

Ref: ABC CT/CERC/Staff paper on GNA/Comment/2024-25

Date:11/11/2024

To, Shri Harpreet Singh Pruthi, Secretary, Central Electricity Regulatory Commission 6th, 7th & 8th Floors, Tower B, World Trade Centre, Nauroji Nagar, New Delhi- 110029

Sub: Comments on Suggestions on Central Electricity Regulatory Commission Staff Paper for necessary modifications in the GNA Regulations

Respected Sir,

Please accept our warm Greetings of the Day!

I am writing on behalf of ABC Cleantech Private Limited, to provide our comments on the Suggestions on Central Electricity Regulatory Commission Staff Paper for necessary modifications in the GNA Regulations.

ABC Cleantech remains committed to engaging constructively with CERC throughout this process. We are submitting herewith our comments on the above subject and hope to ensure that the suggestions achieves its objectives while minimizing unintended consequences for stakeholders.

We welcome further dialogue and are prepared to provide additional information or clarification upon request.

Thank you for considering our comments.

Yours faithfully

For ABC Cleantech Pvt. Ltd.

Prashant Kanaujia Authorized Signatory



<u>Comments and Suggestions on Central Electricity Regulatory Commission Staff Paper</u> <u>for necessary modifications in the GNA Regulations</u>

S.No	Issue No	Comments and suggestions
	Issue No. 1: Substitution of GNA quantum	This suggestion is a positive
	under Regulation 17.1(i) to Regulation	recommendation. Allowing the substitution
	17.1(iii) to the GNA Regulations	of GNA quantum under Regulation 17.1(i)
		with GNA under Regulation 17.1(iii) would
	i. Whether such substitution of GNA	enable DISCOMs to optimize transmission
	quantum under Regulation 17.1(i) to GNA	charges and reduce losses, with any savings
	under Regulation 17.1(iii) should be	potentially being passed on to consumers
	allowed?	through lower tariffs. However, such savings
		would only occur if there is a corresponding
	ii. If such substitution is allowed, should it	reduction in drawl from the STU network by
	be coupled with the following conditions:	the DISCOM/intra-state entity. If the entity
		remains significantly connected to the STU
	a. the entity shall submit the NOC from the	network for reliability purposes, these savings
	STU.	may not be realized. Nevertheless, including
		this provision in the GNA regulations would
1	b. the entity shall be liable for payment of	be advantageous.
	the charges of the intra-State network or	
	relinquishment charges, as applicable.	The substitution process should not require a
		mandatory NOC from the STU but should
	c. the entity shall be radially connected	instead proceed with a notification to the
	with the ISTS as 17.1(iii) entity	STU. Since the DISCOM/intra-state entity
		remains connected to the STU network (as
		outlined in Para 2.4 of the staff paper), the transmission infrastructure will continue to
		be utilized and paid for under existing SERC
		regulations. If the substitution results in the
		DISCOM/intra-state entity relinquishing its
		connectivity with the STU network, the
		relevant provisions of SERC-STU regulations
		would naturally take effect.
	Issue No. 2: Use of GNA of a Connectivity	The utilization of GNA by a non-GNA grantee
	grantee by an entity connected with an	entity, connected through the InSTS or
	intra-State network that is not a GNA	DISCOM network, should be allowed. Such
	grantee.	utilization should be contingent upon
		obtaining a NOC from the STU or DISCOM,
2	i. Whether such utilisation of GNA of a GNA	confirming that there is sufficient
	grantee can be allowed by an entity that is	transmission capacity available within the
	not a GNA grantee?	intra-state network to support the power
		flow.
	ii. If such use is allowed, should it be	
	coupled with the following conditions:	

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		This is particularly beneficial as the intra state
	a. Such request to be made along with the	entity is able to source power under oper
	NOC from the STU towards availability of	access without taking extra GNA/GNAre
	space in the intra-State network for such	Consider a scenario when an intra state entity
	quantum of GNA and period.	connected with DISCOM network wants to
		source RE power from ISTS. Since no new loa
	b. Such request for utilisation of GNA shall	is getting connected within the state networ
	be from an entity located in the same State	so practically, the requirement of power fror
	or same region as that of the GNA grantee.	outside the state and thus quantum of GN
	The additional conditionalities that need to	remains the same. Allowing, this entity t
	be imposed for considering the GNA	share the GNA with the DISCOM GNA actual
		optimizes the GNA quantum. Waiver shoul
	utilisation beyond the state.	
		be allowed to entity "A" in case of sourcing of
	c. Such request should only be allowed	power under RE. In terms of GNA cos
	based on the margin available in ISTS, and	sharing, a method can be devised whic
	no augmentation in the ISTS is to be made	guides the GNA holding entity as to how t
	to facilitate such use of GNA.	compute the charges it should charge th
		entity which is utilizing the GNA may b
	d. Such utilisation shall be restricted to	during few time blocks.
	GNA only and not GNARE.	
		Furthermore, the use of GNA by a non-GN
	iii. Issue of Waiver of transmission charges:	grantee entity should be permissibl
	If entity 'B' draws power from RE	nationwide, without restriction to the state of
	resources, should the GNA grantee 'A' be	region of the original GNA grantee. Under th
	allowed waiver in respect of such RE power	GNA framework, the national grid operates a
	drawl.	a unified system, allowing entities to draw
		power from any source or supply power t
		any load center across the country. Given the
		GNA transfers are currently limited to a 3-yea
		period, these transfers should only utilize th
		existing margins within the networ
		However, if the CERC extends the transfe
		period to, say, 25 years, this wou
		necessitate additional netwo
		reinforcement and corresponding bar
		guarantees to be provided to the CTU. In suc
		cases, the entity acquiring GNA throug
		transfer should be responsible for the
		necessary BGs and associated charges.
		necessary bus and associated charges.
		Both GNA and GNA RE transfers should b
		allowed. Since the ISTS waiver is based of
		power scheduled from a renewable energy
		(RE) generator, this waiver should also app
		to entity 'B' that is responsible for schedulin
		the RE power.

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No	Issue No	Comments and suggestions
	Issue No. 3: Dual Connectivity to the Bulk	Connectivity to both intra-state and inter
	Consumer for the same load capacity	state networks for the same load capacity
		should be permitted, provided that the
	i. Whether such grant of GNA to Bulk	applicable transmission charges for the
	Consumer through dual connectivity, i.e., for the same load capacity should be	contracted capacity reserved in each respective network are paid. This should hole
	allowed or not?	true regardless of the actual extent of usag
		of either network.
	ii. If such a grant of GNA to Bulk Consumer	
	through dual connectivity is allowed, can it	
	be coupled with the following conditions:	
	a. NOC of the STU based on the	
	commitment of bulk consumers to pay the	
	applicable charges of the intra-State	
	network if the applicant is already	
	connected with the intra-State network	
	and seeking GNA through direct	
	connectivity with ISTS?	
	b. Commitment of bulk consumer to pay	
	the applicable charges of ISTS if the	
	applicant is already connected with the	
	ISTS and seeking connectivity to the intra-	
	State network.	
	c. Should only those Bulk Consumers be	
	granted GNARE from ISTS, which is	
	drawing only RE power through the intra-	
	State network also. Further, after the	
	granting of GNARE, if the user starts drawing non-RE power through the intra-	
	State network, its GNARE may be	
	converted into GNA with a waiver of the	
	ISTS charges as applicable for GNA in terms	
	of the Sharing Regulations, 2020.	
	<i>Issue No. 5: Utilisation of the Connectivity</i> <i>granted to a subsidiary by another</i>	This is an essential provision that should k incorporated into the GNA Regulation
	subsidiary of the same Parent company.	Currently, Regulation 15.1 allows the
		utilization of connectivity granted to a parer
	Whether such utilisation of Connectivity	company by its subsidiary, and vice vers
	among the different subsidiaries of the	prior to the COD of the project. It
	same Parent company should be allowed	recommended that this flexibility b
	or not?	extended to permit the utilization
		connectivity among various subsidiari

under the same parent company.

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		Additionally, Regulation 15.3 provides for the transfer of connectivity post-COD of the REGS project to any entity that acquires 51% or more shareholding of the company, subsidiary, or affiliate that owns the REGS project. It is proposed that the transfer of connectivity should be allowed not only between a parent and its subsidiary or vice versa, but also among subsidiaries of the same parent company. For any entity that is not affiliated with the parent company and acquires a 51% stake in the REGS, the transfer should only be allowed post-COD, as currently provided under Regulation 15.3. Further, the provisions of Regulation 15 should also include connectivity granted to a renewable power park developer as well. Thus, connectivity transfer and utilization of connectivity by subsidiaries under the same parent company be allowed even in the case of RPPDs. It would not only bring parity in the connectivity routes but also shall bring in flexibility in development of RPPD infrastructure and utilization.
4	Issue No. 6: Platform for providing NOC by the STU in a time-bound and a transparent manner Whether such a centralized online platform is required to be implemented for processing the application for grant of NOC by the STU in terms of availability of transmission capacity in the intra-State network?	A centralized online platform for processing NOC applications from State Transmission Utilities (STUs) is indeed crucial, particularly for assessing the availability of transmission capacity in the intra-state network. Such a platform would greatly enhance transparency and accountability throughout the application process. This centralized portal should also support the processing of NOC applications from DISCOMs (or SLDCs) as mandated under various SERC regulations. For bulk consumers connected to the grid at 11 kV or 220 kV, who require both STU and DISCOM NOCs to access open access under the GNA Regulations, the portal would streamline the processing of these approvals.

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		The Ministry of Power, in its letter no. 25- 10/30/2024-PG dated 18.09.2024, has directed all states to integrate the NOC issuance procedure for GNA applicants with their state single window systems, which should subsequently connect to the National Single Window System. Therefore, developing a centralized portal aligned with this directive is imperative.
		Furthermore, approvals from STUs and DISCOMs should be granted within 15 days of submission of the NOC application, as stipulated under the Green Energy Open Access Rules, 2022. If this timeline is not met, the system should automatically grant deemed approval to ensure timely processing and support the broader goals of open access and green energy facilitation.
	Issue No. 7: Provision for grant of Solar	The introduction of the concept of non-solar
	hours Connectivity and Non-Solar hours	connectivity is a welcome and innovative step
	Connectivity through the same Transmission system	towards achieving the stated regulatory objectives. However, the following concerns should be addressed before finalizing this
5	Should existing solar generators (without storage) also be given the option to install storage for utilisation of connectivity/ GNA during non-solar hours by submitting an application to CTUIL within three months and installing within a period of 24 months, failing which connectivity/GNA during non-solar hours shall be utilised to grant another connectivity through the same transmission system as 'non-solar hour connectivity' to another applicant, based on the other RE resources or Storage plant, for injection of power during non- solar hours?.	framework: i. Application Submission Timeline: The requirement to submit applications within 3 months lacks clarity on when this period begins. It is recommended that existing solar generators be provided with a minimum of 6 months from the date of notification of these regulations. After this 6- month window, new applicants seeking non- solar hour connectivity may be granted priority. However, existing solar generators should still be permitted to apply for non- solar connectivity post this period, with the allocation being determined based on a timestamp mechanism. ii. Power Drawn During Non-Solar Hours:

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		Solar plants draw power from the grid during
		non-solar hours (e.g., late evening or night)
		for auxiliary purposes, which is currently
		billed at DSM rates. If a Battery Energy
		Storage System (BESS) with non-solar hour
		connectivity is injecting power during these
		hours, there is ambiguity regarding how solar
		plants will meet their auxiliary power needs
		and at what rates.
		During solar hours, co-located BESS units will
		require charging. This can be facilitated by:
		Using excess generation from the incumbent solar plant.
		Setting up a dedicated solar facility exclusively
		for BESS charging, with no grid injection.
		Purchasing charging power from third parties.
		If a dedicated solar plant is used solely for BESS charging with no grid injection, energy
		accounting would be internal and
		straightforward, eliminating the need for
		regional energy accounting. However, if
		power is sourced from third parties or the
		incumbent solar plant, the energy accounting
		at the Point of Injection (POI) for
		simultaneous injection and drawl needs to be
		clearly addressed. This may require special
		metering and net scheduling approvals,
		which the Hon'ble CERC should clarify to
		prevent disputes during both solar and non-
		solar hours.
		iii. Cost Sharing of DTL and Terminal Bays:
		The cost-sharing arrangements for using dedicated transmission lines (DTL) and
		terminal bays by co-located BESS with solar
		generators should be based on benchmark
		costs approved by the Hon'ble Commission,
		using standards set by PGCIL. Regulatory
		oversight is essential to define the
		commercial terms, rights, and obligations
		associated with this shared infrastructure,
		reducing the potential for disputes and
		litigation.
		iv. CONN-TD Revision:
		The addition of BESS will alter the technical
		specifications required under the existing
		CONN-4 framework, necessitating fresh

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S.No		approvals from the CTU along with associated investments. The regulations should mandate that any investments required to meet these revised technical needs be borne by the incoming BESS entity. Additionally, if connectivity is shared between two different entities, the Bank Guarantees (Con BG 1, 2, 3) and infrastructure sharing costs should be allocated proportionally. v. Protection of Solar Generator Rights During Solar Hours: The incumbent solar generator must have an exclusive statutory right to inject power into the grid during solar hours. While a BESS can inject or draw power at any time within a 24- hour period using the shared DTL and bays, the first right to utilize connectivity and schedule power during solar hours should always rest with the incumbent solar generator. vi. Determining the Size of the BESS: Ideally, the maximum size of the BESS should be limited to the solar capacity for which connectivity has been granted. However, this may not always align with the technical capacity of the infrastructure. For instance, a 220 kV DTL and bay could handle up to 350 MW or more, depending on the conductor used (potentially up to 400 MW), and subject to evacuation margins at the bay and grid substation. It is recommended that the regulations clearly specify the maximum allowable BESS size. Additionally, clarification is needed on
		whether applications for non-solar connectivity will be made under Regulation 5.2 of the GNA regulations, which has a minimum capacity requirement of 5 MW. If this is the case, the BESS capacity would be capped by the solar connectivity already granted.

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6	Issue No. 8: Provision for Minimum Transmission Capacity Utilisation for Hybrid ISTS Connectivity An applicant should take Connectivity for a quantum that it wishes to utilise. It is proposed that to ensure the optimal utilization of the transmission system, a minimum annual capacity utilization, i.e., 50%, for RHGS may be mandated, failing which the underutilized capacity of the Connectivity may be reduced, effective 1 st October 2026. Alternatively, the quantum of Connectivity equal to the average of maximum injection in any time block of a day over the year (first year after the declaration of COD) may be allowed to be retained by the Connectivity grantee, and the balance quantum of the part of the Connectivity on such vacated capacity may be granted to other entities.	Tenders issued by Renewable Energy Implementing Agencies (REIAs) and DISCOMs typically specify a minimum Capacity Utilization Factor (CUF) that must be achieved by Renewable Hybrid Generation Systems (RHGS). However, imposing a regulatory minimum annual CUF may not be commercially feasible for RHGS grantees due to specific stipulations in utility tenders and Corporate & Industrial (C&I) Power Purchase Agreements (PPAs), which often include defined CUF ranges, limits on CUF variation, and prescribed ratios for the mix of wind and solar components. Moreover, RHGS projects can either be co- located or non-co-located. In the case of non- co-located systems, where connectivity points are at separate substations, power is still scheduled under a single contract but with individual schedules for each component. Here, the overall utilization is constrained by the maximum CUF of either the solar or wind component individually, and any curtailment would negatively impact project economics.
	Suggestion with regards to Renewable	Therefore, it is recommended that CUF requirements be driven by the contractual agreements between parties rather than mandated through overarching regulations. This approach would provide the necessary flexibility to accommodate project-specific needs and optimize commercial viability. The existing clause is only applicable to REGS
7	 Suggestion with regulas to kenewable Power Park Developer (RPPD) As per existing clause 11.A (iv), In case of Applicants which have been granted Connectivity under Land/Land BG route but are subsequently covered under LoA route the requirement of furnishing the documents in accordance with Clauses (1) to (3) (i.e. Land Document, FC etc) shall be the same as applicable to the 	(other than Hydro generating station) or ESS (excluding Pumped Storage Plant (PSP)) who have applied for grant of connectivity under Clause (xi)(b) or Clause (xi)(c) of Regulation 5.8 and has been issued final grant of Connectivity. GNA draft 3 rd amendment provision does not cover the cases of REGS or ESS who have utilised connectivity granted to Renewable Power Park Developer (RPPD).

Issue No	Comments and suggestions
entities covered under land route.	
This clause should be applicable	The logic of this new draft provision show
for RPPD as well and to be	also be extended to the RPPD who ha
modified as	applied for grant of connectivity under Clau
	(vii), (a) & (b) or Clause (vii), (a) & (c)
As per draft GNA 3 rd amendment	Regulation 5.8 and has been issued final gr
"Entity which secured on connectivity	of Connectivity for further utilization by
on Land/ Land BG route and received	REGS or ESS. If the REGS which has execu
Final Grant of Connectivity is issued	agreement with RPPD is having a LOA/P
LoA/ enters PPA would be eligible for	then the RPPD should be allowed the ben
conversion of route to LoA/PPA route	of this clause.
	or this clause.
for part or full capacity may apply to	
CTU for such conversion based on	1. Uniform Treatment: If a REGS
following conditions	entered into an agreement with
• If LOA or PPA is for a RE sources	RPPD and possesses a valid Letter
(with or without storage) other	Award (LOA) or Power Purcha
than the RE source(s) (with or	Agreement (PPA), the RPPD sho
without storage) provided in the	also be eligible for the benefits of t
Connectivity application applied	clause. Extending the clause to RPF
under Land/ Land BG route, such	would ensure consistency in h
an entity shall be required to first	connectivity benefits are appli
get approval of change of	especially since REGS utiliz
configuration from CTU prior to	connectivity through an RPPD a
seeking conversion	effectively in the same position
• Where part capacity is converted	standalone REGS that have appl
CTU shall issue revised	independently.
connectivity intimation for	2. Level Playing Field: There should
each part, treating each	uniformity in the application
part as separate	regulatory provisions to ensure t
connectivityEntity shall submit	generation projects located within
	Renewable Energy Park (RE Park)
separate Conn-BG1 for	on equal footing with standald
each part	generation projects. This would av
Conn-BG2 and Conn-BG3	any discrimination based on t
shall be revised and re-	structure of the project, ensuring
submitted for each part	treatment across the sector.
calculated on pro rata-	3. Facilitating Hybrid and Integrat
basis based on the	Projects: Many RPPDs are develop
quantum	large-scale RE Parks that integra
• Min. conversion capacity to	various RE sources and ESS. Allow
be 50 MW	them to benefit from the connectiv
• After conversion has been	provisions under Regulation
approved by the CTU the	would encourage the development
requirement of furnishing the	more integrated and efficient
documents towards such	renewable energy projects, align
converted Connectivity, in	with broader policy objectives

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	accordance with Clauses (1) to (2) of this Regulation, shall be the same as applicable to the entities covered under LoA/PPA route with the condition that SOCD shall be the start date of Connectivity. • Submission of Land Documents within 18 (from In-principle grant) or 12 months (from Final grant) • Demonstrate FC 6 months prior to Start date of Connectivity	 maximizing RE integration into the grid. Recommendation: The draft amendment should explicitly include RPPDs who have applied for connectivity under the relevant clauses of Regulation 5.8. This extension would provide clarity and ensure that REGS and ESS units, whether operating within RE Parks or as standalone entities, are treated equitably under the connectivity framework. This approach will promote a level playing field and foster the growth of integrated renewable energy projects.