

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: ABT meters of 0.2s accuracy class and of open protocol conforming to IS: 15959 with AMR facility. This is to be provided at the pooling sub-station / Interface point for the purpose of energy accounting. Also provide the ABT meter and metering equipments details dully certified by MPPTCL / Discoms in the format as **Annexure-I**. The ABT meters should have AMR facility for providing meter data to SLDC.

To do this you have to install modem and SIM (capable of working on both GPRS & GSM network) enabled at the interface point and integrating the meters with the AMR system of Secure make installed at SLDC which has the static IP address 117.239.195.194, for data transfer between energy meter and AMR system at SLDC over the GSM/GPRS communications network. The integration of ABT meters with AMR system could be done with the help of M/s Secure or any other competent vendor.

After integration of ABT meters with AMR system, you have to obtain a confirmation from SLDC that the meters are integrated with AMR system and data of ABT meters are being successfully downloaded through AMR system.

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.

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

9. In accordance with CEA (Technical Standards for connectivity)-Regulations-2013(Part-II) and directions issued by Hon'able CERC in their order dated 05.01.2016, the Wind Electric Generators (WTGs) of capacity equal to or more than 500KW except "Stall Type WTGs" and Solar Generators whose bidding process was not commenced on 05.01.2016 and connected at voltage level 132KV and above should have "Low Voltage Ride Through (LVRT) Capability" in their Generating Stations and 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 (to commence after commissioning) : The CERC vide order dated 09.07.2013 had approved the detailed "Procedure for the implementation of the mechanism of Renewable Regulatory Fund" and directed that the RRF mechanism shall be implemented w.e.f 15.07.2013. In the said procedure the Commission has directed that the procedure shall be applicable to solar power projects with collective capacity of 5 MW and above connected at connection point of 33kV level and above. The CERC vide order dated 07.01.2014 has suspended the commercial mechanism but continued the forecasting & scheduling as per the provision of order dated 09.07.2013. Further, Hon'able MPERC vide order dated 05.02.2014 has also issued the directives to the petitioners i.e. wind generators to continue with forecasting and scheduling of wind electricity generation as per CERC's order dated 09.07.2013. As such wind and solar power projects shall have to forecast their generation to SLDC on day ahead basis. The CERC & MPERC orders may be referred for further details regarding forecasting & scheduling. All wind & solar power projects shall have to furnish one time details as per **Annexure-II** and start day ahead load forecasting of their project at pooling sub-station on 15 minute time block as per format in **Annexure-III** with effect from the date of commissioning of 5 MW and above capacity for solar projects and 10MW and above capacity for wind projects and the same shall be sent to SLDC at email id – remcjbpb@gmail.com and remcjbpb@yahoo.com by 10.00hrs 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.
