

**BEFORE THE HONORABLE GUJARAT ELECTRICITY REGULATORY  
COMMISSION AT GANDHINAGAR**

Case No.

Filing No.

**IN THE MATTER OF** Petition under GERC (Procurement of Energy from Renewable Sources) Regulations, 2010 and amendments thereto for revision in Renewable Power Purchase Obligation (RPO) in case of four subsidiary Distribution Companies of GUVNL for FY 2020-21.

**PETITIONER** Gujarat Urja Vikas Nigam Limited  
Sardar Patel Vidyut Bhavan  
Race Course  
Vadodara - 390 007

AND

**CO-PETITIONERS**

1. Madhya Gujarat Vij Company Ltd (MGVCL) Vadodara
2. Uttar Gujarat Vij Company Ltd (UGVCL) Mehsana
3. Paschim Gujarat Vij Company Ltd (PGVCL) Rajkot
4. Dakshin Gujarat Vij Company Ltd (DGVCL) Surat

**MOST RESPECTFULLY SHOWETH**

**1.0 PREAMBLE**

1.1 The erstwhile Gujarat Electricity Board has been unbundled into seven functional entities under the Gujarat Electricity Industry Reorganization and Comprehensive Transfer Scheme, 2003 notified under the Gujarat Electricity Industry (Reorganization and Regulation) Act 2003. The activities of generation, transmission, distribution, bulk power purchase and supply undertaken by erstwhile Gujarat Electricity Board (GEB) has been entrusted to separate seven functional entities. The generation activity is assigned to Gujarat State Electricity Corporation Ltd (GSECL), the transmission activity is assigned to Gujarat Energy Transmission Corporation Ltd (GETCO) and



the distribution activity is assigned to four Distribution companies viz. Uttar Gujarat Vij Company Ltd (UGVCL), Madhya Gujarat Vij Company Ltd (MGVCL), Dakshin Gujarat Vij Company Ltd (DGVCL) and Paschim Gujarat Vij Company Ltd. (PGVCL). Further, the function of bulk purchase and bulk sale of power is assigned to Gujarat Urja Vikas Nigam Ltd (GUVNL) as per the re-organization scheme.

1.2 Accordingly, on behalf of its four subsidiary Distribution Companies, GUVNL is carrying the activity of bulk purchase & bulk sale of power.

1.3 The Electricity Act (EA) 2003, National Electricity Policy (NEP) 2005 and Tariff Policy 2016 envisages promotion of Renewable Energy Sources and Co-generation based generation.

1.4 The following provisions of EA 2003 provide enabling legal framework for promotion of Renewable Energy Sources by the State Electricity Regulatory Commission (SERC).

- Section 3 (1) of the EA 2003 requires the Central Government to formulate, National Electricity Policy in consultation with CEA and State Governments for inter alia, development of renewable sources of energy.
- Section 61 (h) of the EA 2003 mandates SERCs to specify the terms and conditions for the determination of tariff bearing in mind the promotion of co-generation and generation of electricity from renewable sources of energy.
- Section 86 (1) (e) of the EA 2003 mandates SERCs to promote co-generation and generation of electricity from Renewable Energy Sources.

1.5 In compliance with the provisions u/s 3 of the EA 2003, the Central Government has notified NEP 2005 and Tariff Policy 2016 elaborating the role of Regulatory Commissions, mechanism for promotion and harnessing of renewable sources of energy, time-frame for implementation, etc.



- Para 5.12 of the NEP 2005 recognizes the urgent need for promotion of generation of electricity from non-conventional and renewable sources of energy, being the most environment friendly.
- Para 4 (e) of the Tariff Policy provide for promotion of generation of electricity from Renewable Energy Sources.
- Para 6.4 (1) of the Tariff Policy provides for various aspects associated with promotion & harnessing of renewable sources of energy including fixation of minimum purchase of energy from RE sources as a percentage of total consumption of electricity in the area of a Distribution Licensee taking into account availability of such resources and its impact on retail tariffs.

The aforesaid Para 6.4 of the Tariff Policy also provides that the SERCs shall also reserve a minimum percentage for purchase of solar energy such that it reaches 8% of *total consumption of energy, excluding Hydro Power*, by March 2022 or as notified by the Central Government from time to time.

- Further, Para 6.4 (2) of the Tariff Policy provides that States shall endeavour to procure power from renewable energy sources through Competitive Bidding Process to keep the tariff low, except from the waste to energy plants.

1.6 In consideration of above aspects, Hon'ble GERC through Notification dated 17.04.2010 had notified GERC (Procurement of energy from Renewable Energy sources) Regulations 2010 and subsequent Amendments through Notifications dated 04.03.2014 (1<sup>st</sup> Amendment Regulations) and 21.04.2018 (2<sup>nd</sup> Amendment Regulations). All these Regulations shall be hereinafter collectively referred as RPO Regulations.

- As per Regulation 4.1 of the RPO Regulations, each Distribution Licensee is required to purchase minimum stipulated percentage of the total consumption of its consumers including T&D losses during a year from RE sources.



- Further, as per Para 2 of Regulation 4.1 of the RPO Regulations, if the prescribed minimum quantum of power purchase either from solar or Wind or Others (including Biomass, Bagasse, MSW, etc.) is not available in a particular year, then in such cases, additional renewable energy available from solar or wind or other energy sources over and above the prescribed % shall be utilized towards fulfilment of the Renewable Power Purchase Obligation (RPO) in accordance with the total RPO% prescribed during the particular year.
- Furthermore, as per Regulation 7.2, a Distribution Licensee is liable to pay compensation (in accordance with Regulation 9), if it defaults / does not fulfill its stipulated RPO, despite availability of RE Sources.
- As per Regulation 9 - "Consequences of Default", Hon'ble Commission may direct the defaulting Distribution Licensees to procure RECs from Power Exchange or deposit into a separate fund, an amount towards regulatory charges equivalent to forbearance price of RECs, in cases where the Distribution Licensee have defaulted in RPO Compliance despite availability of RE sources and/or RECs in the Market.

1.7 The minimum percentages as prescribed by the Hon'ble Commission in the RPO regulations (and subsequent amendments) are tabulated below:-

Particulars	Year	RPO%	Non Solar		Solar
			Wind	Others	
RPO regulations, 2010	2010-11	5.00%	4.50%	0.25%	0.25%
	2011-12	6.00%	5.00%	0.50%	0.50%
	2012-13	7.00%	5.50%	0.50%	1.00%
1 <sup>st</sup> Amendment Regulations, 2014	2013-14	7.00%	5.50%	0.50%	1.00%
	2014-15	8.00%	6.25%	0.50%	1.25%
	2015-16	9.00%	7.00%	0.50%	1.50%
	2016-17	10.00%	7.75%	0.50%	1.75%
2 <sup>nd</sup> Amendment	2017-18	10.00%	7.75%	0.50%	1.75%
	2018-19	12.70%	7.95%	0.50%	4.25%



Regulations, 2018	2019-20	14.30%	8.05%	0.75%	5.50%
	2020-21	15.65%	8.15%	0.75%	6.75%
	2021-22	17.00%	8.25%	0.75%	8.00%

1.8 It is evident from the table above that initially Hon'ble GERC vide stipulating RPO Regulations had been specifying yearly RPO% in a gradual incremental manner but there was a steep and abrupt rise in RPO% notified in 2<sup>nd</sup> Amendment Regulations, 2018 on 21.04.2018 especially solar RPO%.

1.9 It is noteworthy that after knowing the prescribed RPO%, the Obligated Entities need at least 6 - 8 months' time to plan their capacity tie-up arrangements and implement tendering process for procurement of power from Wind and/or Solar Projects by floating tender(s), conducting pre-bid meeting(s), technical bid opening, financial bid opening & e-reverse auction and thereafter issue letters of award (LoA) & execute Power Purchase Agreements (PPAs) with the Successful Bidders. Thereafter, the Successful Bidders require 18 - 24 months' period to set up the Projects awarded to them.

1.10 Thus, inspite of making efforts for aggressive capacity tie-up, such sudden increase in RPO% cannot be complied by any Distribution Licensees, since capacity and generation therefrom would only be available after the lapse of almost two - three years.

## 2.0 SUBMISSION

2.1 Hon'ble Commission had been determining preferential tariff for procurement of power by Distribution Licensees from various Renewable Energy (RE) Sources for meeting of Renewable Power Purchase Obligation (RPO) from time to time. In order to meet the RPO of its Distribution Companies, GUVNL had been purchasing power from various RE Sources by entering into PPAs at the tariff determined by Hon'ble Commission.



2.2 Pursuant to the directives of Hon'ble Commission vide letter dated 18.03.2017 for procurement of power from Wind and Solar projects only through Competitive Bidding, GUVNL started procuring power from Wind and Solar PV Projects by conducting Competitive Bidding and by obtaining approval of Hon'ble Commission for adoption of tariff discovered thereunder.

2.3 Hon'ble GERC vide letter dated 12.07.2021 has stated that since FY 2020-21 is already over, it is necessary to monitor and verify the RPO Compliances of Obligated Entities / Licensees for FY 2020-21 and directed the Distribution Licensees to file Petition with necessary details / documents for RPO Compliance for FY 2020-21 as per the GERC (Conduct of Business) Regulations, 2004 and pay the requisite fees as per GERC (Fees, Fines and Charges), Regulations 2005.

2.4 Accordingly, by way of this present Petition, the GUVNL / DISCOMs hereby submit the status of RPO compliance for FY 2020-21, which is tabulated as under:

RPO Compliance for FY 2020-21	Solar	Wind	Others	Total
Actual Total Consumption (MUs)				93408
Less: Hydro Power Purchase (MUs)				1452
Actual Consumption excl. hydro (MUs)				91956
Target RPO% notified by Commission	6.75%	8.15%	0.75%	15.65%
Target RPO (MUs)	6207	7494	690	14391
Actual RE Purchase (MUs)	4455	7006	244	11704
Achieved RPO%	4.84%	7.62%	0.27%	12.73%
Shortfall (-) / Excess (+) (MUs)	-1752	-488	-446	-2687
Shortfall (-) / Excess (+) (%)	-1.91%	-0.53%	-0.48%	-2.92%

2.5 As regard to the Non-Solar RPO of FY 2020-21, it is to humbly submit that GUVNL / DISCOMs have purchased 7250 MUs non-solar energy i.e. 7.88% as against the requirement of 8184 MUs i.e. 8.90% stipulated non-solar RPO%.

