

Advisory on Processing of Application for Connection Details of Generators

Date: 09.01.2026

1. Clarification w.r.t mismatch of installed capacity (IC) in simulation study models and connectivity grant letter in context of RE Plants/Parks for meeting technical compliance at PoI.

This is in continuation to advisory issued by CTU on 20th November, 2025, regarding clarification on mismatch of installed capacity (IC) between simulation study models and connectivity grant letter, wherein it is mentioned that “In case of a mismatch in the IC value as per name plate rating of active power generating unit/equipment (IC greater than the that mentioned in connectivity grant letter) in the simulation study models, the grantees(s) are required to apply for enhancement in IC/addition of generation capacity under Regulation 5.2 of the CERC GNA Regulations, 2022.”

CERC in order dated 8th December, 2025 in Petition No. 14/SM/2025, has directed the following:

Quote

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22. Considering the above and in the interest of the sector, we relax the provision under Regulation 5.1 of the GNA Regulations only for the REGS and allow the RE Developers to install additional inverters, WTGs, or equivalent equipment for meeting technical compliances at the Point of Injection (POI). There shall not be any requirement of furnishing additional Conn-BGs and compliance of Regulation 5.8 of the GNA Regulations for such additional capacity to meet the reactive power compensation, internal losses (DTL loss), or any other technical compliance at the Point of Injection (POI), either applied under Regulation 5.1 or applied under Regulation 5.2.

23. CTUIL shall confirm such additional capacity through system studies conducted for Conn-4 and allow the additional capacity for the quantum which is required only to meet the reactive power compensation, internal losses (DTL loss), or any other technical compliance at the Point of Injection (POI) and that active power injection shall not exceed quantum of Connectivity granted at POI.

....

Unquote.

In this regard, an undertaking clearly indicating the breakup of active power delivery at POI (MW), reactive power (MVar), *internal losses (DTL loss) or any other technical compliance* of rated Installed Capacity (IC), duly substantiated by steady state simulation study results, solely required for the purpose of ensuring technical compliance shall be submitted by the applicant as mentioned at **Annexure-A**.

Further, Procedure for assessment of the Design Temperature for RE Plants in compliance to CEA (Technical Standards for Connectivity to the Grid) Regulations, issued by CEA on 8th April, 2024 has specified the temperature at which simulation study is required to be carried out. In cases, where capacity of the inverters exceeds the rated installed capacity due to lower ambient temperature requirements, as per the

aforementioned CEA procedure, compared to the designated design temperature, in such cases those details shall be explicitly mentioned in the technical connection details.

Further, the applicant shall apply for additional generation capacity for solely meeting technical compliances, within the connectivity quantum granted to it, under Regulation 5.2 of the CERC GNA Regulations, 2022 as mentioned in CTUIL advisory dated 20th November, 2025.

Upon receipt of the valid application for additional generation capacity under Regulation 5.2, the technical connection data application shall be processed for issuance of the detailed connection offer, and the application shall be regularised in subsequent regional Consultation Meeting for evolving Transmission Schemes (CMETS) for additional capacity under Regulation 5.2 of GNA Regulations, 2022 during the transition period.

However, once transition period is over (which will be notified separately), the applications for submission of technical connection data shall be processed after discussion in CMETS.

2. Derating of wind turbines at high ambient temperatures are considered for processing of technical connection details as per MoP Office Memorandum dated 30th September 2025.
3. Regarding power transformer overloading at Generator Pooling Station above the full rated capacity, technical connection details are processed in accordance with the CEA minutes of the meeting held on 09th September, 2025 to discuss representation of WIPPA & NSEFI regarding transformer overloading above the full rated capacity.
4. To ensure timely processing of applications, comments on the simulation study report shall be provided, and revisions shall be permitted up to a maximum of three times. Beyond this, the application will be closed, entity(ies) may apply afresh on NSWS portal once the simulation models or other issues are resolved for their project.
5. To ensure faster processing, applicants shall submit python automation files for batch processing of all RMS & EMT simulation cases, in accordance with list of required studies published on CTUIL website. The submitted python files must be clearly commented, with distinct sections delineating software settings, power quality, steady-state and dynamic simulations for both PSSE and PSCAD platforms.

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Annexure-A

Undertaking for exemption of Bank Guarantee for meeting Technical Compliance under 5.2 of GNA Regulations

1. Name of Grantee: _____
2. Reference number & date of intimation for in-principle grant of connectivity dated _____
3. Reference number & date of intimation for final grant of connectivity _____ dated _____
4. Quantum for which connectivity is granted _____ MW
5. Total installed capacity as per intimation for grant of connectivity _____ MW.
6. Details of installed capacity:

Sl. No.	Description	At temperature corresponding to name plate rating of inverter (rated capacity):	At temperature prescribed by CEA procedure
A	Total installed capacity	_____ MW @ _____ °C	_____ MW @ _____ °C
A1	Number of inverters/WTG		
A2	Capacity of each Inverter/WTG		
B	Installed capacity of plant attributing active power delivery at POI (B1+B2+B3)	_____ MW	_____ MW
B1	Active power at POI in MW	_____ MW	_____ MW
B2	<i>Internal losses (DTL loss) in MW</i>	_____ MW	_____ MW
B3	Any other requirement for technical compliances in MW (if applicable)	_____ MW	_____ MW
B4	Sub-Total: Additional installed capacity w.r.t meeting active power losses and other technical compliances (B2 + B3)	_____ MW	_____ MW
C	Installed capacity of plant attributing reactive power delivery at POI, including internal losses & any other technical compliance (Reactive Power Compensation in MVAr)	_____ MVAr	_____ MVAr
D	Total MVA of the Inverter = $\sqrt{B^2+C^2}$	_____ MVA	_____ MVA

Note: In cases where the inverter capacity is specified in MVA instead of MW, the applicant must provide the data in MW, assuming unity power factor.

Signature & Stamp of Applicant

Date _____