Draft

DETAILED OPERATING PROCEDURE

FOR

FORECASTING AND SCHEDULING

FOR

RENEWABLE ENERGY (RE) GENERATING STATIONS

PARKS/ POOLING SUBSTATIONS

AT

INTRA-STATE LEVEL

Dec/2023

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Detailed Operating Procedure

for

Forecasting and Scheduling

for

Renewable Energy (RE) Generating Stations Parks/Pooling Substations at

Intra-State level

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SECTION-I: GENERAL

1. Introduction:-

1.1 This procedure is formulated to comply the directives of Hon'ble CSERC Order 01/06/2023 towards Petition No. 48 of 2023 in the matter of "Suo-motu Petition No. 48 of 2023 Vs. CSPDCL"; where in CGSLDC has been directed to propose a Detailed Operating Procedure for Forecasting and Scheduling for Renewable Energy Generating Stations (REGS) Parks/ Pooling Substations at Intra-State.

1.2 As necessary provisions for dealing with Forecasting and Scheduling for Renewable Energy Generating Stations (REGS) Parks/Pooling Substations at Intra-State level were insufficient in existing CSERC-State Grid Code-2011 and CSERC-Internal Procedure for Operating CG Grid-2011; this Procedure has been prepared in accordance to the various provisions CSERC regulations from 2011 to 2023 till date and also considering the procedure specified CERC- IEGC- 2023 notified by CERC on 29/05/2023 for Forecasting and Scheduling for Renewable Energy Generating Stations (REGS) connected to a pooling station at Inter-State level.

2. Definition:

2.1 '**Pooling Station**' means the sub-station where pooling of generation of individual Wind Generators or Solar Generators is done for interfacing with State Transmission Utility/Distribution Licensee Sub-Station.

2.2 '**Qualified Co-ordinating Agency (QCA) and or Lead Generator**' means the mutually agreed Agency registered with CGSLDC, to act as a coordinating agency on behalf of RE Generators (REGS or RHGS) including Energy Storage Systems (ESS) connected to a Pooling Substation and may be one of the Generators or a Company incorporated under the Companies Act 2013 as amended from time to time. And shall be treated as Intra State Entity for the purposes of Forecasting, Scheduling, Operational Coordination, Deviation Settlement for Renewable Energy as per CSERC Regulations or any other charges as per various regulations notified.

2.3 **Date of Commissioning (COD)**: The Distribution Licensee shall synchronize the system with the Distribution Grid post verification of the Work Completion Report, install meters and issue letter of synchronization and Date of Commissioning (COD) to the Applicant. For captive use/ third party sale, energy injected into the grid from the date of synchronization till the Open Access approval date will be considered as deemed energy banked banked in case of Solar Generator . For the purpose of this

provision, the Date of Synchronization shall be considered as Date of Commercial Operation (COD) as per the applicable norms of the respective Regulations.

2.4 **Connection Point**: A point at which Solar Park, Renewable Energy Generating Stations (REGS) which are State Entities are connected to Intra-State system.

2.5 "**Distributed Renewable Energy (DRE)**" means the electricity fed into the electric system at a voltage level of 132 KV and below using Solar PV System or such other forms of Renewable Sources as may be approved by the Commission from time to time or as recognized by the Ministry of New and Renewable Energy, Government of India; (CSERC GIDRES Regulations-2019).

2.6 **"Independent Distributed Renewable Energy System" or "IDRES"** means a Distributed Renewable Energy System set up by any person, connected to the Licensee's network or network of other person, selling electricity to the Distribution Licensee under a Power Purchase Agreement or selling electricity to any person under Open Access or having captive use; IDRES owner is a person who owns the IDRES plant;

3. Scope:-

3.1 This Procedure contains requirements of data submission by Renewable Energy Generating Stations (REGS) or Qualified Coordinating Agency (QCA) on behalf of Renewable Energy Generating Station(s) and Real Time and Scheduling methodology to be followed for multiple Renewable Energy Generating Station(s) connected at a Renewable Energy Generating Station Parks/Pooling Substations Pooling station.

3.2 The responsibility to provide forecast and other data and to coordinate with CGSLDC under this Procedure shall be that of QCA on behalf of all Generating Stations it is representing. Provided that where QCA is not identified, individual Renewable Energy Generating Stations or Lead Generator, as the case may be, shall be responsible for the same.

4. Effective Date:-

4.1 This Operating Procedure for Forecasting and Scheduling for Renewable Energy Generating Stations (REGS) Parks/ Pooling Substations shall be implemented with effect from the date of its notification by Hon'ble CSERC.

5. Eligibility Criteria:-

5.1 "**Renewable Energy Sources**" means Renewable sources such as Hydel, Wind, Solar, Biomass including Bagasse, Bio Fuel Cogeneration, Urban or Municipal Waste and such other sources as recognized or approved by MNRE;

5.1.1 "**Existing Biomass Project**" - For existing Biomass projects, which have achieved COD before 1st April 2012 and have Long Term PPA with Distribution Licensee for 20 years or more and whose tariff, i.e. Fixed charges determined in terms of Commission's order in Petition no. 22/2011 (T) and energy charges determined as per provisions in the CSERC (Terms and Conditions for determination of generation tariff and related matters for electricity generated by plants based on renewable energy sources), Regulations, 2022, in short, CSERC RE Regulations, 2022 and amended time to time or any new regulation issued by the Commission in this regard.

5.1.2 **Existing Biomass Project** - having Long Term PPA with Distribution Licensee for 20 years or more, which have achieved COD before 31st March 2022, and whose tariff i.e. Fixed charges determined in respective Tariff orders issued from time to time by the Commission for the duration of the Tariff period under CSERC RE Regulations, 2022 and energy charges determined as per provisions in the CSERC RE Regulation, 2022 and as amended from time to time or any new Regulations issued by commission in this regard.

5.1.3 "**New RE Project**" means the Renewable Energy project whose date of Commercial Operation shall be on or subsequent to April 01, 2022;

5.1.4 **Wind Power (WP) project**– All New wind power project(s) using new plant and machinery.

5.1.5 **Hydro project** -

i. Mini/ Micro/ Small Hydro project(s) located at the sites approved by State Nodal Agency/ State Government.

ii. Small Hydel Plant (SHP) means Hydel power station with an installed capacity 25 MW and below, which includes Mini Hydel and Micro Hydel plants.

iii. Large **Hydro Projects (LHP)** above 25MW which are commissioned after 08th March 2019.

5.1.6 **Non-fossil Fuel Based Co-Generation (NFCG) project** - Non-Fossil fuel based Cogeneration project(s) shall qualify to be termed as a non-fossil fuel based Cogeneration project.

5.1.7 **Solar PV (SPV) Solar** Thermal Power Projects, Solar rooftop PV systems and small Solar Power projects -Projects based on Technologies approved by MNRE.

5.1.8 **Municipal Solid Waste (MSW**) based-power projects–The project shall qualify to be termed as a Municipal Solid Waste based power project, if it is using new plant and machinery based on Rankine cycle technology and using Municipal solid waste as fuel sources.

5.1.9 **Refuse Derived Fuel (RDF)** based power projects–The project shall qualify to be termed as a Refuse Derived fuel based power project, if it is using new plant and machinery based on Rankine cycle technology and using Refuse derived fuel as fuel sources.

5.1.10 **Biogas based Power Project (BGPP)–** The project uses new plant and machinery and has a grid connected system that uses 100% Biogas fired engine, coupled with Biogas technology for Co-Digesting Agriculture Residues, Cow Dung, Poultry Waste, Manure and other Bio-waste as approved by MNRE.

6. Role of different entities

6.1 The QCA shall be appointed by RE Generators who may be one of the Generators or any mutually agreed Agency, Any Company or Body Corporate or Association or Body of Individuals, or Artificial Juridical Person incorporated/ registered under the Company Laws of India shall be eligible to act as a QCA. Provided it shall also satisfies the qualifying criteria as laid down hereunder:

6.1.1 The QCA shall have the experience of minimum Two (02) year in the field of RE Power Forecasting and Scheduling;

6.1.2 The Financial strength of the QCA must be such that it should be in a position to handle the risk of penalties on account of deviation/s by the Generator.

6.1.3 The Minimum Annual Average Turnover (**MAAT**) of the QCA must be Rs.2.5

Crores or 10% of the Project cost of the Pooled Partners whichever is more, in consecutive Three (03) year from last Five (05) years. The recent/ last financial year should reflect from its audited Balance Sheet or from the certificate of a practicing Chartered Accountant.

6.1.4 The QCA shall have the capability to provide Real Time Monitoring (RTM) systems or equivalent systems for seamless flow of information to and from CGSLDC and RLDC in order to facilitate Scheduling, Revision of Schedule, and intimation of Outages / Grid Constraints etc.

6.1.5 QCA should have an established team of Renewable Resource Analysts, Modeling Statisticians, Energy Modeler, Software Developers and 24x7 Operation and Monitoring team.

6.1.6 The QCA shall be using software developed by at least CMMI Level 3 certified companies or as decided by CGSLDC or CSERC from time to time. Provided that when a Generator carries out Forecasting and Scheduling activity for itself, it need not avail the services of QCA and as such will be exempted from the qualifying criteria of QCA.

6.1.7 The QCA shall get registered with the CGSLDC.

6.1.8 The QCA shall, on behalf of wind, solar or renewable hybrid generating stations or Energy Storage System have Valid Contracts with the Pooling Generating Partners.

6.1.9 Contract between the Generating Stations and QCA shall invariably contain provisions for internal dispute resolution, and any disputes arising between the generating stations and QCA shall be settled in accordance with the said mechanism.

7. Applicability of the Procedure:-

7.1 This Procedure shall be applicable to Renewable Energy (RE) Generators as detailed in Section (5) above, with individual capacity of 100 KW and above connected to the State Transmission System or Distribution System or those connected to Renewable Energy Generating Stations (REGS) Parks/ Pooling Substations to the State Transmission System or Distribution System with combined capacity of 100 KW and above, supplying power to the Distribution Company(ies) or to the Third Party

through Open Access or for Captive consumption through Open Access within or outside the State.

7.2 There shall not be any Hybrid model in QCA aggregation. For example, if any particular Pooling Substation has Solar RE Generators connected to it, then there shall be no other type of RE Generators such as Wind or Hydel or Biogas etc. connected. Also the aggregation of scheduling of different Pooling Stations shall not be permitted. In case QCA undertake works of more than one pooling stations then all commercial matters have to be settled individually in case of aggregation of scheduling of more than one pooling stations.

7.3 **Lead Generator/ Principal Generator (LP/ PG)** :- One of the Generating stations using Renewable Sources of Energy, individually having less than 100 KW Installed Capacity, but collectively having an aggregate Installed Capacity of 100 KW and above, and acting on behalf of all these Generating Stations, and seeking connection from STU or State Distribution System at a single connection point at the Pooling Sub-Station within the Solar or Wind power park, termed as the Lead Generator/ Principal Generator. Lead Generator/ Principal Generator shall formalize a written agreement/ arrangement among all the Associated Generators to undertake all Operational and Commercial responsibilities for the Renewable Energy Generating Station(s) in following the various provisions of prevailing CSERC Regulations, as amended from time to time, such as Grid Security, Scheduling and Dispatch, Collection and Payment/ Adjustment of Transmission Charges, Deviation Charges, Congestion and other charges etc. Any methodology as agreed or devised between the Generators and the QCA needs to be well documented during the agreement signing period and the same shall be applicable to all the individual generators connected to that pooling stations. The copy of agreement has to be provided to SLDC and CSPDCL after signing of agreement before initiating scheduling procedure by QCA. All the individual generators shall be obligated to follow the same procedure or opted mechanism of payment of disbursement.

7.4 **Pooling Partners/ Individual Generators (**PP/ IP):- The Pooling Partners/ Individual Generators connected with the Pooling Substation and mapped in the aggregation of QCA shall be separate legal entity as per Indian laws enforced time to time. These Pooling Partners/ Aggregate Generators/ Individual Generators shall also be registered/ enrolled with CGSLDC. The format of the Registration/ Enrollment as

FORMAT-A should be appended with the QCA applications for Forecasting and Scheduling with CGSLDC.

8. Qualifying criteria for QCA:-

8.1 Qualified Coordinating Agency (QCA) or Renewable Energy Generating Station (REGS) or Lead Generator or Principal Generator

8.1.1 The QCA shall have coordination centres functioning round the clock, manned by qualified personnel for Operational coordination with the State Load Despatch Centres and Generating Stations and CSPDCL.

8.1.2 The individual Generating Station or Lead Generator shall submit one time details to CGSLDC as per **ANNEXURE-IA/ IB.** Further, if there is any change in the information furnished, then the updated information shall be shared with CGSLDC not later than Seven (07) working days of such change.

8.1.3 QCA (for the REGSs it is representing) or REGS (who are not represented through QCA) or Lead Generator shall undertake in the Format as **ANNEXURE-II** the following activities:

i. QCA or Lead Generator (for Generating Stations it is representing) shall undertake technical coordination amongst the Generators it is representing, connected at a Pooling Station.

ii. Provide Forecast Capacity, Day Ahead Forecast and Schedule as per **ANNEXURE-III**, through web-based application maintained by CGSLDC.

iii. Provide Real Time data at Turbine/ Inverter level and Generation data at Pooling station level as per **ANNEXURE-IC.**

iv. Provide monthly data:

a. For Wind Plants- Average Wind Speed, Average Power Generation for 15-min time block for each turbine

b. For Solar Plants – Average Solar Irradiation, Average Power Generation at 15-min time block level for all inverters* >=1 MW

* if a Solar Plant uses only Smaller String Inverters, then data may be provided at the plant level

v. Be responsible for Metering and Data collection, Transmission and co-ordination with CGSLDC, STU and CSPDCL and other agencies as per prevailing CSERC Regulations.

vi. Undertake Commercial Settlement for Deviation as per applicable CSERC Regulations.

vii. Submit a copy of the consent to the CGSLDC wherein it is mentioned that QCA shall undertake all Operational and Commercial responsibilities on behalf of Generating Stations as per the CSERC Regulations.

viii. Use Automatic Meter Reading (AMR) technologies for transfer, analysis and processing of interface meter data.

ix. Shall furnish the contract rate(s) along with a copy of the contract(s), for the purpose of State Deviation Settlement Account, preparation by CG SLDC, as per CSERC regulations.

x. Shall comply the instruction of respective CGSLDC in normal operation as well as emergency condition.

xi. Shall establish protocol for communication with individual Generators to implement the instructions of CGSLDC effectively.

xii. Shall maintain records and accounts of the Time-Block wise Schedules, the Actual Generation injected and the deviation, for the Pooling Station and Individual Generator(s) separately.

xiii. Shall ensure availability of Data telemetry at the Turbine/ Inverter level to the CGSLDC SCADA and shall ensure the correctness of the Real-Time data and undertake the corrective actions, if required the lead generator/QCA. The suggested Data Telemetry requirement is enclosed at **Annexure-VII**.

xiv. Keep CGSLDC indemnified at all times and shall undertake to indemnify, defend and save the SLDC/ STU/ CSPDCL harmless from any and all damages, losses including Commercial Losses due to forecasting error, claims and actions including those relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the transactions undertaken by the Generator(s).

8.1.4 The concerned Wind, Solar or Renewable Hybrid Generating Stations including Energy Storage Systems shall indemnify the CGSLDC for any act of commission or omission on the part of QCA including compliance with the Grid Code and settlement of its financial liability in the pooled account.

8.1.5 QCA may be one of the Generator/s or any other Mutually Agreed Agency for the following purposes:

i. Provide schedules with periodic revisions as per these Regulations on behalf of all the RE Generators connected to the Pooling Station(s) or individual RE Generator connected directly to the Sub-Station of Transmission Licensee/ State Transmission Licensee/ Distribution Licensee/ Transmission Licensee Network/ Distribution Licensee Network

ii. Responsible for co-ordination with authorized agency DISCOM/ STU/ CG SLDC and other agencies in coordination with Generator / Developers for Metering, Data collection and its Transmission and Communication.

iii. Provide the Actual Generation (Generator wise) in MW (15 minute Time block) and MU for the previous day latest by 08AM of Current Day.

iv. Undertake Commercial Settlement of Deviation Charges arising on account of Forecasting/ Scheduling on behalf of the individual Generators which is connected directly to substation of Transmission Licensee / State Transmission Licensee

v. Distribution Licensee/ Transmission Licensee Network/ Distribution Licensee Network or Generators connected with Pooling station, including payments to the State Pool Account through CGSLDC.

vi. Undertake de-pooling of payments Received/ Payable on behalf of the Individual Generator/ Generators of the Pooling Station from the State Pool Account and settling them with the Individual Generators.

vii. Undertake Commercial Settlement of any other charges on behalf of the generators as may be mandated from time to time. Failure of QCA in carrying out above activities shall not relieve the Generators/ Developers from the penalties etc. provided in these Regulations. QCA shall be treated as a Forecasting and Scheduling Entity and will be the single point of contact with CGSLDC.

viii. On De-pooling/ De-clutching of PP/ IP Generator QCA shall bear all the liabilities.

8.1.6 Any change in the Pooling arrangement shall be informed by QCA immediately to CGSLDC. And make necessary application to bring it to effect. All such cases/ Applications shall be treated as fresh applications.

8.2 Chhattisgarh State Load Despatch Center (CGSLDC):-

8.2.1 The CGSLDC shall develop a web-based Software for use by QCA with login and password facility for:

i. Online registration/de-registration of QCA.
ii. Online registration/ enrolment of PP/ IP.
iii. Uploading of Day ahead and Week ahead Generation Forecasts
iv. Uploading of the revisions in Schedules in accordance with these Procedures and Regulations.
v. Communication of Grid Constraints and curtailments if any.
vi. Mechanism for Monitoring Deviations in Scheduled & Actual Generation along with commercial impact for CG SLDC and QCA's along with acquisition of Meter Reading of all the Nodes in the State for calculation of Deviations and Charges thereof.

8.2.2 The CGSLDC shall be responsible for Scheduling, Communication, coordination with QCA or Generating Station or Lead Generator.

8.2.3 The CGSLDC will be responsible for processing the interface meter data and computing the net injections at Pooling Station represented by each QCA or REGS or Lead Generator, as the case may be, as specified.

8.2.4 The CGSLDC shall maintain records and accounts of the Time Block-wise Schedules, the Actual Generation injected and the deviations, for the Pooling Sub-Station and the Individual Generators separately and shall prepare Scheduled Energy Account (SEA) on monthly basis.

8.2.5 The CG SLDC shall maintain State Deviation Settlement Account for above as per prevailing CSERC regulations.

8.2.6 The Intra State User shall ensure proper telemetering, accessibility by express communication, so that Grid inter-connectivity data is made available to all concerned. (CSEGC 4.4(23)).

8.2.7 The CG SLDC shall be keeping account of the energy injected into the Grid.

8.2.8 The CG SLDC shall Issue the RECB.

9. Mandatory Requirement before applying for Scheduling in CG SLDC WBES:-

9.1 All entities, such as Licensees, Generating Stations, STU, QCAs, SNAs, and other Grid connected entities shall at all times function in coordination to ensure integrity, stability and resilience of the grid and achieve economy and efficiency in the operation of power system.

9.2 QCA or RE Generating Station or Lead Generator shall get registered in CGSLDC as per CSERC (Terms and Conditions for determination of Tariff according to Multi- Year Tariff principles and Methodology and Procedure for determination of Expected Revenue from Tariff and Charges) Regulations, 2021 any amendment made their in or any new regulations introduced from time to time.

9.3 QCA or RE generating station or Lead Generator shall avail necessary Intra-State STOA/ MTOA/ LTA and as per the provisions governed by CSERC (Connectivity & Intra-State Open Access) Regulations, 2011, as amended from time to time; or necessary Inter-State STOA/ MTOA/ LTA as per the provisions governed by CERC (Open Access in Inter-State Transmission) Regulations, 2008, as amended from time to time.

9.4 All users inclusive QCAs shall have in place, a cyber security framework including conduction of Cyber Security Audit in accordance with Information Technology Act, 2000; CEA (Technical Standards for Connectivity) Regulations, 2007; CEA (Cyber Security in Power Sector) Guidelines, 2021 and any such regulations issued from time to time, by an appropriate authority, so as to support reliable operation of the Grid.

10. Forecast Capacity (FoC):

10.1 It is mandatory for a Stand-Alone Generator/ QCA to declare the block wise FoC for Generator/ Pooling Station. The FoC shall be declared on Day Ahead basis and can be revised during the submission of Intra-day schedules.

10.2 The Forecast Capacity (FoC) for a Wind Generating Plant shall be applicable for the entire 24 hours in a day. Whereas considering the availability of Solar Irradiation only during the day, the FoC for Solar Generating Plants shall be applicable only between 08:00 AM till 04:00 PM or as approved by CSERC or as specified in the relevant Regulations.

10.3 Forecast Capacity (FoC) is the cumulative capacity rating of the Wind Turbines/ Solar Inverters that are capable of Generating Power in a given time-block.

10.4 FoC would be equal to the Installed Capacity, unless one or more Turbines/ Inverters are under maintenance or shutdown.

10.5 Any attempt at mis-declaration, that is declaration of capacity when it is actually not available due to reasons of maintenance or shutdown etc would be treated as 'Gaming' and would be liable to action under appropriate provisions of the Act or the Regulations.

10.6 **Forecast Error**: Permissible Forecast Error may be indicated wherever the same is applicable. However, the same shall mean the value of the error in the Scheduled Generation of Wind or Solar generators entities with reference to the Actual Injection (Generation) and the Scheduled Generation' (SG), as calculated using the following formula for each 15 minute time block or as determined by CSERC time to time :

$$\textbf{Forecast Error (\%)} = \frac{\textbf{100 X (Schedule Generation - Actual Injection)}}{\textbf{Scheduled Generation.}}$$

SECTION-II: REGISTRATION PROCEDURE

11. SLDC fees & Charges:-

11.1 "**Fees**" means the one-time or annual fixed payments collected by the CGSLDC on its behalf or any other account as specified by the Commission from time to time;

11.2 Levy of fees and charges Collection

11.2.1 CGSLDC shall collect the fees and charges, as determined under CSERC MYT regulations.

11.2.2 CGSLDC shall be permitted to levy and collect fees and charges from the Generating Companies, Licensees, and Power Exchanges as specified in any other regulations.

11.2.3 CGSLDC shall levy and collect Registration fees from the Generating Companies and Licensees as specified in the CSERC MYT Regulation. Registration fees shall not be levied and collected from those to whom CSERC MYT Regulations 2 do not apply.

11.2.4 Any Stand-Alone Generators or any Generating Stations covered under Section 63 and excursing as Ancillary services who avail services of CGSLDC for Scheduling, Energy Metering or Accounting for the purpose of supply of its power to a Licensee and/or Consumers or Renewable Energy Certificates or any other such purposes as may be mandated by the Commission from time to time shall be required to pay Fee & Charges as specified under this Regulation. (CSERC MYT REGULATIONS – 102 (b) read along with 102/CSERC/2023 w.e.f. 01.04.2023).

11.3 Levy of Registration fees :- As specified in the CSERC (Fees and charges of State Load Dispatch Centre and other related matters) Regulation 2012, MYT Regulation 2021 and,:-

11.3.1 The Grid connectivity for the Renewable Power Plant of the Installed Capacity above 1 MW shall be required to register their Power Generating Stations with CGSLDC on payment of Rs. 2 lakh. The Renewable Energy based Power Generating company shall have to submit a certificate of eligibility as a

Renewable Energy Generating Plant duly certified by the State Nodal agency i.e. Chhattisgarh Renewable Energy Development Agency (CREDA).

11.3.2 Provided, that the stand-alone generators who avail services of CGSLDC for energy metering or accounting for the purpose of RE Certificates or any other such purposes as may be mandated by the Commission from time to time shall also be required to get registered with the CGSLDC. The fee in such cases shall be Rs. 1 lakh irrespective of the Installed Capacity of the plant.

11.3.3 The Registration charges applicable for 1MW and below shall be as per the registration fees of Rs. 1000/- specified for Roof Top Solar Plants in Suo-Motu P No. 37 of 2018 (M) dtd 05 July, 2018.

11.3.4 The Registration of the RE **Pooling Partners/ Individual Generators (**PP/ IP) independently shall be valid for the period of ten (10) years and renewal of registration shall be done in manner as specified above and on payment of fees and charges as decided by Commission time to time."

11.3.5 Application is to be made in **ANNEXURE-I** format as specified Appendix-V to CSERC MYT regulations.

11.3.6 The Registration of the **Qualified Coordinating Agency (QCA) or Renewable Energy Generating Station or Lead Generator or Principal Generator (LP/ PG) under these procedures** shall be valid only for the period of Three (03) years. The QCA /LG /PG has to make application with CGSLDC in the format prescribed herein as **Format-A** alongwith non-refundable one time Fees of Rs Three (03) lakhs or as decided by Commission time to time. The Registration shall be renewed thereafter for a period of 3 years and concerned entity shall initiate the process of renewal of registration at least 1 month in advance, to avoid any discontinuity.

11.3.7 CGSLDC shall collect the fees and charges for the RE Certificate Banking (in short RECB) in the manner as specified by the commission for the REC purposes. Or as determined under CSERC MYT regulations.

SECTION-III; OPEN ACCESS

12. CSOAR:

QCA or RE generating station or Lead Generator shall avail necessary Intra-State STOA/ MTOA/ LTA and as per the provisions governed by CSERC (Connectivity & Intra-State Open Access) Regulations, 2011, as amended from time to time; or necessary Inter-State STOA/ MTOA/ LTA as per the provisions governed by CERC (Open Access in Inter-State Transmission) Regulations, 2008, as amended from time to time.

12.1 Priority for Grid Connectivity: Any person Generating electricity from Renewable Energy sources, irrespective of Installed Capacity, shall have priority for Open Access, Connectivity with Distribution System or Transmission System as the case may be.

12.2 On an application from such person, the Transmission Licensee or Distribution Licensee, as the case may be, shall provide appropriate interconnection facilities, as far as feasible, before commissioning of the Renewable Energy project.

12.3 Such interconnection shall follow the Grid Connectivity Standards as specified in the Indian Standard Grid Code, State Grid Code and/or the manner prescribed by the Central Electricity Authority.

12.4 The appropriate Licensee shall inform the concerned State Transmission Utility within thirty (30) days of acceptance of application for connectivity of a Generating Station to electricity system operating at voltage level below 33 KV. The concerned State Transmission Utility shall in turn inform the State Load Despatch Centre with details of installed capacity, Generator capabilities, connectivity and likely date of commissioning or Date of Commercial Operation.

13. GOAR

Procedure for Grant of Green Energy Open Access Prepared in Compliance to Ministry of Power Electricity (Promoting Renewable Energy through Green Energy Open Access) Rules, 2022 and Subsequent to Electricity (Promoting Renewable Energy through Green Energy Open Access) Rules, 2023

13.1 Procedure for grant of Green Energy Open Access in accordance with GOAR portal Applicability and Scope of the Procedures:

13.1.1 This procedure is in accordance with the clause 7.1 of the Electricity (Promoting Renewable Energy through Green Energy Open Access) Rules, 2022 and amendment thereof notified by Ministry of Power, hereby referred as "Rules".

13.1.2 Under these Rules **Central Nodal Agency (CNA)** for Green Energy Open Access (GOAR) shall be designated by Ministry of Power. POSOCO has been designated as the Central Nodal Agency (CNA) vide extra ordinary Gazette dated 08th July, 2022.

13.1.3 The procedures shall apply for registration and applications made for grant of Green Energy Open Access by availing Long Term Access, Medium Term Open Access, and Short-Term Open Access, as the case may be, at Interstate and Intrastate level for the use of the transmission lines or associated facilities with such lines.

13.1.4 All information related to approvals, rejections, revisions, curtailment etc. shall be made available to the respective participants through the web-based portal for Green Energy Open Access which shall act as a central registry.

13.1.5 GOAR portal is the single window portal to register and apply for the Green Energy Open Access.

13.1.6 The rules will be applicable for all types of Renewable Energy sources as may be notified by the Government of India from time to time and shall also include any mechanism that utilizes green energy to replace fossil fuels including production of Green Hydrogen or Green Ammonia.

14. Role of State Load Despatch Centre (SLDC):

14.1.1 The concerned SLDC shall be the Nodal Agency for Registration of the Intra State Entities intending to avail Intra state Or Inter-state Green Energy Open Access.

14.1.2 The Nodal Agency shall provide Standing Clearance/ concurrence for the Intra State entities intending to avail Intrastate or Interstate Green Energy Open Access.

14.1.3 The Nodal Agency shall process Bilateral Short Term Green Energy Open Access applications at Intra State level where the point of injection and drawal both are located within the control area jurisdiction of the Nodal Agency. The Nodal SLDC shall process the Registration and the Bilateral Short Term Green Energy Open Access applications in accordance with the Green Energy Open Access 2022 and the extant CSERC Regulations and Procedures there under.

14.1.4 The Nodal Agency shall process the applications for availing Interstate Green Energy Open Access as per the extant Rules and CERC Regulations.

14.1.5 All the information pertaining to registration and processing of application shall be updated by the Nodal Agency on the Green Energy Open Access Portal.

15. Registration of OA applications on GOAR Portal:

An application for availing Green Energy Open Access can be made through the portal only by the Registered Entities with CGSLDC. An application for OA registration shall be made on the GOAR portal as per the following: -

15.1.1 Applicant shall set a username and password which would be used by the applicant for all activities to be carried out through the Green Energy Open Access portal.

15.1.2 Applicant shall furnish the details as per **FORMAT-A** for the purpose of registration with CGSLDC and the Central Nodal Agency (CNA).

15.1.3 The applicant shall e-verify all details and submit the filled in application in the GOAR portal.

15.1.4 The Grid connected entities shall be able to make an application for seeking Green Energy Open Access, only after the Registration process is complete in all respects.

15.1.5 In case of Intra State Entity, the application will be processed by the concerned SLDC and in case of a Regional Entity; the application for Registration shall be processed by the concerned RLDC. Concerned SLDC/ RLDC shall process the applications of Entities within 7 working days for new applications and within 3 working days for renewal of Registration through the GOAR portal.

15.1.6 In case Intra State entity is a repeat application, the concerned SLDC shall process and recommend the applications of Intra State entities within 5 working days for repeat applications and within 2 working days for renewal of registration through the GOAR portal.

15.1.7 CNA (Central Nodal Agency) shall process the applications for Registration for Interstate electricity Trader and Power Exchanges, applying on behalf of Grid connected entities, within 7 working days for new applications for registrations and within 3 working days for renewal of registration through the portal.

15.1.8 After the receipt of application for registration, respective Nodal Agency, as the case may be, shall conduct a preliminary scrutiny to ensure application is complete in all respects. In case of any discrepancy/ short coming / requirement of any further information, the concern nodal agency shall intimate the applicant through the portal for rectification of the deficiency within a period of 2 working days. In case the applicant does not respond within a period of 2 working days with the required details to the concerned nodal agency, the registration request shall be disposed of.

15.1.9 In case of any change in the information provided by the Applicant it shall be incumbent upon the Applicant to update the information in the portal.

15.1.10 If the SLDC, has not communicated any deficiency or refusal of registration, after receipt of application complete in all respects within the specified period of Seven (07) working days for new application and three (03) working days for renewal, from the date of application, as the case may be, the registration will be automatically forwarded to the respective RLDC for the review and processing.

15.1.11 The Open Access Customer shall ensure that all details are correct, failing which, the Registration may be cancelled/denied by the concerned nodal agency.

16. GOAR (STOA) - accordance with GOAR portal for Renewable Energy Sources Submission of Application

16.1 For availing Green Energy Open Access Eligible Entity to have Contracted Demand or sanctioned load of 100 KW or more through single connection or

through multiple connections in same electricity division of a distribution licensee. Captive Consumers have no minimum load restrictions.

16.2 The application for availing Green Energy Open Access shall furnish the details as per **FORMAT -B1/B2/B3** as applicable.

16.3 The concerned Nodal Agency shall approve the applications for the Green Energy Open Access within a period of fifteen days from the date of application, failing which it shall be deemed to have been approved subject to the fulfilment of the technical requirements as specified by the appropriate Commission.

16.4 The order of processing of applications for Green Energy Open Access shall be first in first out.

16.5 The Short Term and Medium Term Open Access shall be allowed, if there is sufficient spare capacity available in the transmission system without any augmentation whereas for Long Term Open Access, the Transmission System may be augmented, if required.

16.6 Priority of processing of applications shall be given to the Long Term Customers in the existing system if spare capacity is available and further, Open Access for non-fossil fuel sources shall be given priority over the Open Access from the fossil fuel by CTU/ STU as the case may be.

16.7 No application for Open Access shall be denied unless the applicant has been given an opportunity of being heard in the matter and all orders denying Open Access shall be speaking orders by the Nodal Agency.

Note: Procedure for Open Access through Bilateral Transaction/ Collective Transaction, Power Exchange shall be as per the CSERC/CERC STOA Regulation or concerned applicable regulation of CSERC/CERC as the case may be.

SECTION-IV: FORECASTING & SCHEDULING PROCEDURE

17. Dispatch Principles for electricity Generation from Renewable Energy Sources

17.1 All Renewable Energy Power Plants shall be treated as 'MUST RUN' power plants and shall not be subjected to 'Merit Order Despatch' principles.

17.2 Not with standing anything contained in any regulation framed under the Electricity Act 2003, all Renewable Energy Power Plants shall treated as RE (Uncontrollable) or RE (Controllable). Wherein RE Uncontrollable Generators are Solar, Wind, Small Mini Micro Hydro, PSHP, and SHP. And RE controllable Generators are such as Bagasse, Biomass, Municipal Waste including Energy Storage System (ESS) viz Battery Storage.

17.3 Generally the Hydel Generators even Run of the River (RoR) falls under the category of 'Controllable" Generator; unless otherwise under the Hi-inflow State the Run of the River (RoR)/ Hydel Station shall submit their SOS message to SLDC duly supported by the Forecast information made by the Meteorological Department, acknowledged by Water Resource Department (WRD) for downstream management.

17.4 RE Generators except Biomass Power Generating Station and Non-Fossil Fuel based Co-Generation projects shall not be subjected to Scheduling and Deviation settlement. Provided that in case of supply of power to multiple beneficiaries within the State, Scheduling and Deviation Settlement shall be applicable for Solar PV Power Projects and Wind Power Projects also.

17.5 Scheduling of Banked Energy is not permitted.

17.6 Except Scheduling in Day Ahead Market (DAM) or Same Day / Real Time Market (RTM) all the Advance Scheduling shall be preferably reckoned from beginning of week i.e. 'Monday' so as to match with DSM timeline.

18. Auxiliary Consumption:-

18.1 The Auxiliary Consumption factor shall be 0.25% of Gross Generation. Provided that the Commission may deviate from the above norm in case of project specific tariff determination in pursuance for Solar Thermal Power Projects.

18.2 The auxiliary consumption factor shall be 10%. Provided that the Commission may deviate from the above norm in case of project specific tariff determination in

pursuance of Regulation 7 and Regulation 8for MSW and RDF Projects based on Rankine Cycle Technology.

18.3 The auxiliary power consumption for the power projects which use municipal solid waste and refuse derived fuel shall be l5%.

19. Forecasting & Scheduling Procedure:-

19.1 QCA or Generating Station or Lead Generator shall provide the Forecast to CG SLDC as per **ANNEXURE-IV**.

19.2 QCA or Generating Station or Lead Generator may prepare their schedule based their own forecast. Any commercial impact on account of deviation from schedule based on the forecast chosen by the QCA shall be borne by the respective QCA.

19.3 Every Wind and Solar Generator or a QCA shall submit a day ahead and week ahead schedule for each Generating Station or each Pooling Station on Ex-Bus basis, as the case may be (**ANNEXURE-III/IV**) in line with the provisions of State Grid Code. Day ahead schedule shall contain wind or solar energy generation schedule at intervals of fifteen (15) minutes time-block for next day, starting from 00.00 hours of the day and prepared for all ninety six (96) Time Blocks of the day. Week-ahead schedule shall contain the same information for next seven days. The week will commence from Monday.

19.4 The Forecast/ Schedules shall be in MW up three Decimal places. The fourth Decimal place shall be rounded off to 3rd Decimal place as per standard practice. Deviation Volume and Value shall be calculated accordingly.

19.5 The QCA may revise Pooling Sub Station schedule for the InSTS (excluding collective and Inter-State Bi-Lateral transactions) by giving advance notice to the CG SLDC;

19.6 Provided that, such revisions shall be effective from the fourth (4th) Time Block following the time block in which notice was given **(ANNEXURE-V)**.

19.7 Provided further that, there may be one (01) revision for each time slot of one and half hours starting from 00:00 hours of a particular day, subject to a maximum of sixteen (16) revisions during the day.

19.8 Process for submission of a day ahead Forecast for Intra-State Transactions shall be as per the provisions of State Grid Code read with the provisions of the Regulations.

19.9 It shall be incumbent upon the RE Generator or QCA as the case may be to Schedule Plant Capabilities faithfully, i.e., according to their best assessment. Any intentional mis-declaration of Forecast Capacity or schedule to the SLDC for its own undue commercial gain through deviation charges or that of a generator shall be considered as 'Gaming' and shall be liable to action under appropriate provisions of the Act or the Regulations.

19.10 The Schedules provided by the QCA/ Generator(s) shall be accepted by SLDC without any revision (being MUST-RUN Generating Stations) except in case of Real Time curtailment Such schedules in respect of all RE Generators shall be collectively uploaded on CG SLDC website.

19.11 The Revision No. shall start from -1 (for first AvC/ Schedule to be submitted by 10:00 Hrs of preceding day as per the provisions of State Grid Code) and will be increased step-by-step as 0, 1, 2, 3……n (for subsequent revisions), subject to the condition that QCA/ Generator(s) may inform the modifications / changes to be made, if any, in the AvC/ Schedule to SLDC latest by 21:30 hours of preceding day as per the provisions of State Grid Code.

19.12 Process for submission of a Day Ahead Forecast for Intra-State Transactions is as follows:-

19.12.1 Forecasting shall be done by RE Generators connected to the State Grid, or by QCAs on their behalf. The forecast by the QCA or Wind and Solar Generator, as the case may be, shall be Generator centric with intimation to SLDC containing the availability of WTGs/Solar generators based schedule for each Pooling Station separately.

19.12.2 SLDC shall also Undertake Forecasting of RE power that is expected to be injected into the State Grid. The forecast by the SLDC shall be with the objective of ensuring secure Grid Operation by planning for the requisite balancing resources and Grid operation.

19.12.3 The QCA or RE Generator/ Generators may either derive its forecast based on the SLDC's forecast for preparing its schedule or provide the SLDC with a schedule based on their own forecast. However, if the Generator(s)/QCA derive its schedule based on SLDC's forecast, they shall not take a plea that the error is due to erroneous forecast by SLDC.

19.12.4 The QCA or Individual Generator, either injecting Wind Energy, Solar Energy or both, connected to a substation shall not be permitted aggregation of more

than one Pooling Stations or Individual Generating Station connected to a substation as the case may be.

19.12.5 The QCA shall co-ordinate the aggregation of schedules of all Generators connected to a Pooling Station and communicate it to the SLDC. In case of the Generators who are directly connected to the Sub-station, such Generators or the QCA appointed/nominated by such Generators shall communicate their schedule at interface I interconnection point to the SLDC.

19.12.6 In case of QCA/Lead Generator appointed by Renewable Energy Generator for forecasting and scheduling work, the QCA/Lead generator shall be responsible for the deviation charges payable on behalf of the generator. The Individual Generator and QCA/Lead Generator shall execute an agreement specifying that the QCA/Lead Generator shall be responsible for all obligations/ liabilities arising out of the forecasting and scheduling work carried out by him on behalf of the renewable energy generator. The QCA/Lead Generator shall provide payment security to the extent of 110% against Deviation Charges in the form of Bank Guarantee / Revolving LC as per prevailing CSERC Regulations. The QCA/Lead Generator may ensure similar payment security mechanism back to back with respective generators.

QCA to submit separate generating station/ Pooling Station wise day ahead Forecast/ Schedule & Available Capacity (AVC) on 15 min time block basis, in line with the provisions of the regulations/ State Grid Code	By 10:00 Hrs.
↓	
SLDC to accept schedule submitted by QCA without any change, except in case of contingency, where schedule shall be curtailed by SLDC accordingly.	By 15:00 Hrs.
↓	
QCA to upload revised day ahead. Schedules & Available Capacity (AvC) on 15 min time block basis, if any, in line with the provisions of the regulations/ State Grid Code	By 21:30 Hrs.
↓	
SLDC to accept separate Generating Station/ Pooling Station wise Final Schedule as received from QCA provided that in case of any contingency, schedules shall be curtailed by SLDC and published accordingly State Grid Code	By 23:00 Hrs.

Note: No revision in Forecast shall be accepted after 21:30 Hrs.

19.13 The last/ final (nth) revision shall be considered as Implemented schedule by SLDC for preparation of State Energy Account (SEA) & Deviation Account.

19.14 In case the Schedule of a Generator/QCA for the next day is not received by the specified time, SLDC shall prepare the same on its behalf based on the previous day Schedule/ Net Quantum tied-up for injection under PPA.

19.15 In the event of Contingencies, Transmission Constraints, Congestion in Network, threat to System Security, the transaction of RE Generators already scheduled by SLDC may be curtailed as per the provisions of State Grid Code for ensuring secure and reliable system operation **(ANNEXURE-VI)**.

19.16 Keeping in view of the MUST RUN status of RE Generators, if required to relieve Congestions CG SLDC shall be following the following sequence in issuing the Backing Down Instructions (BDIs) if any–

- LTA ->MTOA ->STOA (Bilateral) then
- LTA ->MTOA ->STOA (Collective) then
- RE (Controllable) and
- RE (Uncontrollable).
- Or otherwise, SLDC may curtail as per the provisions of State Grid Code for ensuring secure and reliable system operation.

19.17 If, at any point of time, SLDC observes that there is need for revision of the Schedules in the interest of better system operation, it may do so on its own and in such cases, the revised schedules shall become effective from the 4th time block, counting the time block in which the revised schedule is issued by SLDC to be the first one.

19.18 Lead Generator/ QCA/ whenever intimates SLDC about the plant generation outages due to Force Majeure or for any other reason the QCA/ Lead Generator needs to revise the Schedule as per the curtailment proposed.

19.19 The QCA/ Lead Generator shall have the Backing Down Instructions certified from SLDC for any generation by the RE generator.

19.20 To discourage frivolous revisions, SLDC may, at its sole discretion, refuse to accept requisition schedule/ availability changes of less than two (2) percent of previous schedule/ availability.

19.21 In case of any Grid Disturbance, the Schedule Generation of all the Generating Stations and Schedule Drawl of the DISCOM shall be deemed to have been

revised to be equal to their Actual Generation/Drawl for all the time blocks affected by the Grid Disturbance and its duration shall be done by SLDC.

19.22 Generation Schedules and Drawal Schedules issued/revised by SLDC shall become effective from designated time block irrespective of communication success.

19.23 In the event of loss of communication with SLDC each generating plants shall continue to operate in accordance with the last dispatch instruction issued by SLDC, but shall use all reasonable endeavours to maintain the system frequency between safe operating band as per IEGC, 2023 until such time the new dispatch instructions are received from SLDC. [The National Reference Frequency shall be 50.000 Hz and the allowable band of frequency shall be 49.900-50.050 Hz].

19.24 RE Generators shall promptly inform SLDC of the tripping of a Generating Unit, with reasons & shall submit a more detailed report of Generating Unit tripping to SLDC and CSPDCL/ CSPTCL on monthly basis.

19.25 In event of tripping of evacuating Substation path, the last injection/ schedule shall be considered with forecast and schedule of similar day forecast figure and considered as deemed injection/ schedule for the affected time blocks. For this the affected User/ Entity has to represent the event with due authorisation/ certifications of the connected Substation Agency/ Authority on SLDC website https://web.sldccg.com/ module name "**33KV Schedule_Revised_GD**"

19.26 In case of State Deviation Settlement Account is being prepared by CG SLDC as per the extant CSERC regulations, CG SLDC shall carry out Scheduling and Accounting for Pooling Station as a whole and the QCA shall De-Pool the Deviation charges among respective generators separately based on the provisions of the CSERC Regulations. However, in case of Intra and Inter-State transactions, separate feeder wise forecast (for Intra& Inter-State) shall be submitted by the QCA/ Stand-Alone Generator. In such case, CG SLDC shall separately schedule the power accordingly.

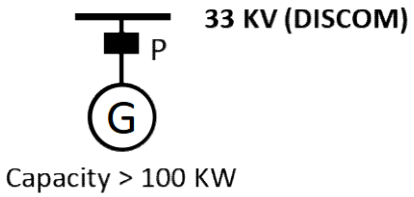
19.27 The Final/ Implemented Schedules issued by SLDC shall be open to all Users for any checking/ verification, for a period of 3 days. In case any mistake / omission is detected by CG SLDC or pointed out by User (QCA/Generator/STU/CSPDCL), the CG SLDC shall forthwith make a complete check and rectify the same, if required.

19.28 The various cases indicating point of Forecast and Scheduling are as follows:-

Inter-connection at Distribution Level:

Case - 1:

Single Generator or group of generators having capacity above 100 kW connected at 33 kV level of DISCOM's Pooling Sub-Station, selling power within the State:



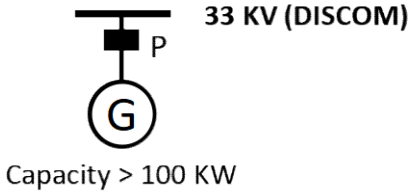
In this case, the Forecasting shall be provided by the QCA at Point 'P'. Scheduling and Accounting shall be done by CGSLDC at Point 'P'.

The Distribution losses as approved by Hon'ble CSERC shall be applicable.

The QCA shall De-Pool the deviation charges among respective Generators separately based on the mechanism developed within themselves based on the provisions of the CSERC Regulations.

Case - 2:

Single Generator or group of Generators having capacity above 100 kW connected at 33 kV level of DISCOM Pooling Sub-Station, selling power outside the State:



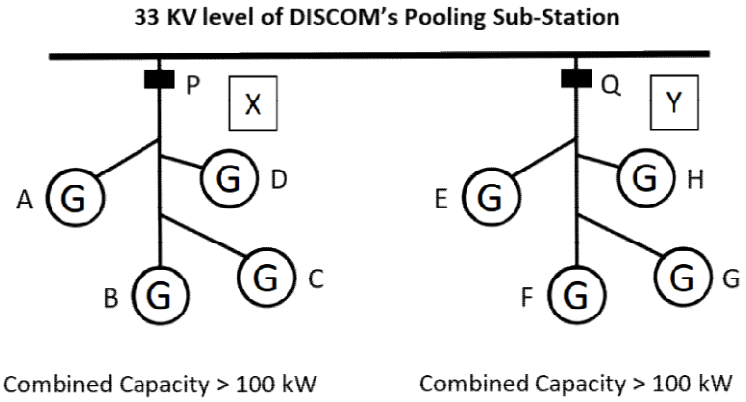
In this case, the Forecasting shall be provided by the QCA at Point 'P'. Scheduling and Accounting shall be done by CGSLDC at Point 'P'.

The Distribution losses and Transmission losses up to State Periphery as approved by Hon'ble CSERC shall be applicable.

The QCA shall de-pool the deviation charges among respective Generators separately based on the mechanism developed within themselves based on the provisions of the CSERC Regulations.

Case - 3:

Multiple Generators connected at 33 kV level of DISCOM's 33 kV Pooling Sub-Station through dedicated feeder and selling power within and Outside the State:



In such case, generators 'A' to 'D' are connected through a common & dedicated feeder 'X' having inter-connection point at 'P', selling power within the State.

Generators 'E' to 'H' are connected through a common &dedicated feeder 'Y' having inter-connection point at 'Q', selling power outside the State.

In such case, the QCA shall submit separate feeder-wise forecast at Point 'P' and 'Q' i.e. for Intra-State and Inter-State. CGSLDC shall Schedule at Point 'P' being Intra-State and at State Periphery for Point 'Q' by applying Transmission losses as approved by Hon'ble CSERC.

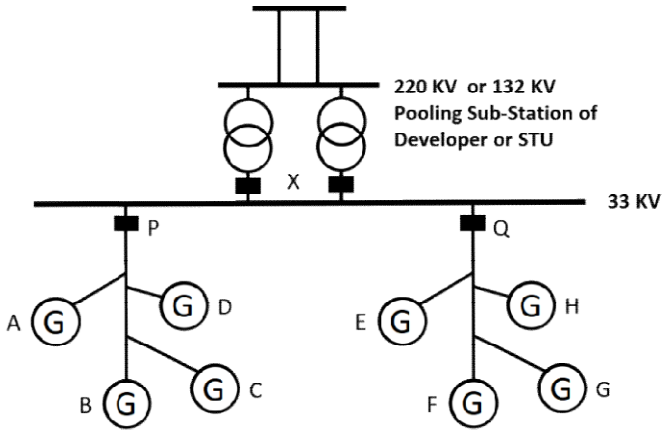
Further, in both the cases, Distribution losses as approved by Hon'ble CSERC shall be applicable.

The QCA shall De-Pool the deviation charges among respective Generators separately based on the mechanism developed within themselves based on the provisions of the CSERC Regulations.

Inter-connection at Transmission Level:

Case - 4:

Single Generator or Group of Generators having capacity above 100 kW connected at 33 kV level of EHV Pooling Sub-Station, selling power within the State:



Combined Capacity > 100 kW

In this case, a group of Generators (‘A’ to ‘H’) are connected at 33 kV level of the EHV Pooling Sub-Station through common 33 kV feeders.

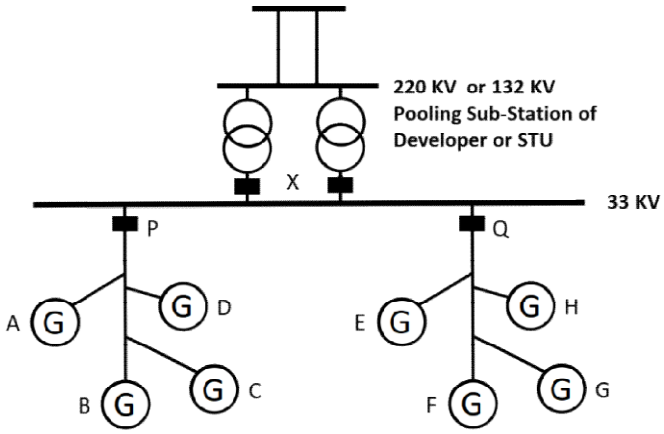
In such case, the Forecast shall be done by the QCA at Point ‘X’. Scheduling and Accounting shall be done by CGSLDC at Point ‘X’.

The QCA shall De-Pool the Deviation charges among respective Generators separately based on the mechanism developed withinthemselvesbased on the provisions of the CSERC Regulations.

In this case, Generators 'A' to 'll' and 'E' to 'H' are connected to a Pooling Sub-Station of STU or DISCOM through separate & dedicated feeders having separate inter-connection points at `P' and 'Q' respectively.

Case - 5:

Single Generator or group of Generators having capacity above 100 kW connected at 33 kV level of EHV Pooling Sub-Station, selling power Outside the State:



Combined Capacity > 100 kW

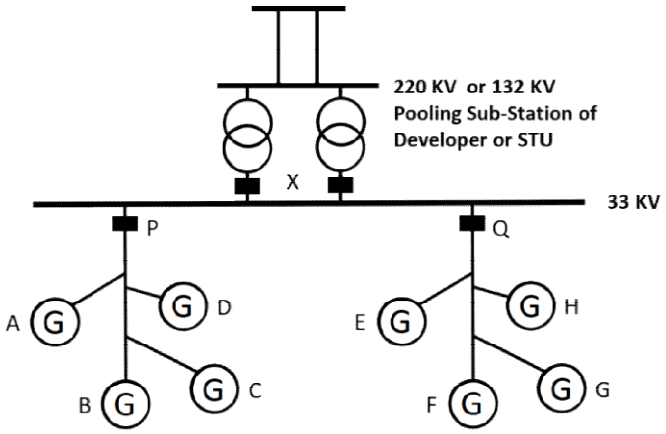
In this case, a group of Generators ('A' to 'H') are connected at 33 kV level of the EHV Pooling Sub-Station through common 33 KV feeders.

In such case, the Forecast shall be done by the QCA at Point 'X'. Scheduling and Accounting shall be done by CGSLDC at State Periphery by applying Transmission Losses as approved by Hon'ble Commission as per Point 'X'.

The QCA shall De-Pool the deviation charges among respective generators developed within themselves based on the provisions of the CSERC Regulations.

Case - 6:

Multiple Generators connected at 33 kV level of EHV Pooling Sub-Station through dedicated feeder and selling power within and Outside the State:



Combined Capacity > 100 kW

In this case, multiple generators ('A' to 'D') are connected at 33 kV level of the EHV Pooling Sub-Station through common 33 kV feeders selling power within the State.

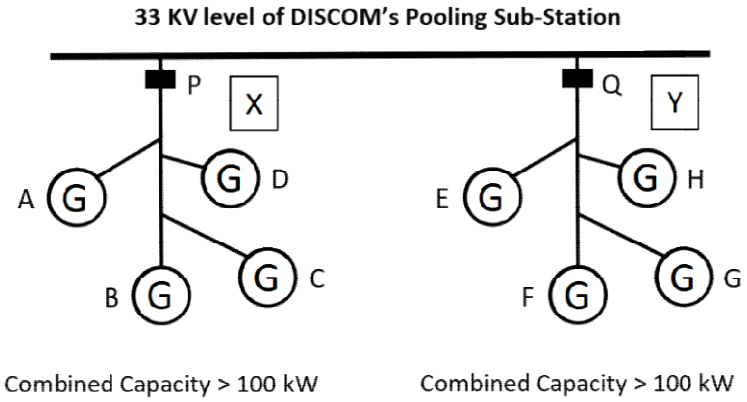
The Generators 'E' to 'H' are connected at 33 kV level of the EHV Pooling Sub-Station through common 33 kV feeders selling power outside the State.

In such case, the QCA shall submit separate feeder-wise forecast at Point 'P' and 'Q' i.e. for Intra-State and Inter-State respectively. CGSLDC shall Schedule at Point 'P' being Intra-State and at State Periphery for Point 'Q' by applying Transmission losses as approved by Hon'ble CSERC.

The QCA shall de-pool the deviation charges among respective generators separately based on the mechanism developed within themselves based on the provisions of the CSERC Regulations.

Case - 7:

Multiple Generators connected at 33 kV level of EHV Pooling Sub-Station or 33 kV Pooling Sub-Station of DISCOM, through dedicated feeder:



In this case, Generators 'A' to 'D' and 'E' to 'H' are connected to a Pooling Sub-Substation of STU or DISCOM through separate & dedicated feeders having separate inter-connection points at 'P' & 'Q' respectively.

In such case, there shall be only one QCA. The QCA shall submit consolidated Forecast for all the Generators for a Pooling Sub-Station and maintain separate forecast at Point 'P'&'Q'.

CGSLDC shall carry out Scheduling and Accounting for Pooling Sub-Station as a whole and the QCA shall De-Pool the deviation charges among respective Generators separately based on the mechanism developed within themselves based on the provisions of the CSERC Regulations.

However, in case of Intra and Inter-State transactions, separate feeder-wise forecast (for Intra& Inter-State) shall be submitted by the QCA. In such case, CGSLDC shall separately schedule the power accordingly. For Inter-State schedules, Transmission Charges, as approved by Hon'ble CSERC shall be applicable.

If the Pooling Sub-Station is of DISCOM, then Distribution losses as approved by Hon'ble CSERC shall be applicable.

SECTION-V : METERING, MONITORING & SETTLEMENT PROCEDURE

20. Appropriate meters shall be provided for Energy Accounting. Telemetry/ Communication system & Data Acquisition System shall also be provided for transfer of information to the CGSLDC by the generator or QCA appointed by it. Generator(s)/ QCA shall install the Meter/ Communication/ Data Acquisition system etc.

21. RE generators and those represented by Qualified Coordinating Agencies (QCAs), shall mandatorily provide the technical specifications of the associated equipment, at the beginning and whenever there is any change to the SLDC in the format prescribed by the SLDC. The data relating to Power System output & parameters and Weather related data as applicable shall also be mandatorily provided by such generators or QCA appointed by them to the SLDC in Real Time.

22. Access to Meters:

It is necessary that the agreement between the Generator(s) and QCA provides for the following:

22.1 Access to the QCAs to modem installed on existing ABT meters for getting data on l5 minutes basis, or

22.2 Permit access to the API link for getting the data from the meter to the QCA's central server to facilitate better forecasting.

22.3 Alternatively, allow the QCA to install additional meters on the existing CT/PT to facilitate acquisition of real time data so that best schedule can be submitted to SLDC.

23. Quantum of Cogeneration and Renewable Purchase Obligation (RPO) for Obligated Entity

23.1 Computation of total consumption for RPO for obligated entities shall be as under

Sr.	Obligated Entity	Total Consumption
1.	Distribution licensee(s)	Energy input at 33 KV level or below plus EHV sales
2.	Co-located Captive users	Gross Generation minus Auxiliary Consumption minus Total Energy injected into the grid
3.	Non Co-Located Captive users	Energy injected into the Grid by Captive Generating Plant for captive use

Sr.	Obligated Entity	Total Consumption
4.	Co-located end users who do not qualify as Captive User under Electricity Rules 2005	Gross Generation minus Auxiliary Consumption minus Total Energy Injected into the Grid
5.	Open Access Consumer	Energy Injected into the Grid by the Seller/ QCA for Open Access Consumer

23.2 For meeting the RPO, Renewable Power Purchases made by the Obligated entities under Long Term Power Purchase Agreements with the Biomass Based Generating Plants shall only be considered. Purchases made by obligated entities from other Renewable Energy sources Small Hydel, Wind, Solar under Long-Term, Medium-Term and Short-Term arrangements, will be considered for meeting the RPO.

24. Settlement Procedure

24.1 When the QCA/ Lead Generator is appointed by the Generator for the purpose of these Regulations, the responsibility for all the payments related to Deviation Charges payable on behalf of the RE Generators shall be that of QCA/ Lead Generator.

24.2 Projects (connected only with the State Transmission/ Distribution network but supplying power outside the State) shall, unless decided otherwise through separate regulatory dispensation, continue to operate within the control area of SLDC and their Deviation Settlement shall also continue to be governed by the State level Deviation Settlement Mechanism.

24.3 The QCA/ Lead Generator shall be held responsible for the dues payable/ receivable on behalf of the generator. If the Lead Generator/QCA (as the case may be) fails to pay the Deviation Charges or any other charges (specified under this procedure/in any other Regulations) payable under these Regulations Charges through the QCA/ Lead Generator, he shall not be entitled to Schedule and Dispatch the energy into the grid till the clearance of all payable dues.

24.4 In case of any payment default by the QCA, the generators shall be liable to pay the DSM charges in proportion to their MW capacity.

24.5 The Energy **not** injected into the Grid for any of the reasons like Outages, Congestion, Backing Down, Forced Majeure etc. shall not be treated as deemed generation/ injection and or not qualify for Commercial settlements and or qualify for Banking / Re Certifications purposes.

24.6 The RE Generators and QCA/ Lead Generator shall sign an agreement in this regard. Copy of signed agreement shall be provided to SLDC and CSPDCL for its record.

24.7 For the safe Grid operations the levy and collection of DSM charges shall be as shown in the table given below. However, the Deviation charges shall be as per prevailing regulations in force notified by the Commission.

S. No.	Forecast Error in the 15 min. time block	Deviation charges payable to State Pool Account
1.	<Allowable Forecast Error	None
2.	Above Allowable Forecast error	At Rs.2.00 per unit for the shortfall or excess injection

25. Application of Losses and Charges:

Transmission and Distribution charges and losses shall be applicable as specified by the CSERC/ CERC from time to time.

26. The issuance of the RE Banked Certificate (in short RECB) shall be done by SLDC based on the methodology and protocols presently followed in issuance of the REC.

27. Redemptions of the banked energy shall be based on the Certificate issued by SLDC and shall be as per regulations in force.

28. Intra-State Open Access transactions by RE generators shall be governed as per the provisions of CSERC (Connectivity & Intra-State Open Access) Regulations, 2011, as amended from time to time. Similarly Inter-State Open Access transactions by Generators shall be governed as per the provisions of CERC (Open Access in Inter-State Transmission) Regulations, 2008, as amended from time to time. Provisions of CSERC (Terms and Conditions for Determination of Generation Tariff and related matters for electricity generated by plants based on Renewable Energy Sources) Regulations, 2022 shall also be applicable for matters related to Energy Generation from RE sources.

SECTION-IV : MISCELNEOUS

29. Mechanism For Monitoring Compliance:

29.1 The event of breach or default of the procedure shall be as follows:

29.1.1 Non-payment or delay in payment of Deviation Charges.

29.1.2 Non-compliance of any of the terms/conditions/rules outlines under this procedure.

29.1.3 Non-compliance of any of the directives as per the provisions of this regulation.

29.1.4 Obtaining registration on the basis of false information or by suppressing material information.

29.1.5 QCA fails to provide schedules continuously for three (03) days.

29.1.6 QCA fails to provide metering data continuously for two (02) billing cycles.

29.1.7 Non-availability of real time data continuously for three (03) days without justified reason.

29.1.8 In case the Forecast Capacity (FoC) is intentionally and repeatedly mis-declared by the QCA.

29.1.9 Non-submission of accounts to SLDC relating to de-pooling of deviations charges prepared by the QCA.

29.1.10 Non-payment of RE DSM charges to RE DSM Pool by QCA for consecutive three (3) weeks.

29.1.11 In case the QCA has become insolvent

29.1.12 In case of continued default for statutory compliance leading to declaration of wilful defaulter by Competent Authority.

29.2 Consequences for event of default:

29.2.1 If schedule is not provided by the QCA (default as per 29.1.5) then the previous day's schedule (d-1) for those non submission days shall be considered and DSM charges shall be computed accordingly. The non-submission of schedule shall attract scheduling charges as per the provisions of the SLDC's ARR approved by Hon'ble CSERC as amended from time to time.

29.2.2 In case of default for acts covered under as per 29.1.1 to 29.1.12 without prejudice to other actions as may be taken by SLDC, the SLDC shall issue a notice of period not less than seven (07) days for revocation of registration of QCA and non scheduling of Pooling Sub-Station to which said QCA

represents and limited seven (07) days opportunity shall be given to QCA to present its case before SLDC.

29.2.3 In case QCA fails to address/rectify the breach expressed by SLDC in the Notice within stipulated time as mentioned in 29.2.2, the SLDC shall proceed with revocation of registration of QCA and disconnection from grid.

29.2.4 SLDC may also monitor for consistent patterns of over-scheduling or under-scheduling by wind/solar generator and report such actions to the Commission. If gaming is detected, the generators shall be penalized.

29.3 The change of QCA would need a notice period of fifteen (15) days and the changeover shall take place with effect from 0000 hours of a Monday, the first day of weekly settlement cycle provided no dues are outstanding.

29.4 The performance of all Users, QCAs, with respect to compliance of these regulations shall be assessed periodically.

29.5 Cyber-Security :

29.5.1 The QCAs, shall conduct annual Self-Audit to review compliance of the Cyber-Security regulations and submit the reports to SLDC by 31st July of every year.

29.5.2 The monitoring agency for Users shall be the SLDC on the basis of their respective control area. The monitoring agency shall track the progress of compliances of Users, and exceptional reporting for non-compliance shall be submitted to the appropriate Commission.

30. Redressal Mechanism:

30.1 CG SLDC shall refer the complaints regarding unfair practices, delays, discrimination, lack of information, supply of wrong information or any matters to CSERC for Redressal. Any disputes between QCA and concerned Generators shall be governed as per dispute resolution mechanism under their agreement, failing which it shall be subjected to jurisdiction of the CSERC. Pending the decision of CSERC, the directions of the CG SLDC shall be complied by the QCA and concerned Generator(s).

30.2 All the Users connected with the Grid under any modes shall have to ensure connectivity with the Grid as per the provisions of clause 4.2.4 in the CSEGC-2011. Failing which their connectivity shall be liable for disconnection from the Grid.

30.3 In case of conspicuous failures like burning of meter and erratic display of metered parameters and when the error found in testing of meter is beyond the permissible

limit of error provided in the relevant standard, the meter shall be immediately replaced with a correct meter. Procedure for Assessment of Consumption In Case of Defective and/or Stuck-Up Meter shall be as per the clause 8.11 of the CSEGC-2011.

30.4 In case of non-compliance of any provisions of the regulations by NLDC, RLDCs, SLDCs, RPCs and any other person, the matter may be reported by any person to the Commission through filing of a petition.

31. Removal of Difficulties:

Not with standing anything contained in this Procedure, SLDC CG may take appropriate decisions in the interest of System Operation. Such decisions shall be taken under prior intimation to CSERC and then Procedure may be modified / amended, if any.

32. General:

i. All Costs/ Expenses/ Charges associated with the Application, including Bank Charges, Affidavits etc. shall be borne by the Applicant.

ii. The Generators and QCA shall abide by the provisions of the Electricity Act, 2003, the CSERC Regulations and Indian Electricity Grid Code and CSERC (State Grid Code) Regulations-2011, and applicable CERC and CSERC regulations as amended from time to time.

iii. This procedure aims at easy and pragmatic Forecasting, Accounting and Settlement of Deviations for Wind and Solar Generations. However, some teething problems may still be experienced. The various implications would be known only after practical experience is gained by way of implementing these procedures. In order to resolve the same, this procedure shall be reviewed or revised by the CG SLDC with prior approval of CSERC.

iv. After approval of Procedure by Hon'ble CSERC, CG SLDC shall undertake development of software for RE-Forecasting & Scheduling and RE-DSM, and after Go-live of RE-Forecasting & Scheduling and RE-DSM software there shall be trail run period of Twelve (12) weeks for ensuring implementation of the same as envisaged in the regulation. Actual Commercial Settlement shall commence from start of week immediately after end of the trial run period or from such other date to be notified separately.

v. In case of multiple generators connected to Pooling Stations with one QCA, there must be a provision in the procedure to execute Tri-party or Multi-party agreement between CSPDCL, QCA and Generators. Criteria of the agreement to be signed will be provided by QCA/Lead Generator/ Discom after the approval by the Hon'ble Commission.

33. Annexures & Formats:

Sr No.	Annexure/ Format	Particulars
Data to be submitted by the RE Generator / Lead Generator, Principal Generator (Suggested List)		
1	ANNEXURE-1	Individual Registration Format as Appendix-V of CSERC MYT Regulations
2	ANNEXURE-1A	Technical Data for Wind Turbine Generating (WTG) plants Static data points
3	ANNEXURE-1B	Technical Data for Solar Generating Plants (SGP) Static data points
4	ANNEXURE-1C	Technical Data for Pooling Station - Details to be submitted by the Wind/ Solar Generating Stations which are Intra/ Regional Entities/ Lead Generator, Principal Generator
5	ANNEXURE-II	Notarized Affidavit/ Undertakings on Stamp Paper
6	ANNEXURE-III	Format for Day Ahead Schedule submitted by Wind/ Solar Generator or QCA
7	ANNEXURE-IV	Format for week-ahead schedule submitted by Wind/ Solar Generator or QCA
8	ANNEXURE-V	Format for Revision on the day of Actual Generation submitted by Wind/ Solar Generator or QCA
9	ANNEXURE-VI	Format for curtailment schedule Issued by SLDC during Contingency
10	ANNEXURE-VII	Real-time Data Telemetry requirement
11	FORMAT–A	APPLICATION FOR REGISTRATION
12	FORMAT-B1	Application for availing Inter State Bilateral Green Energy Open Access: Short Term
13	FORMAT-B2	Application for availing Intra State Bilateral Green Energy Open Access: Long Term, Medium Term and Short Term
14	FORMAT-B3	Application for availing Inter State Bilateral Green Energy Open Access: Long Term and Medium Term

ANNEXURE-I

Individual Registration Format - Appendix-V

All generating companies and licensees intending to get connected to the Intra-State Transmission System or Distribution System shall register themselves with the SLDC by filing application in the format specified as Appendix-V of CSERC MYT Regulations

CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2021

Appendix-V

(In Compliance Regulation 102.7)

1. **Name of the entity (in bold letters):**
2. **Registered office address:**
3. **Area in which registration is sought:**
4. **Intra-State User category:**
   - (i) Generating Station
   - (ii) Captive generating plant
   - (iii) Renewable generating plant
   - (iv) Distribution licensee
   - (v) Transmission licensee

5. **Intra-State User details (as on 31st March of last financial year for existing user and for subsequent change, if any.):**
   - i. Category – Generating Station/Renewable generating plant/Captive generating plant
     - a. Total installed capacity
     - b. Maximum contracted capacity (MW) for using intra-State transmission system
     - c. Purpose of inter-connection with State grid (please tick appropriate option)
       - (i) For supply to State distribution licensee(long-term or medium-term or short-term)
       - (ii) For supply to captive use(long-term or medium-term or short-term)
       - (iii) For supply to bulk consumers(long-term or medium-term or short-term)
       - (iv) For supply to other than the above(long-term or medium-term or short-term)
     - d. Details of Connection to the intra-State transmission system:

Sl.No.	(i) Name of EHV S/s.	(ii) Voltage level (KV)	(iii) Whether Special Energy Meters (Main) installed at this location

   - ii. Category – Transmission Licensee (intra – State)
     - a. Sub-stations:

Sl.No.	Sub-station Name	Number of transformer	Total Transformation Capacity or Design MVA handling capacity if switching station

b. Transmission lines:

Sl.No.	Voltage level (KV)	Number of Transmission lines	Total Circuit-Kilometers

6. Contact person(s) details for matters related to SLDC

i. Name:

ii. Designation:

iii. Landline Telephone No.:

iv. Mobile No.:

v. E-mail address:

vi. Postal address:

The above information is true to the best of my knowledge and belief.

Signature of Authorized Representative

Place:

Date

Name :

Designation :

Contact number :

*****

ANNEXURE-IA

Technical Data of Individual Generators- WTG

Data to be submitted by the RE Generator / Lead Generator, Principal Generator

(Suggested List)

For Wind Turbine Generating (WTG) plants Static data points:

S No	Particulars (WTG)
1	Type
2	No manufacturer
3	Make
4	Model
5	Capacity
6	Commissioned date
7	Hub height
8	Total height
9	RPM range
10	Rated wind speed
11	Performance parameter
12	Rated electrical power at Rated wind speed
13	Cut in speed
14	Cut out Speed
15	Survival speed (Max wind speed)
16	Ambient temperature for out of operation
17	Ambient temperature for in operation
18	Survival temperature
19	Low Voltage Ride Through (LVRT) setting
20	High Voltage Ride Through (HVRT) setting
21	Lightning strength (KA & in coulombs)
22	Noise power level (db)
23	Rotor 18
24	Hub type
25	Rotor diameter
26	Number of blades
27	Area swept by blades

ANNEXURE-IA

Technical Data of Individual Generators- WTG

Data to be submitted by the RE Generator / Lead Generator, Principal Generator

(Suggested List)

For Wind Turbine Generating (WTG) plants Static data points:

S No	Particulars (WTG)
28	Rated rotational speed
29	Rotational direction
30	Coning angle
31	Tilting angle
32	Design tip speed ratio
33	Blade
34	Length
35	Diameter
36	Material
37	Twist angle
38	Generator
39	Generator type
40	Generator no of poles
41	Generator speed
42	Winding type
43	Rated gen. Voltage
44	Rated Gen. Frequency
45	Generator current
46	Rated Temperature of generator
47	Generator cooling
48	Generator power factor
49	KW/MW @ Rated Wind speed
50	KW/MW @ peak continuous
51	Frequency converter 19
52	Filter generator side
53	Filter grid side
54	Transformer

ANNEXURE-IA

Technical Data of Individual Generators- WTG

Data to be submitted by the RE Generator / Lead Generator, Principal Generator

(Suggested List)

For Wind Turbine Generating (WTG) plants Static data points:

S No	Particulars (WTG)
55	Transformer capacity
56	Transformer cooling type
57	Voltage
58	Winding configuration
59	Weight
60	Rotor weight
61	Nacelle weight
62	Tower weight
63	Over speed Protection
64	Design Life
65	Design Standard
66	Latitude
67	Longitude
68	COD Details
69	Past Generation History from the COD to the date on which DAS facility provided at RLDC, if applicable
70	Distance above mean sea level

(Name, Designation & Signatures of Authorised Person LG/ PG)

ANNEXURE-IB

Technical Data of Individual Generators- SGP

Data to be submitted by the RE Generator / Lead Generator, Principal Generator

(Suggested List)

For Solar Generating Plants (SGP) Static data points

S No	Particulars (SGP)
1	Latitude
2	Longitude
3	Power Curve
4	Elevation and orientation angles of arrays or concentrators
5	The generation capacity of the Generating Facility
6	Distance above mean sea level etc.
7	COD details
8	Rated voltage
9	Details of Type of Mounting: (Tracking Technology If used, single axis or dual axis, auto or manual)
10	Manufacturer and Model (of Important Components, Such as Turbine, Concentrators, Inverter, Cable, PV Module, Transformer, Cables)
11	DC installed Capacity
12	Module Cell Technology
13	I-V Characteristic of the Module
14	Inverter Rating at different temperature
15	Inverter Efficiency Curve
16	Transformer Capacity & Rating , evacuation voltage, distance form injection point
17	Type of Solar Inverter- On-grid, Off-grid, and Hybrid Solar Inverters
	(Name, Designation & Signatures of Authorised Person LG/ PG)

ANNEXURE-IC

Technical Data for POOLING STATIONS

Details to be submitted by the Wind/ Solar Generating Stations which are Intra/ Regional Entities/ Lead Generator, Principal Generator

1	Type: Wind/ Solar Generator	
2	Individual / on Behalf of Group of Generators	
3	If on Behalf of Group of Generators group of then details of agreement to be attached	
4	Total Installed Capacity of Generating Station	
5	Total Number of Units with details	
6	Physical Address of the RE Generating Station	
7	Whether any PPA has been signed: (Y/N)	If yes ,then attach details
8	Connectivity Details	Location/Voltage Level
9	Metering Details	Meter No. 1. Main 2. Check
10	Connectivity Diagram	(Please Enclose)
11	Static data	As per attached sheet
12	Contact Details of the Nodal Person	Name : Designation : Number: Landline Number, Mobile Number, Fax Number E - Mail Address :
13	Contact Details of the Alternate Nodal Person	Name : Designation : Number: Landline Number, Mobile Number, Fax Number E - Mail Address:
		(Name, Designation & Signatures of Authorised Person LG/ PG

ANNEXURE-II

UNDERTAKING

Notarized Affidavit/ Undertakings on Stamp Paper

(To be executed on NJ Stamp paper of Rs 250/-)

I..... Be and herewith Undertake that –

1. I having its registered ofiice at..... ....
....

2. I am registered with ..... is a Company or Body Corporate or Association or Body of Individuals, or Artificial Juridical Person incorporated/ registered under the Company Laws of India.

3. I am Renewable Energy Generating Station or Lead Generator or Qualified Coordinating Agency (QCA) appointed by RE Generators who may be one of the Generators or any mutually agreed Agency, And represents the following Participating Pooling/Independent Generators (**Entity**):

Sr No.	Entity Name	Entity Regn ID Details with SLDC	Entity Type	Entity DOCO	Entity Capacity	Entity Project Capital Cost
1						
2						
3						
…						
…						
…						
…						

4. I shall be responsible and abide with all the Roles and Responsibilities as determined in Clause 8 of SOP for the RE.

I. ***Undertake to Provide Forecast Capacity, Day Ahead Forecast and Schedule***

5. I Renewable Energy Generating Station or Qualified Coordinating Agency (QCA) on behalf of Renewable Energy Generating Station(s), shall be responsible and accountable for Real Time and Scheduling methodology to be followed for multiple Renewable Energy Generating Station(s) connected at a Renewable Energy Generating Station Parks/ Pooling Substations Pooling station.

6. I shall be responsible to provide forecast and other data and to coordinate with CGSLDC under the RE Regulations and its Procedure and their amendment time to time.

II. ***Undertake to Provide Metering and Data collection.***

7. I shall be responsible to provides the following:

a. Access to the QCAs to modem installed on existing ABT meters for getting data on l5 minutes basis, or

b. Permit access to the API link for getting the data from the meter to the QCA's central server to facilitate better forecasting.

c. Alternatively, allow the QCA to install additional meters on the existing CT/PT to facilitate acquisition of real time data so that best schedule can be submitted to SLDC.

III. ***Undertake to Comply the instructions.***

8. I shall be responsible and shall mandatorily provide the technical specifications of the associated equipment, at the beginning and whenever there is any change to the SLDC in the format prescribed by the SLDC. The data relating to Power System output & parameters and Weather related data as applicable shall also be mandatorily provided by such generators or QCA appointed by them to the SLDC in Real Time.

9. I shall be responsible and shall abide by the provisions of the Electricity Act, 2003, the CSERC Regulations and Indian Electricity Grid Code and CSERC (State Grid Code) Regulations-2011, and applicable CERC and CSERC regulations as amended from time to time.

IV. ***Undertake Commercial Settlement.***

10. I shall be responsible for all the payments related to Deviation Charges payable on behalf of the RE Generators shall be that of QCA/ Lead Generator. The QCA/ Lead Generator shall be held responsible for the dues payable/ receivable on behalf of the generator, if the generator fails to pay the Deviation Charges payable under these Regulations through the QCA/ Lead Generator. The RE Generators and QCA/ Lead Generator shall sign an agreement in this regard.

11. I shall be responsible for settlement of All Costs/ Expenses/ Charges associated with the Application, including Bank Charges, Affidavits etc.

V. ***Undertake to keep indemnified***

12. I shall keep CGSLDC indemnified at all times and shall undertake to indemnify, defend and save the SLDC/ STU/ CSPDCL harmless from any and all damages, losses including Commercial Losses due to forecasting error, claims and actions including those relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties,

arising out of or resulting from the transactions undertaken by the Generator(s).

Undertaken and Signed on……..……...this date……..…of this month……..……..…of this year.

(Name, Designation & Signatures of

Authorised Person LG/ PG

Witnessed By -

(Participating Pooling/Independent Generators (Entity/s))

With Sign & Seal and Regn No.

1. ……..

2. ……..

3. ……..

4. ……..

. ……..

ANNEXURE-III

Format- DAY-AHEAD SCHEDULE

Format for Day Ahead Schedule submitted by Wind/ Solar Generator or QCA

Name of the wind/solar Generator or QCA_____
Schedule for dated _____
Revision No. _____
Time of Revision _**Hrs**
Time of Receipt by SLDC ----------Hrs

Time-Period			**Forecast Capacity Day Ahead**	**Day Ahead Forecast**	**Day Ahead Schedule**
Block	**From (Hrs : MM)**	**To (Hrs : MM)**	**(MW)***	**(MW)***	**(MW)***
1	0:00	0:15			
2	0:15	0:30			
3	0:30	0:45			
4	0:45	1:00			
-	-	-			
-	-	-			
-	-	-			
-	-	-			
93	23:00	23:15			
94	23:15	23:30			
95	23:30	23:45			
96	23:45	24:00			
Total in MWHr (for 24 Hrs)					
Maximum during the day (MW)					
Minimum during the day (MW)					
Average during the day (MW)					

***All figures at Ex-Bus Periphery.**

(Name, Designation & Signatures of Scheduling Officer-In charge)

ANNEXURE-IV

Format- WEEK-AHEAD SCHEDULE

Format for week-ahead schedule submitted by Wind/ Solar Generator or QCA

Date:

Name of the wind/solar Generator or QCA:__

Schedule for week
Revision No.
Time of Revision _____Hrs
Time of Receipt by SLDC ---------- Hrs

Time-Period			Schedule for weak ahead (Day wise)						
			Day1	Day2	Day3	Day4	Day5	Day6	Day7
Block	From (Hrs : MM)	To (Hrs : MM)	(MW)*	(MW)*	(MW)*	(MW)*	(MW)*	(MW)*	(MW)*
1	0:00	0:15							
2	0:15	0:30							
3	0:30	0:45							
4	0:45	1:00							
-	-	-							
-	-	-							
-	-	-							
-	-	-							
93	23:00	23:15							
94	23:15	23:30							
95	23:30	23:45							
96	23:45	24:00							
Total in MWHr (for 24 Hrs)									
Maximum during the day MW)									
Minimum during the day (MW)									
Average during the day (MW)									

***All figures at Ex-Bus Periphery.**

(Name, Designation & Signatures of Scheduling Officer-In charge))

ANNEXURE-V

Format- REVISION SCHEDULE

Format for Revision on the day of Actual Generation submitted by Wind/ Solar Generator or QCA

Date:

Name of the wind/solar Generator or QCA _____
Schedule for dated —
Revision No. _____
Time of Revision___**Hrs**
Time of Receipt by SLDC ----------**Hrs**

Time-Period			**Day Ahead Schedule**	**Current Forecast Capacity**	**Revised Schedule**
Block	**From (Hrs : MM)**	**To (Hrs : MM)**	**(MW)***	**(MW)***	**(MW)***
1	0:00	0:15			
2	0:15	0:30			
3	0:30	0:45			
4	0:45	1:00			
-	-	-			
-	-	-			
-	-	-			
-	-	-			
93	23:00	23:15			
94	23:15	23:30			
95	23:30	23:45			
96	23:45	24:00			
Total in MWHr (for 24 Hrs)					
Maximum during the day (MW)					
Minimum during the day (MW)					
Average during the day (MW)					

***All figures at Ex-Bus Periphery.**

(Name, Designation & Signatures of Scheduling Officer-Incharge)

ANNEXURE-VI

Format- CURTAILMENT SCHEDULE

Format for curtailment schedule Issued by SLDC during Contingency

Date:

Name of the wind/solar Generator or QCA
Schedule for dated _____
Revision No. _____
Time of Revision _____**Hrs**

Time-Period			**Required Schedule after curtailment**
Block	**From (Hrs : MM)**	**To (Hrs : MM)**	**(MW)***
1	0:00	0:15	
2	0:15	0:30	
3	0:30	0:45	
4	0:45	1:00	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
93	23:00	23:15	
94	23:15	23:30	
95	23:30	23:45	
96	23:45	24:00	
Total in MWHr (for 24 Hrs)			
Maximum during the day (MW)			
Minimum during the day (MW)			
Average during the day (MW)			

***All figures at Ex-Bus Periphery.**

(Name, designation & Signatures of Scheduling Officer-Incharge)

ANNEXURE-VII

Real-time Data Telemetry

Real-time Data Telemetry requirement (Suggested List)

1. The communication system along with data links provided for speech and Real time data communication shall be monitored in real time by all users, CTU, STU, SLDC and RLDC to ensure high reliability of the communication links. ***Confirm Provided to SLDC. - Y/N***

   Please Specify the Communication system -

   (i) Mode of communication for Main-1 and Main-2 protection

   (ii) Mode of communication for data and speech communication

   (iii) Status of PLCC channels

   (iv) Time synchronization equipment details

   (v) OPGW on geographically diversified paths for Main-1 and main-2 relay

   (vi) Other requirements for protection checking and validation

2. Telemetered data of feeders (MW power flow in real time and circuit breaker status) on which UFR and df/dt relay are installed is available at its control centre- ***Confirm Provided to SLDC. - Y/N***

   a. Please specify for the Wind Turbine Generating plants:

   (i) Turbine Generation (MW/MVAR)

   (ii) Wind Speed (meter/second)\

   (iii) Generator Status (on/off-line)- this is required for calculation of availability of the WTG Wind Direction (degrees from true north)

   (iv) Voltage (Volt)

   (v) Ambient air temperature (oC)

   (vi) Barometric pressure (Pascal)

   (vii) Relative humidity (in percent)

   (viii) Air Density (kg/m3)

   b. Please Specify for the Solar Generating Plants:

   (i) Solar Generation unit/ Inverter-wise (MW and MVAR)

   (ii) Voltage at interconnection point (Volt)

   (iii) Generator/Inverter Status (on/off-line)

(iv) Global horizontal irradiance (GHI) (Watt/m2)

(v) Ambient temperature (oC)

(vi) Diffuse Irradiance (Watt/m2)

(vii) Direct Irradiance (Watt/m2)

(viii) Sun-rise and sunset timings

(ix) Cloud cover (Okta)

(x) Rainfall (mm)

(xi) Relative humidity (%)

(xii) Performance Ratio

(xiii)

3. Advanced Composition Exchange (ACE) data shall be archived at the interval of 10 seconds or lower and exchanged with SLDC. ***Confirm Provided to SLDC. - Y/N***

FORMAT–A

Application for REGISTRATION

1. Applicant type: Distribution Licensee/ State GENCO/ IPP / Merchant Plant/ CPP/ OA Consumer/ Trading Licensee/ Power Exchange/ QCA/ Others (Define)… ……
2. Consumer Identification number (as applicable): ……
3. Type of Renewable Source (as recognized by Govt of India/ MNRE): ……
4. Date of Commissioning (with supporting document): ……
5. Applicant Name: ……
6. Postal (Registered Office) Address: …… …… …… …… …… …… …… …… Pin: ……
7. Control area: SLDC/ RLDC (wherever applicable)
8. Region: ER/NER/NR/SR/WR (wherever applicable)
9. Type: Injecting/ Drawee/ Both /Trading Licensee /Power Exchange (as applicable)
10. SLDC Charges applicable (Y/N): If no, Certificate from SLDC
11. STU Charges applicable (Y/N): If no, Certificate from STU/SLDC
12. Connectivity: Connected to State Transmission network/ ISTS network/ Both (Provide Connectivity diagram)
13. COD certificate: Applicable for generating station (upload COD certificate copy)
14. State (Geographical location for grid connected entity where ISTS charges are levied):
15. Nodal person: Name, mobile number and email id
16. GST number: Upload GST registration copy
17. PAN and TAN number: Upload PAN card copy, TAN registration copy
18. Bank account number: Upload cancelled cheque or copy of passbook
19. Bank name : ……
20. Bank IFSC code : ……
21. Bank address : ……
22. Trading licensee details: …… Upload trading license
23. Additional details, if any with supporting documents needed by the nodal agency to be furnished in accordance with the extant CERC/ CSERC regulation.
24. Details, of Non-Refundable Application Fess (including Taxes) with supporting documents needed to be furnished : ……

25. Details of Participating Pooling/Independent Generators (**Entity**) :

Sr No.	Entity Name	Entity Regn ID Details with SLDC	Entity Type	Entity DOCO	Entity Capacity	Entity Project Capital Cost
1						
2						
3						
…						
…						

I/ We agree for the CSERC (Forecasting, Scheduling, Deviation Settlement and Related matters for Solar and Wind Generation Sources) Regulations 2019 and as amended from Time to Time and Procedures thereof.

Seal of the Firm **Date** **Place:**	**Signature of Authorised Representative of Company/ Agency** **Name:** **Status** **Name of Company/Agency:**

FORMAT-B1

STOA at GOAR

Application for availing Inter State Bilateral Green Energy Open Access: Short Term

<table>
<tr><td>1</td><td>Application No.</td><td colspan="3"></td><td>Date</td><td></td></tr>
<tr><td>2</td><td>Applicant Name</td><td colspan="3"></td><td>Registration Code</td><td></td></tr>
<tr><td>3</td><td>Applied on behalf</td><td colspan="5"></td></tr>
<tr><td>4</td><td>Types of application (Advance, FCFS, Day Ahead, Contingency)</td><td colspan="5"></td></tr>
<tr><td rowspan="3">5</td><td rowspan="3">Schedule Request</td><td colspan="2">Date</td><td colspan="2">Hours</td><td>MW at the regional periphery</td></tr>
<tr><td>From</td><td>To</td><td>From</td><td>To</td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="2">6</td><td rowspan="2">Name of Entity</td><td colspan="3">Injecting Entity</td><td colspan="2">Drawee Entity</td></tr>
<tr><td colspan="3"></td><td colspan="2"></td></tr>
<tr><td>7</td><td>Entity in which embedded</td><td colspan="3"></td><td colspan="2"></td></tr>
<tr><td>8</td><td>Concerned SLDC/RLDC</td><td colspan="3"></td><td colspan="2"></td></tr>
<tr><td>9(a)</td><td colspan="4">Applied route (from Injection region to Drawal region) (e.g. – NR-SR, WR-SR etc.</td><td colspan="2"></td></tr>
<tr><td>9(b)</td><td colspan="4">Alternate route(s) (e.g. – NR-WR-SR etc.)</td><td colspan="2"></td></tr>
<tr><td>10</td><td colspan="4">In case of portfolio sale from the Distribution Licensee, specify the following:
a) Name of the Injection Source (s):
b) Type of Renewable Source [Solar/ Wind/ Hydro/ Other Renewable (e.g.: Geo-Thermal, Small Hydro, Waste to Power, Tidal, Biomass, Bagasse)]</td><td colspan="2"></td></tr>
<tr><td>11</td><td colspan="4">Whether the Transaction type is Captive? (Yes/No)
(Supportive Document)</td><td colspan="2"></td></tr>
<tr><td>12</td><td colspan="4">Whether the transaction is for meeting RPO? (Yes/No)
(applicable for injection from RE source)</td><td colspan="2"></td></tr>
<tr><td>13</td><td colspan="4">Whether the power is procured under competitive bidding? (Yes/No)</td><td colspan="2"></td></tr>
</table>

i. Declaration: The provisions of the Electricity Act 2003, Indian Electricity Grid Code and all applicable CSERC/ CERC Regulations with respect to Short Term Open Access transactions in Intra/ Inter-State transmission, as amended from time to time are hereby understood and shall be binding.

ii. Indemnification: The Applicant shall keep each of the SLDCs/ RLDCs/ NLDC/ STUs/ CTU indemnified at all times and shall undertake to indemnify, defend and save the SLDCs/ RLDCs/ NLDC/ STUs/ CTU harmless from any and all damages, losses, claims and actions including those relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the transactions.

Place: **Name:**

Dated: **Designation:**

FORMAT-B2

LTA, MTOA & STOA Intra State

Application for availing Intra State Bilateral Green Energy Open Access: Long Term, Medium Term and Short Term

1. The (Name and address of Nodal agency)

2. Application No.

3. Name of the Applicant

4. Address for Correspondence:

Phone No. (Off) Email id

5. Category of the applicant: Trading Licensee/ Consumer/ Generator/ Distribution Licensee/ Power Exchange/ other

6. Type of open access: Long Term Open Access/ Medium Term Open Access/Short Term Open Access (Please mark appropriately)

7. If applicant is Trading Licensee/ Power Exchange, application on behalf of:

8. Type of Entity:

a) In case of Portfolio sale from Distribution Licensee, please specify the following:

(i) Name of the Injection Source (s):

(ii) Capacity of the plant (in MW)

(iii) Type of Renewable Source [Solar/ Wind/ Hydro/ Other Renewable (e.g.: Geo-Thermal, Small Hydro, Waste to Power, Tidal, Biomass, Bagasse)]

b) Other sources, if any, not covered under (a): (to be specified) .....

(Licensees to submit a copy of license valid under the Act by Distribution Licensee. Others to submit documentary evidence in support of above)

9. Details of nodal on behalf of the Applicant:

Name, Designation, Phone Numbers, Mobile, E-Mail Address

10. Capacity Applied:

Date		Hours		MW
From	To	From	To	

11. Injecting Entity Details:

a) Name:

b) Point of Injection:

c) Name of Concerned SLDC/ALDC:

d) ABT Meter already Installed: Yes/ No

e) Real time communication facility with Licensee and/ or SLDC: Ready/ Not Ready (as applicable)

12. Drawee Entity Details:

a) Name:

b) Point of Drawal:

c) Name of Concerned SLDC/ALDC

d) ABT Meter already Installed: Yes/ No

e) Real time communication facility with Licensee and/ or SLDC: Ready/ Not Ready (as applicable)

13. Name and details of other agencies involved, if any (e.g.: Distribution Licensee)

14. Whether the Transaction type is captive (Yes/No): (Supportive Document to be uploaded)

15. Non-Refundable Application Fee (please fill up the amount as appropriate) Long Term Open Access/Medium Term Open Access/Short Term Open Access: Bank Draft / Pay Order No./ RTGS or NEFT Reference Dated: In favor of: Payable at: (With Supporting document attached)

16. Additional details (if any) with supporting documents needed by the nodal agency to be furnished in accordance with the extant CERC/SERC regulation:

17. Other Terms: It is hereby certified that all agencies (including buyer, seller, trader etc.) to the transaction shall abide by the provisions of the State Electricity Regulatory Commission (Open Access) Regulations.

a) The Applicant hereby agrees to pay all the relevant charges applicable to him in terms of the State Electricity Regulatory Commission (Open Access) Regulations and Regulations under the Act.

b) The Applicant hereby agrees to keep the concerned SLDC, STU, Transmission Licensee and Distribution Licensee indemnified at all times and undertakes to indemnify, defend and save the concerned SLDC, STU, Transmission Licensee and Distribution Licensee harmless from any and all damages, losses, claims and actions relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the transactions under this Approval.

c) Any other information / details that may be required by the concerned Transmission Licensee(s) /STU/ SLDC/ Distribution Licensee shall be provided promptly by the Applicant.

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Place: **Name:**

Dated: **Designation:**

FORMAT-B3

LTA & MTOA at GOAR

Application for availing Inter State Bilateral Green Energy Open Access: Long Term and Medium Term

The application shall be redirected to CTU processing applications i.e., at National Single Window System (NSWS)

ABBREVIATIONS

S. No.	Abbreviations	Description
1	RE	Renewable Energy
2	QCA	Qualified Coordinating Agency
3	COD	Date of Commissioning
4	PPA	Power Purchase Agreement
5	WP	Wind Power
6	SHP	Small Hydel Plant
7	LHP	Large Hydro Projects
8	BMPP	Biomass Power Project
9	NFCG	Non-fossil Fuel Based Co-Generation
10	SPV	Solar PV
11	MSW	Municipal Solid Waste
12	RDF	Refuse Derived Fuel
13	BGPP	Biogas based Power Project
14	MAAT	Minimum Annual Average Turnover
15	RTM	Real Time Monitoring
16	RLDC	Regional Load Despatch Center
17	LP/ PG	Lead Generator/ Principal Generator
18	PP/ IP	Pooling Partners/ Individual Generators
19	DRE	Distributed Renewable Energy
20	IDRES	Independent Distributed Renewable Energy System”
21	REGS	Renewable Energy Generating Station
22	CGSLDC	Chhattisgarh State Load Despatch Center
23	SEA	Scheduled Energy Account
24	STOA	/Short Term Open Access
25	MTOA	Medium Term Open Access
26	LTA	Long Term Open Access
27	FoC	Forecast Capacity
28	CREDA	Chhattisgarh Renewable Energy Development Agency
29	CSOAR	Chhattisgarh State Open Access Regulations
30	GOAR	Green Energy Open Access Regulations
31	CERC	Central Electricity Regulatory Commissions
32	CSERC	Chhattisgarh State Electricity Regulatory Commissions
33	CNA	Central Nodal Agency
34	OA	Open Access
35	CTU	Central Transmission Utility
36	STU	State Transmission Utility
37	WTGs	Wind Turbo Generators
38	BDIs	Backing Down Instructions
39	DISCOM	Distribution Company
40	GENCO	Generation Company
41	RPO	Renewable Purchase Obligation
42	NSWS	National Single Window System

RE Generators Registration Certificate (Sample)

CSPTCL

Chhattisgarh State Load Despatch Centre, Raipur
CSPTCL(Successor Co.of CSEB),P.O.Danganiya,Raipur-492013.
Phone-0771-2574172,FAX-0771-2574174,www.,sldccg.gov.in Email:ce.sldc@cseb.gov.in

Registration Certificate No:- SOLAR2014SARTHAK0082

ENTITY ID : SESOLAR CSEB **Date of Issue 25-Mar-2014**

This Registration shall be valid for the period of Ten years from the date of notification of the regulations or date of issue of this certificate whichever is earlier.Thereafter renewal of registration shall be done in the manner as specified in the regulations and on payment of fees and charges as decided by Commission in the CSERC(Fees and Charges of State Load Despatch Center and other related matters) Regulation,2012.Notified on Dec 29,2012

1. Entity Registered :- M/s Sarthak Energy Pvt. Ltd.
2. Correspondence address:

Corporate/Registered Office		Site Office	
1304, Pragati Tower, 26, Rajendra Place New Delhi-110008		B.B.C. Colony, G.E. Road Khursipar Bhilai - 490011, (C.G.)	
Contact Person:	Mr. Anirudh Singhal	Contact Person:	Mr. Anirudh Singhal
Contact Number:	91-1142466413	Designation:	Director
Email id:.	anirudh.singhal@ucsg.org	Contact Number:	9899738234
Fax Number:	91-1125731596	Email id:.	anirudh.singhal@ucsg.org
		Fax Number:	(91-788)2225874

3. Certificate of Incorporation No.**U40300DL1999PTC100555** by ROC **Delhi & Haryana**
4. M/s SESOLAR CSEB is having PAN no :-**AACCC4124E**
5. M/s SESOLAR CSEB is having generator/s of following details :-

Installed Capacity(in MW)	Machine Sl. No.	Machine Make
1.1 MW (510KVA*2 SPV)	5200001109 001~003	AEG PS, INV

6. M/s SESOLAR CSEB has sought registration for capacity of **1.1 MW** injecting power as **SOLAR** category, connected with the State grid at **33 KV** voltage level at **33/11 KV Nankatti S/s** and has deposited an amount of **Rs 2.00 Lakhs** in figure, **(Rs two Lakhs only)** in words towards the SLDC Registration charge as per the provisions of CSERC (SLDC fee & charges) Regulation 2012.
7. The SCADA integration station Point ID :- **72874**
8. The Interface point ABT (MM) Meter ID :- **APMB5240**
9. SESOLAR CSEB is having Contract Demand of :- **60 KVA** with CSPDCL .
10. Vendor ID of SESOLAR CSEB is :- **311483**
11. This acknowledgement shall stand valid till the firm **M/s Sarthak Energy Pvt. Ltd.** indemnify with all the provision EA 2003, Grid Code and subsequent rules & regulations and the above information submitted by them remains unaltered.

Kindly quote the above Entity-ID In all your future correspondence.

STATE LOAD DESPATCH CENTRE ★ CHHATTISGARH ★ RAIPUR-492013

Executive Director
SLDC,CSPTCL,Raipur

Rec 25/03/2014
ANIRUDH SINGHAL
09899738234

Pooling / Individual Generators Registration Certificate (Sample)

CSPTCL
CIN - U40108CT2003SGC015820

CHHATTISGARH STATE LOAD DESPATCH CENTRE: RAIPUR
CSPTCL(Successor Co.of CSEB),P.0.Danganiya,Raipur-492013.(CG)
Phone-0771-2574172, Fax-0771-2574174,www.sldccg.com Email:csebsldc@sldccg.com

Registration Certificate No: RTSPV / 1

ENTITY ID : BJPSOLAR-RPR **Date of Issue 06-Aug-2023**

M/s The Mahamantri (Sangathan), Bhartiya Janta Party, Ekatma Parisar, Rajbandha Maidan, Raipur having a Solar PV Power plant installation of capacity **100** KWp connected to 33 KV system vide CSPDCL lettter no No. 02-02/SE-I/BJP Karyalaya/ 4169 dtd 27-Feb-2013 has paid sum of Rs.1000 (Rs. One Thousand Only) towards Registration fees. Name of **BJPSOLAR-RPR** has been entered in records at Sr No 1 in compliance to CSERC Regulations and CSERC Order dated 05-July-2018 in Suo Motu Petition no.37 of 2018(M).

This document is valid only for bussiness related with SLDC activities .

STATE LOAD DESPATCH CENTRE CHHATTISGARH RAIPUR-492013

Chief Engineer
SLDC,CSPTCL,Raipur

Office Copy

CSPTCL
CIN - U40108CT2003SGC015820

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