RERC

राजस्थान विद्युत विनियामक आयोग

विद्युत विनियामक भवन, स्टेट मोटर गेरेज के पास, सहकार मार्ग,जयपुर–302001
दुरभाष : ई.पी.बी.एक्स 0141–2741299, फैक्स :0141–2741018
ई–मेल रू rercjpr@yahoo.co.in Website: www.rerc.rajasthan.gov.in

सार्वजनिक सूचना

विद्युत अधिनियम, 2003 की धारा 86 (1)(ई) सहपठित धारा 181 एवं अन्य सभी प्रावधान जो इस संदर्भ में इसे सामर्थ्य प्रदान करते हैं, के अंतर्गत राजस्थान विद्युत विनियामक आयोग द्वारा प्रारूप विनियम बनाये गये है। इनको अंतिम रूप देने से पूर्व आयोग द्वारा सभी इच्छुक व्यक्तियों से सुझाव/टिप्पणियां आमंत्रित की जाती हैं:

राजस्थान विद्युत विनियामक आयोग (अक्षय ऊर्जा क्रय बाध्यता) विनियम, 2023.।

एतद्द्वारा उपरोक्त वर्णित प्रारूप विनियमो की सूचना जारी कर इच्छुक व्यक्तियों से सुझाव/टिप्पणियाँ आमन्त्रित किये जाते हैं.। प्रारूप विनियम मय समर्थन विवरण की प्रतिलिपी आयोग के प्राप्तकर्ता अधिकारी के पास उपलब्ध है जिसे रू 100 का नकद भुगतान कर प्राप्त किया जा सकता है। प्रस्तावित विनियम मय सर्मथक विवरण आयोग की वैबसाईट www.rerc.rajasthan.gov.in पर भी उपलब्ध हैं।

यदि कोई व्यक्ति सुझाव/टिप्पणियाँ देना चाहे तो आयोग के प्राप्तकर्ता अधिकारी को दिनांक 31.01.2023 तक या इससे पूर्व छः प्रतियो में प्राप्त हो जानी चाहिए।

सचिव

(Not to be published)

सचिव

RERC

Rajasthan Electricity Regulatory Commission

Vidyut Viniyamak Bhawan, Near State Motor Garage,Sahakar Marg, Jaipur-302001
Phone: 0141-2741299, 2740067, Fax: 0141-2741018, E-mail: rercjpr@yahoo.co.in
website: www.rerc.rajasthan.gov.in

PUBLIC NOTICE

In exercise of powers conferred under Section 86(1)(e) read with Section 181 of the Electricity Act, 2003, and all other powers enabling it in this behalf, the Rajasthan Electricity Regulatory Commission having framed the following Draft Regulations, invites suggestions/comments from the interested persons before finalizing them.

'RERC (Renewable Purchase Obligation) Regulations, 2023'

Notice is hereby issued inviting comments/suggestions on the above Draft Regulations from interested persons. The copy of the Draft Regulations may be obtained from the Receiving Officer of the Commission on payment of Rs. 100/-. The Draft Regulations are also available on Commission's website www.rerc.rajasthan.gov.in.

The comments/suggestions if any should reach the Receiving Officer of the Commission in six copies on or before 31.01.2023

Secretary

(Not to be published)

(H. Khurana)
Secretary

RAJASTHAN ELECTRICITY REGULATORY COMMISSION, JAIPUR

NOTIFICATION (DRAFT)

January xx xx 2023

No. RERC/Secy/Reg/ XXXX

In exercise of the powers conferred by section 86(1) (e) read with section 181 of the Electricity Act, 2003 (Act 36 of 2003) after previous publication, the Rajasthan Electricity Regulatory Commission makes the following Regulations, namely:

1. Short title and commencement:

(i). These regulations will be called the Rajasthan Electricity Regulatory Commission (Renewable Purchase Obligation) Regulations, 2023 and shall come into force from 01.04.2024 after their publication in the Official Gazette.

(ii). For the period prior to 01.04.2024, the Renewable Energy Obligation as specified in RERC (Renewable Energy Obligation) Regulation, 2007 & other relevant Regulations as amended from time to time, shall remain applicable.

2. Definitions:

In these regulations unless the context otherwise requires;

i. "Act "means the Electricity Act, 2003 (36 of 2003), including amendments thereto;
ii. "Commission" means the Rajasthan Electricity Regulatory Commission;
iii. Captive power plants or "CPP" shall have the same meaning as assigned in RERC (CPP) Regulations 2010 as amended from time to time.
iv. Renewable Energy or "RE" is the energy generated from the Renewable Energy Sources ;
v. "Renewable Energy Sources" means renewable source of energy such as water, wind, sunlight, biomass, bagasse, municipal solid waste and other such sources as approved by the MNRE from time to time and shall include cogeneration ;
vi. All other words & expressions appearing in these regulations and not defined in these Regulations shall bear the same meaning assigned to them in the following order:
    (a) RERC (Terms and Conditions for Determination of Tariff from Renewable Energy Sources) Regulations, 2020 as amended from time to time
    (b) The RERC (CPP) Regulations, 2010 as amended from time to time.
    (c) The Rajasthan Electricity Regulatory Commission (Terms and Conditions for Open Access) Regulations, 2016 as amended from time to time.

(d) RERC (Renewable Energy Certificate and Renewable Purchase Obligation Compliance Framework) Regulations, 2010 as amended from time to time.

(e) The Electricity Act, 2003 and as amended time to time.

3. Applicability:

These Regulations will be applicable to the following -

i. Distribution licensee including deemed licensee;

ii. Open Access (OA) consumer;

iii. Captive Power Plant (CPP) of installed capacity 1 MW and above.

4. The minimum Renewable Purchase Obligations for the obligated entities shall be as under:

(1) Distribution Licensee including deemed licensee:

S.No.	Year	Wind RPO	HPO	Other RPO	Total RPO
1	2024-25	2.46%	1.08%	26.37%	29.91%
2	2025-26	3.36%	1.48%	28.17%	33.01%
3	2026-27	4.29%	1.80%	29.86%	35.95%
4	2027-28	5.23%	2.15%	31.43%	38.81%
5	2028-29	6.16%	2.51%	32.69%	41.36%
6	2029-30	6.94%	2.82%	33.57%	43.33%

Provided that Wind RPO Shall be met by energy produced from Wind Power Projects (WPPs) commissioned after 31.03.2022 and the wind energy consumed over and above 7% from WPPs commissioned till 31.03.2022. Hydro power Purchase Obligation (HPO) shall be met only by energy produced from Hydro Power Projects (Including PSPs and Small Hydro Pumps (SHPs)), commissioned after 8th March 2019. Other RPO may be met by energy produced from any RE based /green energy based power project not mentioned in Wind RPO and HPO.

Provided further that from FY 2024-25 onwards, the energy from all Hydro Power Projects (HPPs) will be considered as part of RPO. The HPO trajectory, as per above table will continue to prevail for LHPs commissioned after 8th March 2019. Energy from all other HPPs including free power from HPPs commissioned before 08.03.2019 will be considered as part of 'RPO' under category of 'other RPO'.

Provided also that RPO shall be calculated in energy terms as a percentage of total consumption of electricity.

Provided also that HPO obligation of the State/Discom could be met out of the free power being provided to the State from Hydro Power Projects (Including PSPs and Small Hydro Pumps (SHPs)), commissioned after 08.03.2019 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.

Provided also that 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 also that the Renewable Energy Certificate mechanism corresponding to Hydro Power/Other RE Power to facilitate compliance of HPO/Other RE Power obligation shall be in accordance with mechanism specified by Central Electricity Regulatory Commission (CERC).

Provided also that the HPO trajectory shall be trued up on an annual basis depending on the revised commissioning schedule of Hydro projects.

Provided also that 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 Hydro Power Projects (Including PSPs and Small Hydro Pumps (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 also that Hydro Power Purchase Obligation (HPO) shall be met from the power procured from eligible large hydro power projects including pump storage projects having capacity more than 25 MW (LHPs) commissioned on and after 08.03.2019 and up to 31.03.2024 in respect of 70% of the total generated capacity for a period of 12 years from the date of commissioning. Free power to be provided as per the agreement with the State Government and that provided for Local Area Development Fund (LADF), shall not be included within this limit of 70% of the total generated capacity.

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

(2) CPP & OA Consumers with 1 MW and above:

The RPO for the CPP & OA Consumers with 1 MW and above shall be as under:-

S.No.	Year	Total RPO
1	2024-25	29.91%
2	2025-26	33.01%
3	2026-27	35.95%
4	2027-28	38.81%
5	2028-29	41.36%
6	2029-30	43.33%

Provided that for CPPs commissioned before 1.04.2016, RPO shall be at the level as mandated by the Commission for the year 2015- 16. For CPPs commissioned from 1.04.2016 onwards, the RPO level as mandated by the Commission for the year of commissioning of the CPP shall be applicable.

Provided further that in case of any augmentation in the capacity, the RPO for augmented capacity shall be the RPO applicable for the year in which the CPP has been augmented.

Provided also that in case, for meeting the RPO obligation, CPP has surplus power than its consumption requirement, such a CPP may sell its surplus power to the DISCOMs under the prevailing arrangements, if any, or in the power exchange.

(3) Energy Storage Obligation (ESO):

For the Distribution Licensee including the deemed licensee the following percentage of total energy consumed shall be solar/wind energy along with/through storage:

S.No.	FY	Storage (on Energy basis)
1	2024-25	1.5%
2	2025-26	2.0%
3	2026-27	2.5%
4	2027-28	3.0%
5	2028-29	3.5%
6	2029-30	4.0%

Provided that 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 further that the Energy Storage Obligation to the extent of energy stored from RE source shall be considered as a part of fulfilment of total RPO.

Provided also that the Energy Storage Obligation shall be reviewed periodically, through a separate order, considering the commissioning/ operation of PSP capacity, to accommodate any new promising commercially viable Energy Storage technologies and also change in cost of Battery Energy Storage System (BESS).

5. Compliance of RPO

Compliance of RPO target including penalty for non-compliance thereof shall be governed by the provisions of the Electricity Act , 2003 and the Regulations made by the Commission in this regard i.e. RERC (Renewable Energy Certificate and Renewable Purchase Obligation Compliance Framework) Regulations, 2010 as amended from time to time.

6. Power to remove difficulties:

If any difficulty arises in giving effect to the provisions of these Regulations, the Commission may either suo-motu or on a petition, by general or specific order, make such provisions not inconsistent with the provisions of the Act as may appear to be necessary for removing the difficulty.

7. Power to Relaxation:

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 an application made before it by interested person(s).

8. Power to amend:

The Commission may, at any time, vary, alter, modify or amend any provisions of these Regulations.

By Order of the Commission

Secretary

RAJASTHAN ELECTRICITY REGULATORY COMMISSION,JAIPUR

Draft Rajasthan Electricity Regulatory Commission (Renewable Purchase Obligation) Regulations, 2023.

Explanatory Memorandum

1. Commission in exercise of its power conferred under the Section 86 (1) (e) read with Section 181 of the Electricity Act, 2003 framed the RERC (Renewable Energy Obligation) Regulations, 2007 which was published in the Official Gazette on 23.03.2007.

2. In exercise of power conferred under Section 3(3) of the Electricity Act, 2003, the Central Government notified the revised Tariff Policy on dated 28.01.2016.

3. Para 6.4(1) of the Policy provides that pursuant to provisions of Section 86(1) (e) of the Act, the Appropriate Commission shall fix a minimum percentage of the total consumption of electricity in the area of a distribution licensee for purchase of energy from renewable energy sources, taking into account availability of such resources and its impact on retail tariffs. Cost of purchase of renewable energy shall be taken into account while determining tariff by SERCs. Long-term growth trajectory of Renewable Purchase Obligations (RPOs) will be prescribed by the Ministry of Power in consultation with MNRE.

4. The Commission vide its Seventh Amendment in the RERC (Renewable Energy Obligation) Regulations, 2007 (published in Official Gazette on 14.12.2021) has specified the Renewable Energy Obligation targets up to FY 2023-24 for the Discoms as under:

S.No.	Year	Obligation expressed as percentage of energy consumption (%) excluding consumption met from hydro sources of power.				
		Non-solar			Solar	Total
		Wind	Biomass	HPO		
4	2021-22	8.90%	0.90%	0.18%	8.50%	18.48%
5	2022-23	9.10%	1.00%	0.35%	9.50%	19.95%
6	2023-24	9.40%	1.10%	0.66%	10.50%	21.66%

5. To recommend Renewable Purchase Obligation (RPO) trajectory beyond 2021-22, a Joint-Committee under the Co-chairmanship of Secretary, Ministry of Power and Secretary, Ministry of New and Renewable Energy, was constituted on 17.12.2020. Based on the recommendations of the Joint Committee and further discussions with MNRE, Ministry of Power (MOP), vide its order F.No. 09/13/2021-RCM dated 22.07.2022 has issued the following Renewable Purchase Obligation (RPO) Trajectory from 2022-23 and till 2029-30.

Year	Wind RPO	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%

6. In addition, the above MoP order further prescribes the following percentage of total energy consumed shall be solar/wind energy along with/ through storage,

F.Y.	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%

7. MoP vide its corrigendum dated 19.09.2022 to the above order dated 22.07.2022 inter-alia further prescribed that as the Wind Power Projects (WPPs) currently require significant amount of investment when compared to other RE technologies, benefit should be given to the states, who has commissioned or tied up with WPPs in the recent past. Accordingly, the share of wind in non-solar RPO (as defined in GoI order dated 29.01.2021) and which was in excess of 7% as on 31.03.2022, has been considered for inclusion towards Wind RPO.
8. The Commission has already specified the RPO targets up to FY 2023-24. The compliance of the above RPO/ ESO (Energy Storage Obligation) targets prescribed by MoP vide order dated 22.07.2022 cannot be implemented immediately as the Ministry has altered the categories/evaluation procedure of the RPO targets. For example earlier, the solar component in the total RPO target was separately specified but in order dated 22.07.2022 it is included in the other RPO category. Also, Biomass component was there in the non-solar RPO category earlier but now no such dispensation is there. In light of the above, an appropriate preparedness is required by the Discoms & other obligated entities to meet out these targets. In view of this, the Commission considers it appropriate to adopt the RPO/ ESO prescribed by MoP and specify the RPO/ ESO targets w.e.f., 2024-25 to 2029-30.

9. In view of the above, Commission intends to specify the RPO trajectory beyond the FY 2023-24 along with ESO. Accordingly, RERC (Renewable

Purchase Obligation) Regulations, 2023 have been prepared and comments/ suggestions are invited from the interested persons on the proposed Regulations.

****