Annexure-1:- Draft Central Electricity Regulatory Commission (Terms and Conditions for Renewable Energy Certificates for Renewable Energy Generation) Regulations, 2022

The Renewable Purchase Obligation (RPO) Provisions in the Electricity Act, 2003 are the most significant tools for development of renewable energy in the country. The REC mechanism is an important part of implementing RPO regulations.

Renewable Energy Certificate (REC) was introduced in India, in the month of January 2010, after the notification of Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010. The main objective of launching REC is to address the geographical disparity in the renewable resource. There was a need for an incentive mechanism, which would result in commercial benefits for the Renewable Energy (RE) generators on the one hand and to ensure that even those states which are deficient in RE potential are able to meet their individual Renewable Purchase Obligations (RPOs), thereby facilitating inter-state RE transactions. Since the REC mechanism has been notified for a long time now, the objectives are quite clear. Renewable Energy Certificate (REC) mechanism essentially seeks to address the mismatch between availability of RE sources and the requirement of the Obligated Entities to meet their renewable purchase obligation across States. The other objectives include the following;

- Induce higher investment in the renewable sector
- Increase inter-state RE transactions
- Encourage higher participation of smaller players
- Increase financial feasibility of RE projects
- Effective implementation of RPO obligations across all states
- Reduce transaction cost on RE procurement

REC mechanism has been adopted internationally to promote generation and procurement of renewable energy. India has observed consistent growth in the REC trades over the years. However, even after ten (10) years of enactment of REC the situation is not changed at all in India. RE generators who has opted this mechanism are struggling to repay their loans. While the RECs are being primarily utilised by obligated entities, traction is yet to begin in the voluntary participation.

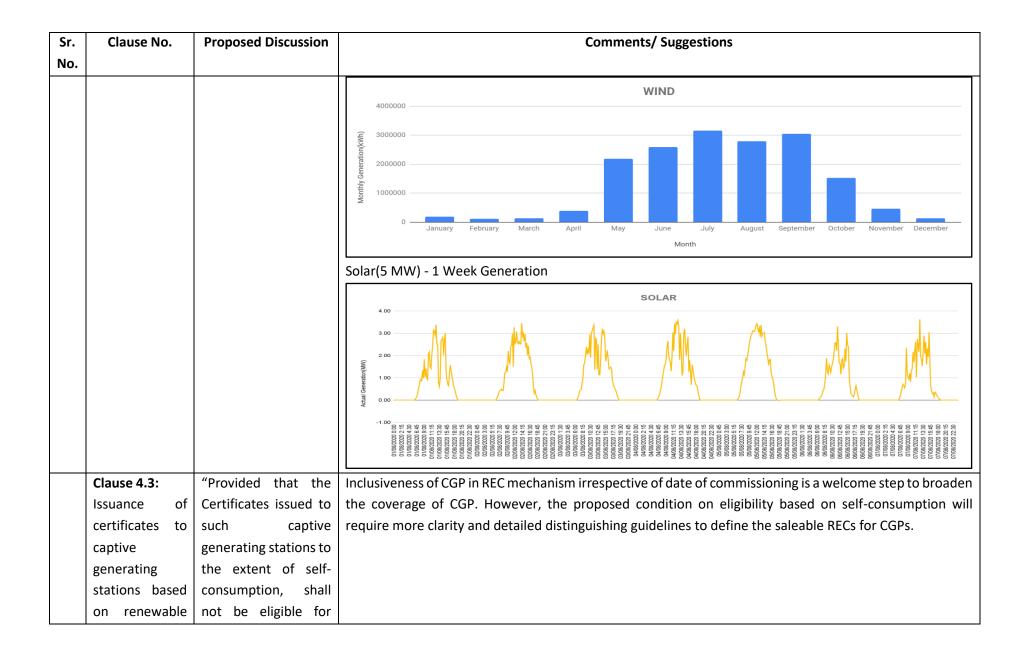
The overall trend of trading of REC however is worrying as the REC sale bids are much more than the buy bids in each and every trading and as a result there are large number of RECs which are remaining unsold. The primary reason of the large volume of unsold RECs is lack of enforcement of the renewable purchase obligations. Further, lack of participation from Distribution companies and large captive power plants is the main reason behind the price crash and accumulation of the RECs and that's why there is a need for revamping the REC mechanism. The generators of REC are feels cheated and defeated after almost a decade of its notification and more than eight and a half year of its operationalization.

As we look forward, India has set for itself a very ambitious renewable energy target. This cannot be achieved without a robust market which is primarily driven by the REC mechanism.

The plan to redesign the REC mechanism by CERC is very timely because over the last decade the nature of renewable energy projects in the country has changed dramatically. At the same time it is also very clear that the REC mechanism has not been functioning optimally, especially over the last few years.

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No.			
	Clause	Eligibility of REC is	It should be noted that most RE projects have significant intra-day and seasonal variation in generation.
	4(2)(b)(iii)	limited to the	For example, solar projects generate only for 8-10 hours a day, wind projects generate 60-80% of annual
	RE project is	renewable energy	generation during the "high-wind" season that lasts 3-4 months, or small hydro projects in the Himalayan
	not eligible for	generation station	generate a significant portion of their electricity in the summer. (See data provided below for annual
	RECs if it has	that does not avail	generation of wind and a week's generation for a solar plant)
	availed "facility	the facility of banking	For these reasons, banking facilities are essential for RE projects to be viable. Without banking facilities,
	of banking of	of electricity.	RE projects that will be set up will be much smaller in capacity, as their capacity will have to be matched
	electricity		with the consuming unit. Banking is not an incentive, it is an existential requirement of Renewable Energy
			Stations and imposition of this condition may amount to depriving renewable energy stations from
			availment of benefits provided by this Regulation.
			Earlier regulation had allowed REC eligibility if the project did not avail preferential banking.
			Banking facility does not provide any monitory benefit to generator, as the banking is allowed only

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			during certain hours & withdrawal of banked power is not permitted during certain hours as well as
			banking charges are also applicable, therefore the cost of banked energy is more than the cost of power
			under open access.
			In view of above, availing Banking facility should not be reason for dis-qualification under REC frame work as
			this will make most captive projects ineligible for REC.
			Wind(5.76 MW) - From 01/08/2020 to 30/04/2021
			Wind
			2 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4
			Wind(10.5 MW) –One Month Generation



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	energy sources	sale."	
	Clause 4(4): Distribution licensee purchasing renewable energy in excess of the RPO are eligible for issuance of certificates for such excess		We welcome this step. However, to promote transparency in assessment of RPO, we request that the Commission make it mandatory for Discom's seeking RECs to provide source wise details of RE procurement as a pre-condition for issuance of RECs. Such data should be certified by the SLDC, and should also be made publicly available.
	electricity. Clause 11: Exchange and redemption of Certificates	Draftregulationproposestodirect trading of RECsthroughelectricitytraders.Goingforward, REC can beexchangedthroughpowerexchanges orthroughelectricitytraders.Thiswilldefinitelyenhance	Allowing direct trading will bring in two key advantages. i.e. it will give long-term visibility to the buyers of the REC and hence they can easily plan to fulfill the RPO. Therefore, it is important to carefully design the roles and responsibilities of traders. In addition to this, we propose that such transactions should also be allowed through the OTC marketplace, as defined in the Power Market Regulations. Trading should be allowed on all recognised marketplace. Explanation on requirement of OTC Market place: From the trade analysis from January 2019, we can see the REC price has been consistently trading over 60% of Floor prices in terms of Non Solar and 140% in case of Solar. Please refer the graph given below;

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		the role of traders in REC trading.	REC - CLEARED PRICE250020002000200010001000500
	Clause 12.2:	The multiplier for	Projects which are commissioned prior to this regulation should also be taken under the ambit of REC
	Promotion of	new RE Technology is	multiplier. The Honorable Commission can also take into consideration the eligibility of the projects which
	new and high	a great initiative and	opt for third party sale/ non-FIT power sale, irrespective of the date of commissioning. For example, SERC
	cost	will incentivize and	determined tariff for biomass projects in Maharashtra is Rs 5.55/kWh ¹ . If these projects were to sell power

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	technologies in	pave the way for easy	in the open market, or if the PPAs were to end, they would need the help of the "multiplier" to remain
	RE and the	"market entry" of	viable.
	provision of	new and emerging RE	
	multipliers for	technologies.	
	issuance of		
	RECs.		
	Certificate		
	multiplier is		
	introduced for		
	the period of		
	three years or		
	as may be		
	decided by the		
	Commission.		
	Clause 13 & 14:	Limited validity of	In light of the frequent extensions required in the past, it appears reasonable to remove a fixed validity of
	Removal of	RECs served an	RECs altogether.
	Validity period	important purpose in	However it needs to be done in conjunction with keeping another important safeguard in place - namely
	of RECs; Floor &	the design of RECs	forbearance price - this will ensure that RECs always trade within reasonable bounds.
	Forbearance	markets. It acted as a	
	Price	safeguard against	
		hoarding or market	
		manipulation,	
		ensuring that RECs	
		always traded at a	

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		reasonable price, and	
		that it did not	
		become a speculative	
		commodity.	
		However, the	
		regulators have been	
		required to extend	
		the validity of RECs	
		several times. This	
		has mainly been	
		driven by the fact that	
		RPO implementation	
		has been a major	
		concern	
Addi	tional Comments		
1	Undue benefit		While discussing REC for CPPs, we would also like to bring to your notice that there has been a relaxation
	to RPO		given to the CPPs in terms of incremental RPO year on year basis, which is implemented on the rest of the
	obligated CPPs:		obligated entities. Earlier, the Ministry of Power(MoP) had published a clarification on its past orders of
			long-term RPO trajectory which stated that,
			"RPO of the CPP may be pegged at the RPO level applicable in the year in which the CPP was
			commissioned. As and when the company adds to the capacity of the CPP, it will have to provide
			for additional RPO as obligated in the year in which new capacity is commissioned. There should
			not be an increase in RPO of CPP without any additional fossil fuel capacity being added"
			Subsequent to the order from MoP, several states have amended their regulations to cap the RPO on CPPs.
			This position of MoP creates a few issues:

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			 According to section 86(i)(e) of Electricity Act 2003, RPO is to be determined on <u>"percentage of the total consumption"</u>, and not on capacity, as this clarification proposes to do. This order has the effect of reduction of demand of renewable energy, and consequently RECs as well The Supreme Court has made important observations on the applicability of RPO on captive generators. The SC said the RPO applicability on captive and open access consumers is well within the ambit of the Electricity Act 2003 and the cost of fulfilling the obligation cannot be held above the larger public interest. In our opinion, CPPs should also be treated equally as the other obligated entities. Hence, CPPs should follow the same RPO trajectory that is set for all other obligated entities. We request CERC or FOR to clarify the applicability of RPO on CPPs, and whether CPPs can be given preferential treatment by reducing or capping RPO for them.
2	4.6	Under the existing Regulations captive generating stations - except those which are commissioned between 29.09.2010 and 31.03.2016 and registered before 30- 06-2016- are not eligible for REC. However, in the proposed REC Regulations, the	The commission restricted to off-set the RPO for the group of companies, however there may be possibility that a company (have RPO obligation), developed captive project through SPV model. In such circumstances, where RE Captive Generating Stations developed through SPV, the RECs generated from to the extent of self consumption shall be permitted to off-set the RPOs of its Group Companies and 100% subsidiaries of the Group companies.

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		Commission has	
		decided to allow	
		captive generating	
		stations based on	
		renewable energy	
		sources to participate	
		in the REC	
		mechanism	
		irrespective of its	
		date of	
		commissioning	
		subject to the	
		condition that the	
		RECs issued up to	
		self-consumption	
		shall not be eligible	
		for sale but can be	
		used only to offset	
		RPO of such CGSs.	
		The Commission	The draft regulations has considered only CTU connected projects, i.e. inter-state transmission network
		dealt various	however silent on projects connected with state grid, i.e. Intra-state Transmission network, therefore
	Explanatory	petitions with regard	requested to kindly consider similar clause for Intra-state transmission connected projects with SLDC as
	Memorandum	to the processes	nodal agency.
	- 6.4	involved in change in	
		name or change in	

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		legal status of the	
		entities. In order to	
		bring clarity and	
		simplify the process	
		in this regard, the	
		Commission has	
		proposed that upon	
		the eligible entity	
		connected to Inter-	
		state transmission	
		<u>system</u> informing	
		about its change in	
		name or change in	
		legal status with	
		relevant documents	
		from appropriate	
		authorities (viz.,	
		Registrar of	
		Companies or	
		National Company	
		Law Tribunal or any	
		other Court), the	
		RLDC shall update	
		such change in	

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		records within 30	
		days	
		Categorisation of	The draft proposes for removal of Categorization of Certificates (Non-Solar and Solar) with the concept of
		certificates as solar	Multiplier, however the wind power projects are restricted to only windy state only and the reason behind
		and non-solar has	to procure Non-solar REC to promote wind projects / non-solar projects in market.
		been dispensed with;	
		instead the concept	The Ministry of power has also issued trajectory on 29th Jan'21 for RPO with a bifurcation in solar, non-
		of Multiplier has	solar & Hydro, therefore REC should also be categorized in term of similar manner, i.e. solar, non-solar &
		been introduced for	hydro.
		new RE Projects	
		based on the	
	Explanatory	principle of tariff	
	Memorandum	range for various RE	
	- 2 (9)	technologies.	