be metered for each 15 minutes time block and surplus power shall be computed. Settlement of such surplus power shall be made at the end of every billing period at the rate equal to the lowest tariff rate discovered in the solar/ wind bidding in that year and for which the Distribution licensee/ M.P. Power Management Co. Ltd. has entered into a Power Purchase Agreement with the solar or wind generating plants, as the case may be. 3. If a RE captive consumer with Renewable Energy based Captive Generating Plant imports electricity from grid, settlement of such energy shall be made at the tariff applicable for such captive consumer in Retail Supply Tariff Order for Distribution Licensees in force and settlement of such energy shall also be governed by the provisions of respective agreement executed by RE captive users with the concerned Distribution Licensee in the state of M.P. 4. If a RE captive consumer with Renewable Energy based Captive Generating Plant imports electricity from grid, settlement of such energy shall be made at the tariff applicable for such captive consumer in Retail Supply Tariff Order for Distribution Licensees in force and settlement of such energy shall also be governed by the provisions of respective agreement executed by RE captive users with the concerned Distribution Licensee in the state of M.P. 5. It shall be the obligation of the Renewable Energy based Captive Generating Plant to ensure that the requirement of the captive generating plant as provided in the Electricity Rule, 2005 and subsequent amendments are maintained.
9.	Renewable Purchase Obligation	The quantum of electricity consumed by consumer from its Renewable Energy based Captive Generating Plant shall first qualify towards compliance of its own Renewable Purchase Obligation (RPO). However, if the self-consumption of the captive consumer is over and above its Renewable Purchase Obligation (RPO), such quantum of electricity over and above RPO shall be considered towards compliance of Renewable Purchase Obligation of the Distribution Licensee.

10.	Applicable Fee	The Renewable Energy based Captive Generating Plants intending to avail the facility made available under the provisions of this Amendment shall have to submit an application and register with Distribution Licensee in the specified form as provided by the Distribution Licensee along with non-refundable registration fee of Rs. 1000 (one thousand only) at the office designated by the concerned Distribution Licensee.
11.	Certificates	<ul style="list-style-type: none"> • Certificates issued under the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issue of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 as the valid instrument for full or partial discharge of the mandatory obligations set out in these Regulations for the Obligated Entities to buy electricity from Renewable Energy Sources. • The certificates purchased by the Obligated Entities from the Power Exchange in terms of the Regulations of the Central Commission shall be deposited by the Obligated Entities with the Commission within 15 days of the purchase.
12.	Effect of Default	<p>In the event the Obligated Entities do not fulfill the mandate of the obligation to purchase energy from Renewable Energy Sources as provided in these Regulations during any Financial Year and also do not purchase the certificates from the Power Exchange, the Commission may:</p> <ul style="list-style-type: none"> • direct the Obligated Entity to deposit into a separate Fund, to be maintained by such Obligated Entity, such amount as the Commission may determine as required for purchase of Certificates to the extent of the estimated obligation on the basis of the shortfall in units of RPO and the Forbearance Price of the Certificates which shall be utilized, as may be directed by the Commission, partly for purchase of the certificates and partly for development of Transmission infrastructure for evacuation of power from Generating Stations based on Renewable Energy Sources. • to the extent of the shortfall in the fulfillment of the Obligations, the Commission may empower an Officer of the State Nodal Agency to procure from the Power Exchange the required number of Certificates out of amount in the Fund.
13.	Open Access for Co-generation	Any electricity generated from Co-generation and Renewable Sources of Energy shall have Open Access under the Electricity Act. 2003, subject to the availability of adequate capacity of Transmission/Distribution licensee system within the state.