

REGULATORY REQUIREMENTS TO BE FULLFILLED BY RENEWABLE ENERGY GENERATORS BEFORE COMMISSIONING OF THE PROJECT AND GETTING CONNECTED WITH MP GRID

1. Registration Fee: Registration Fee of ₹ 5000/- for registration with SLDC is to be deposited in the SLDC account, details may be obtained from SLDC. The Registration form (**Annexure-A**) should be submitted to SLDC.

2. TELEMETRY & COMMUNICATION : The Data Acquisition facility (Telemetry) for transfer of pooling station wise and turbine wise / inverter wise telemetry data along with whether parameters to SLDC/Sub LDCs should be established alongwith communication facility in accordance with the guidelines specified in **Annexure – B**.

3. ABT Metering with AMR: All the Main, Check and Standby meters will be installed at the location specified in CEA Metering Regulations and subsequent amendments thereof. However, in case of RE Generators where pooling of generation is at common pooling station, meters shall be installed at the outgoing feeders of pooling station as per clause 17.9.1 of MP Electricity Grid Code (MPEGC) 2024.

The interface meters shall be of open protocol conforming to IS 15959 and of 0.2s accuracy class. The accuracy class of Current Transformers (CTs) and voltage transformers (VTs) shall not be inferior to that of associated meters. The specification of meters shall conform to clause 17.6.20 of MPEGC 2024.

As per clause no. 17.10.1 of MPEGC 2024, RE Generators (in whose premises the Special Energy Meters are installed) shall provide Automatic Meter Reading (AMR) facility for transmitting ABT meter data to SLDC remotely. The RE Generators may have the option to integrate their meters with AMR system (Secure make) installed at SLDC. Alternatively, they may integrate their meters with AMR system of Licensee or any other service provider and provide .xml file along with export & import data duly certified by the concerned Licensee officials to SLDC.

The RE Generators shall also provide the ABT meter and metering equipments details dully certified by MPPTCL / Discoms in the format as **Annexure-I**.

4. Single line diagram indicating the connectivity with the grid duly certified by:

- (i) MPPTCL when connected to 132 KV and above
- (ii) DISCOM when connected at 33 KV and below at MPPTCL / DISCOM substation.

5. Copy of connection agreement with MPPTCL or DISCOM as the case may be.

6. Information regarding sale of power to MPPMCL / Third party sale (Copy of PPA & LTA). In case of Third Party sale / Captive Use, the Wheeling Agreement / Consent letter from MPPMCL / Discoms is required.

7. Copy of approval from Chief Electrical Inspector for elements as well as for feeder.

8. Information regarding Unique Registration Number (URN) for Connectivity with the Grid: CEA vide its Order dated 09.11.2020 (Ref. No.: CEA-PL-15-13(11)/1/2020-PSLF) has directed that All the Grid - connected Renewable Energy (RE) generators, having installed capacity of 0.5 MW or above are required to register themselves on CEA e-GEN portal, <http://egen.cea.gov.in>.

9. Information required for Renewable Energy Management Centre (REMC) in **REMC format**.

9. All wind, solar and hybrid of solar & wind generators to be synchronized with the grid at 33KV or above should have “Low Voltage Ride Through (LVRT) Capability” in their Generating Stations in accordance with MPEGC 2024 and connectivity conditions specified in CEA Technical Standards for Connectivity Regulations as amended. The Generators are required to furnish the information as per **LVRT format**.

10. The Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electrical Lines), Section 88(5) mandates that “The owner shall arrange all required consents and approvals including as those from Power Telecommunication Coordination Committee (PTCC); and for civil aviation, road, river, rail, canal or power line crossing, way leaves and environment & forest clearances etc. from the concerned Authorities, agencies. In order to comply the above requirement, the transmission licensee / owner may ensure that “PTCC Route Approval” is accorded by the competent authority and submit undertaking for the same as per **PTCC Route Approval format**.

11. FORECASTING, SCHEDULING AND DEVIATION SETTLEMENT (to commence after commissioning): Hon’able State Commission has notified the MPERC (Forecasting, Scheduling, Deviation Settlement Mechanism and related matters of Wind and Solar Generating Stations) Regulations 2018 on 20th April 2018 and subsequent amendment thereof. The regulations are applicable to all Wind Generators having a combined installed capacity of 10MW and above and Solar Generators with an installed capacity of 5 MW and hybrid of Wind and Solar power generator having installed capacity 10MW and above including those connected via pooling statins and selling power within the State under open access. These regulations are also applicable to all Wind, Solar and Solar Wind Hybrid Generation projects selling power outside the state under open access and having combined installed capacity of 1MW and above

In compliance to the regulatory provisions, all the qualified Wind and Solar Generators shall have to appoint Qualified Coordinating Agency (QCA) which may be one of the Generator or any other mutually agreed agency for the purpose of forecasting / scheduling, metering, data collection/ transmission, communication, Settlement of Deviation Charges, De-pooling of payment and settlement with Generators. The QCA shall be treated as a State Entity and shall have to get registered with SLDC by submitting the dully filled up **QCA-Registration Form** available at website. All the qualified wind,solar & hybrid power projects shall have to submit day ahead Available Capacity (AvC) and load forecasting and real time revisions of their project at pooling sub-station on 15-minute time block as per **Forecasting Format** in **Annexure-III** to SLDC at email id -sldc.abt@mptransco.nic.in by 06.00hrs daily. The other RE Generators shall also be subjected to scheduling as per 7th Amendment to MPERC (Co-generation and Generation of Electricity from Renewable Sources of Energy) (Revision-I) Regulations, 2010 and shall submit their load forecasting and real time revisions of their project at pooling sub-station on 15-minute time block as per **Forecasting Format** in **Annexure-III** to SLDC at email id -sldc.abt@mptransco.nic.in by 06.00hrs daily.

12. The RE Generators are required to provide contact details of Control room /Monitoring centers.

13. RE Generators may also refer updated provisions of the applicable regulations / codes as amended from time to time by the Commission.
