



**JOINT ELECTRICITY REGULATORY COMMISSION
FOR MANIPUR AND MIZORAM
AIZAWL : MIZORAM**

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Statement of Reason

(To amend the JERC for the States of Manipur & Mizoram (Renewable Purchase Obligation and its Compliance) Regulations, 2010)

In compliance with the provisions under Section 61, 66, 86(1)(e) and 181 of the electricity Act, 2003, the Commission has notified the JERC for the States of Manipur & Mizoram (Renewable Purchase Obligation and its Compliance) Regulations, 2010 vide notification No.H.13011/5/09-JERC, dated 05.05.2010 which was published in the Official Gazettes of Manipur and Mizoram.

Pursuant to the notification of the Ministry of Power, Govt. of India, RPO target has been fixed by making separate orders by the Commission from time to time.

The Ministry of Power, Govt. of India, through its order No.09/13/2021-RCM, dated 22.09.2022 has specified separate Wind RPO, HPO and other RPO within the overall RPO target for the FY 2022-23 to FY 2029-30.

In view of the above, the Commission has decided to adopt the RPO target as specified by the Ministry of Power through its order No.09/13/2021-RCM, dated 22.07.2022 and dated 19.09.2022 for the FY 2022-23 to FY 2029-30, including introduction of a separate hydro purchase obligation (HPO) as recommended previously by the ministry through its order No.23/03/2016-R&R, dated 29.01.2021.

In line with the directions from MoP, the Commission proposes to specify separate Wind RPO, HPO and other RPO within the overall target. Provided that Wind RPO shall be met through energy produced from wind power projects commissioned after 31st March, 2022; HPO shall be met only by energy produced from Large Hydro Projects (including pump storage plants) commissioned after 8th March, 20119; other RPO target may be met by energy produced from any RE power project not qualifying for meeting Wind RPO and HPO. Further, as the directives of the MoP, the Commission proposes to specify separate Energy Storage Obligation for the energy consumed from solar / wind along with / through storage. The Energy Storage obligation to the extent of energy stored from RE sources shall be considered as part of fulfilment of the total RPO.

Recently, the Ministry of Power notified the Electricity (Promoting Renewable Energy Through Green Energy Open Access) Rules, 2022 on 06.06.2022, wherein the obligated entity, may elect to generate, purchase and consume renewable energy to meet their Renewable Purchase obligation. The appropriate provisions related to RPO as specified in the Green Energy Open Access Rules, 2022 has been proposed to be incorporated in this First Amendment to RPO Regulations also.

In view of the above developments, and as the Commission is required to make regulations consistent with the Order of the Ministry of Power, Govt. of India, the Act and the Rules, it is proposed to amend the JERC M&M (Renewable Purchase Obligations and its Compliance) Regulations, 2010 as per this draft notification.

Sd/- Secretary



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DRAFT NOTIFICATION

Dated Aizawl, the 26th September, 2022

No.H.13011/5/22-JERC: In exercise of powers conferred under Section 61, 66, 86(1)(e) read with Section 181(2)(zd) of the Electricity Act, 2003 and all other powers enabling the Commission in this behalf, the Joint Electricity Regulatory Commission for Manipur & Mizoram hereby amends the Joint Electricity Regulatory Commission for Manipur & Mizoram (Renewable Purchase Obligation and its Compliance) Regulations, 2010 (herein referred to as "Principal Regulations"), namely;

1. Short title, commencement and extent:-

- 1.1 These Regulations may be called the Joint Electricity Regulatory Commission for Manipur & Mizoram (Renewable Purchase Obligation and its Compliance)(First Amendment) Regulations, 2022.
- 1.2 These Regulations shall come into force on the date of their publication in the official Gazettes of Manipur and Mizoram.
- 1.3 These Regulations shall extend to the whole States of Manipur & Mizoram and shall apply in relation to all matters falling within the jurisdiction of the Commission.

2. Amendments in Regulation 2 (Definition) of the Principal Regulations:-

- 2.1 Substitution of Regulation II (1)(d):
Regulation II (1)(d) of the Principal Regulations shall be substituted by the following:
"**Certificate**" means the renewable energy certificates issued by the Central Agency in accordance with the procedures prescribed by it and under the provisions specified in the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 **and the subsequent amendments thereof;**

2.2 Insertion of a new Regulation II (1) (ha):

After Regulation II (1)(h) of the Principal Regulation '(ha)' shall be added hereunder:

'(ha) "Green energy" means the electrical energy from renewable sources of energy including hydro and storage (if the storage uses renewable energy) or any other technology as may be notified by the Government of India from time to time and shall also include any mechanism that utilizes green energy to replace fossil fuels including production of green hydrogen or green ammonia;'

2.3 Insertion of a new Regulation II (1)(oa):

After Regulation II (1)(o) of the Principal Regulation '(oa)' shall be added hereunder:

'(oa) "Prosumer" means a person who consumes electricity from the grid and can also inject electricity into the grid for distribution licensees, using same point of supply;'

3. Amendments in Regulation 2 of the Principal Regulations:-

3.1 Regulation 2 (1) of the Principal Regulations shall be substituted by (1)(a) and (1)(b) as follows:

'(1)(a) Minimum quantum of electricity to be purchased by the licensees from renewable energy sources, expressed as percentage of their total consumption of electricity in a year shall be as specified below:

Financial Year	Wind RPO	Hydro Power Obligation (HPO)	Other RPO	Total RPO
2022-23	0.81%	0.35%	23.44%	24.61%
2023-24	1.60%	0.66%	24.81%	27.08%
2024-25	2.46%	1.08%	26.37%	29.91%
2025-26	3.36%	1.48%	28.17%	33.01%
2026-27	4.29%	1.80%	29.86%	35.95%
2027-28	5.23%	2.15%	31.43%	38.81%
2028-29	6.16%	2.51%	32.69%	41.36%
2029-30	6.94%	2.82%	33.57%	43.33%

- (a) *Wind RPO shall be met only by energy produced from Wind Power Projects (WPPS), commissioned after 31 March, 2022 and the wind energy consumed over and above 7% from WPPs commissioned till 31st March, 2022.*
- (b) *HPO shall be met only by energy produced from Hydro Power Projects (HPPs) (including Pump Storage Plants (PSPs) and Small Hydro Projects (SHPs)) commissioned after 8th March, 2019.*
- (c) *Other RPO may be met by energy produced from any RE based / green energy based power project not mentioned in (a) and (b) above.*

Provided that, HPO obligation may be met out of the free power being provided to the state from HPPs (including PSPs and SHPs), commissioned after 8th March, 2019 as per agreement at that point of time excluding the contribution towards Local Area Development Fund (LADF), if consumed within the state/DISCOM. Free power (not that contributed for Local Area Development) shall be eligible for HPO benefit. Energy from all other Hydro Power Projects including free power from Hydro Power Projects commissioned before 8th March, 2019 will be considered as part of 'RPO' under category of 'Other RPO'.

In case, the free power mentioned above is insufficient to meet the HPO obligations, then the obligated entity would have to buy the additional hydro power to meet its HPO obligation or may have to buy corresponding amount of Renewable Energy Certificate corresponding to Hydro Power.

Provided that Hydro power imported from outside India shall not be considered for meeting HPO.

Further, in case of 'Other RPO', any shortfall remaining in achievement of 'Other RPO' category in a particular year can be met with either excess energy consumed from wind power projects, commissioned after 31st march, 2022 beyond 'Wind RPO' for that year or with, excess energy consumed from eligible HPPs (including PSPs and SHPs), commissioned after 8th March, 2019 beyond 'HPO' for that year or partly from both. Further any shortfall in achievement of 'Wind RPO' in a particular year can be met with excess energy consumed from Hydro Power Plants, which is in excess of 'HPO' for that year and vice versa.

Provided that Renewable Energy purchased through bundled power shall qualify for Renewable Purchase Obligation compliance to the extent of Renewable Energy content in bundled power.

Provided further that Distribution Licensee shall be eligible to utilize the renewable energy generated from prosumers supplying power to such Licensee under the Gross metering, Net billing and Net Metering arrangement as the case may be towards meeting the RPO compliance, provided that the prosumer should not be a obligated entity under these Regulations.

Provided further that Distribution Licensee shall compulsorily procure 100% power generated from waste to Energy plants in the state.

Provided that Commission may review minimum percentage of compliance specified in the above Regulations depending upon prevailing situation in succeeding years.

(1)(b) The following percentage of total energy consumed shall be solar / wind energy along with / through storage:

Financial Year	Storage (on Energy basis)
2023- 24	1.0%
2024-25	1.5%
2025-26	2.0%
2026-27	2.5%
2027-28	3.0%
2028-29	3.5%
2029-30	4.0%

Provided that the energy Storage Obligation shall be calculated in energy terms as a percentage of total consumption of electricity and shall be treated as fulfilled only when at least 85% of total energy stored in the Energy Storage System (ESS), on an annual basis, is procured from renewable energy sources.

Provided that, the Energy Storage Obligation to the extent of energy stored from RE source shall be considered as a part of fulfillment of total RPO. The Energy Storage Obligation shall be reviewed periodically considering the commissioning / operation of PSP capacity, to accommodate any new promising commercially viable Energy Storage technologies and also reduction in cost of Battery Energy Storage System (BESS).'

3.2 Substitution of Clause 2 (5):

Regulation 2 (5) of the principal Regulations shall be substituted by the following:

'There shall be a uniform renewable purchase obligation, on all obligated entities in area of a distribution licensee. Any obligated entity, may elect to generate, purchase and consume renewable energy as per their requirements by one or more of the following methods:-

(A) Own Generation from renewable energy sources:- There shall not be any capacity limit for installation of power plants from renewable energy sources, by obligated entities for their own consumption and such plants may be set up at any location in India and power shall be transmitted by using open access:

Provided that the generating plant may be set up by the entity itself or by a developer with which the entity enters into a power purchase agreement.

(B) By procuring Renewable Energy through Open Access from any Developer either directly or through a trading licensee or through power markets.

Explanation: (1) Developer means the generating company who generate electrical energy from renewable sources of energy. (2) Trading Licensee means a person who has been granted a licensee by appropriate commission, for purchase of electricity for resale thereof.

(C) By purchasing or renewable energy certificates in accordance with the applicable regulations.

(D) Purchase of green hydrogen or green ammonia; - the obligated entity can also meet their Renewable Purchase Obligation by purchasing green hydrogen or green ammonia and the quantum of such green hydrogen or green ammonia would be computed by considering the equivalence to the green hydrogen or green ammonia produced from one MWh of electricity from the renewable sources or its multiples and norms in this regard as notified by the CERC.'

4. Amendments in Regulation 4 (State Agency) of the Principal Regulations:-

4.1 Substitution of Regulation 4 (3):

Regulation 4 (3) of the Principal Regulations shall be substituted by the following:

'(3) The State Agency shall submit half yearly status with respect to compliance of RPO by the obligated entities to the Commission within 15th of the ensuing month after completion of 1st and 2nd half of Financial year in the

format as annexed as Annexure-I to these Regulations and may suggest appropriate action to the Commission if required for compliance of the renewable purchase obligation.'

By Order of the Commission

Sd/- RICHARD ZOTHANKIMA
Secretary

ANNEXURE-I

Half yearly Formats to be submitted by State Agency to the Commission:

Name of the Obligated Entity:				
S. N.	Particulars	Formula	Unit	Value
1.	Energy sale excluding inter-state sale		MU	
2.	Total RPO Target		%	
3.	Total Renewable Energy Purchase requirement	1*2	MU	
4.	HPO Target		%	
5.	Hydro Power Purchase requirement	1*4	MU	
6.	WPO Target		%	
7.	Wind Power Purchase requirement	1*6	MU	
8.	Other RPO Target		%	
9.	Other RE Purchase requirement	1*8	MU	
10.	Energy Storage Purchase Obligation target		%	
11.	Energy Storage Purchase Requirement	1*10	MU	
12.	Actual Hydro Power Purchase		MU	
13.	Surplus / Deficit in Hydro Power Purchase (+/-)	12-5	MU	
14.	HPO Achievement	12/1	%	
15.	Wind Power Purchase		MU	
16.	Surplus / Deficit in Wind Power Purchase (+/-)	15-7	MU	
17.	WPO Achievement	15/1	%	
18.	Other RE purchase	a+b+c+d+e	MU	
a.	Co-generation		MU	
b.	Small Hydro		MU	
c.	Biomass		MU	
d.	Solar		MU	
e.	Others		MU	
19.	Surplus / Deficit in Other RE purchase (+/-)	18-9	MU	
20.	Other RPO Achievement	18/1	%	
21.	Energy Storage Purchase		MU	
22.	Surplus / Deficit in Energy storage purchase (+/-)	21-11	MU	
23.	Energy Storage Purchase achievement	21/1	%	
24.	Total Renewable Energy Purchase Achievement	12+15+18+21	MU	
25.	Total RPO Achievement	24/1	%	