

फैक्स/स्पीड पोस्ट /FAX/SPEEDPOST

भारत सरकार केंद्रीय विद्युत प्राधिकरण दक्षिण क्षेत्रीय विद्युत समिति बेंगलूरु - 560 009	 सत्यमेव जयते	Government of India Central Electricity Authority Southern Regional Power Committee Bengaluru - 560 009	
Web site: www.srpc.kar.nic.in	e-mail: mssrpc-ka@nic.in	Ph: 080-22287205	Fax: 080-22259343
सं/No.	SRPC/SE-II/2018 / 2124-31	दिनांक / Date	12.04.2018

To
As per list enclosed

Sir,

Sub: Special Meeting on Evacuation of power from Ananthapuram Ultra Mega Solar Park (1500 MW) -Reg

APSPCL vide letter dated 04.04.2018 has sought certain clarifications in regard to evacuation of Solar Power generated from Ananthapuramu Ultra Mega Solar Power Park (1500 MW). It was also requested that this issue may kindly be an agenda item of next OCC/Special Meeting. The issue was discussed in the 142nd OCC meeting held on 10.04.2018 and it was agreed to discuss the issues thoroughly in a special meeting. Earlier a meeting was held on 02.05.2016 in respect of Ananthapuramu (NP Kunta) Ultra Mega Solar Power Park and minutes are available at SRPC website.

It is proposed to convene a meeting **at 10:30 hrs on 02.05.2018 (Wednesday) at SRPC, Bengaluru.** The Agenda for the Meeting is enclosed. It is requested to kindly make it convenient to attend the Meeting or nominate the concerned officials.

धन्यवाद /Thanking you,

भवदीय / Yours faithfully

संलग्न : यथोपरि / Encl: As above



(असित सिंह / Asit Singh)

अधीक्षक अभियंता / Superintending Engineer

Mailing list:

1. Managing Director, APSPCL, Hyderabad
2. Director (Solar), SECI, New Delhi
3. Chief Engineer, APSLDC, Vidhyuth Soudha, Gunadala, Vijayawada
4. Chief Engineer, APCC, Vidhyuth Soudha, Gunadala, Vijayawada
5. General Manager (AM), SR-I, PGCIL, Hyderabad
6. AGM I/c (Commercial), NTPC, Secunderabad
7. Officer I/c, Ananthapur Solar, NTPC, Kadiri
8. GM, SRLDC, Bengaluru

Sub: Agenda points for Special Meeting on Evacuation of power from Ananthapuram Ultra Mega Solar Park (1500 MW)

1. APSPCL letter dated 04.04.2018 is enclosed at **Annexure-I**.
2. Scheduling of the Ananthapuram Ultra Mega Solar Park
 - *In IEGC 5th amendment, the Regulation 6.4.2(b) had been modified to 'Ultra Mega Power Projects and Projects based on Wind and Solar resources and having 500 MW and above'.*
 - *APSPCL letter dated 04.04.2018: Whether 650 MW (250+400) capacity generated from the Solar Park is scheduled by APSLDC or SRLDC since the entire 650 MW capacity is purchased by APDISCOMS as per the existing PPA with NTPC for 250 MW and PSA with SECI for 400 MW?*
 - *APSPCL letter dated 04.04.2018: Whether this Solar Park comes under SRLDC purview or APSLDC purview. Presently, it is under the purview of APSLDC and tariff metering is at 33 kV side of 220/32 kV Pooling substation.*
 - *APSPCL letter dated 04.04.2018: If scheduling is done by APSLDC, then the responsibility for down loading data from tariff meters located at 220 kV side 400 kV Grid substation of PGCIL and energy accounting is to be clarified.*
 - *SRPC vide letter 06.04.2018 (Annexure-II) had requested SRLDC to communicate their views/stand on the scheduling issues raised by APSPCL for enabling SRPC to take further action in this regard. SRLDC letter dated 10.04.2017 containing observations regarding scheduling of Adani Solar Power Projects of Kamuthi in Tamil Nadu was also enclosed since it was felt that there could be similar scheduling issues involved.*
3. **In case** scheduling is to be carried out by SRLDC - Procedure for Implementation of the Framework on Forecasting, Scheduling and Imbalance Handling for Renewable Energy (RE) generating stations including Power Parks based on Wind and Solar at Inter-State level has been approved by Hon'ble CERC vide letter dated 03.03.2017 and would be applicable in this case. The following would be required to be adhered by RE generator:
 - Submit one time details to concerned RLDC as per Annexure-I of Procedure.
 - Provide **available capacity, day ahead forecast** (based on their own forecast or on the forecast done by RLDC) and **schedule** as per Annexure-II of Procedure through web based application maintained by RLDCs.
 - Provide real time availability (at Turbine/inverter level) and generation data (at pooling station level) as per Annexure-III of Procedure.
 - Provide monthly data transfer as per Annexure-IV of Procedure.
 - **Be responsible for metering and data collection**, transmission and coordination with RLDC, SLDC, RPC, CTU and other agencies as per IEGC and extant CERC Regulations.
 - ✓ *Metered data in the specified format to be furnished in the time bound manner.*

- ✓ *APSPCL letter dated 04.04.2018: PGCIL may be advised to install tariff meters at 220 kV side of 400 kV Grid substation as per the CERC/APERC metering code.*
- Undertake commercial settlement for all deviation-settlement charges as per applicable CERC Regulations.
 - ✓ *APSPCL letter dated 04.04.2018: If scheduling is done by SRLDC, the responsibility the impact of Deviation Settlement Mechanism on different entities may also be clarified.*
 - ✓ *APSPCL letter dated 04.04.2018: After the entire capacity of 1500 MW is commissioned and if there is any interstate sale agreement for minimum capacity of 10 % of total capacity, the procedure to be followed may also be examined.*
- **Submit a copy of the agreement** to concerned RLDC wherein it is mentioned that RE Generator or Lead Generator or Principal Generator **shall undertake all operational and commercial responsibilities on behalf of Generating Stations as per the prevalent CERC Regulations.**
- **Perform commercial settlement beyond the connection points (De-pooling arrangement) and technical Coordination** amongst the generators within the pooling station and upto the connection point as the case may be.
- **Shall furnish the PPA rates on notarized Affidavit for the purpose of deviation charge** account preparation to the respective RPC supported by the copy of PPA.
 - ✓ *SERC approved rates for different modules/stages*
- SPPD / WPPD shall be responsible for registering the Solar Power Park with the respective RLDC/SLDC as applicable as a user.
- SPPD/WPPD shall be responsible for complying with all the provisions of CEA standards for Grid Connectivity and other relevant CERC or CEA Regulations.
- SPPD/WPPD shall be responsible for sending SCADA data to the RLDC and to the Renewable Energy Management Centre (REMC).
 - ✓ *APSPCL letter dated 04.04.2018: Presently, the real time / SCADA data is being transmitted to APSLDC from 220/33 kV Pooling Substations of APSLDC through PGCIL 400/220 kV Grid substation and SRLDC.*
 - ✓ *APSPCL letter dated 04.04.2018: Procedure to be followed for transmission of Data to APSLDC/SRLDC from SCADA of 220/33 kV Pooling Substations may be clarified.*
 - ✓ *Hotline facility would be required to be established to SRLDC from Ananthapuram UMSP Control Room by SPPD/WPPD*
 - ✓ *Internet facility at UMSP Control Room*
 - ✓ *Details of Nodal Officers for various activities*
- In the event of contingency, transmission constraints, congestion in the network, threat to system security, the transaction of RE generators already scheduled by RLDC may be curtailed as per the provisions of IEGC for ensuring secure and reliable operation.
- Indemnification Certificate by RE generator

4. Any other point, with the permission of the Chair.



ANDHRA PRADESH SOLAR POWER CORPORATION Pvt. Ltd.
(A JV Company of Govt of Andhra Pradesh & Govt of India)

To
The Member Secretary,
Southern Regional Power Committee,
Central Electricity Authority,
No. 29 Race Course Cross Road,
Bangalore-560 009.
Tel: 080-22259343
Fax: 080-22352616

Lr.No. APSPCL/MD/DE(T)/E.SRPC/D.No.514/2018, dt. 04.04.2018

Sir,

Sub: APSPCL – Evacuation of power from Ananthapuramu Ultra Mega Solar Park
(1500 MW) – Reg.

Andhra Pradesh Solar Power Corporation Pvt Ltd (APSPCL) is a Joint Venture Company formed between Solar Energy Corporation of India Limited (SECI), Andhra Pradesh Power Generation Corporation Limited (APGENCO) and New & Renewable Energy Development Corporation of Andhra Pradesh Ltd (NREDCAP) for development of Solar Parks in the State of Andhra Pradesh.

Ananthapuramu Ultra Mega Solar Park at N.P. Kunta Mandal of Ananthapuramu district is being developed by APSPCL to establish total 1500 MW capacity of solar projects by various Solar Power Developers under various MNRE schemes as detailed below.

- i) 250 MW solar project was already commissioned by NTPC under EPC mode in year 2016
- ii) 500 MW proposed to be developed under VGF Scheme, SECI has already selected SPDs through ICB to establish 400 MW solar projects as flows:
 - a) M/s. ACME..... 150 MW
 - b) M/s. TATA Power..... 100 MW
 - c) M/s. FRV 100 MW
 - d) M/s Azure 50 MW
 SPDs for balance 100 MW yet to be identified by SECI
- iii) For balance 750 MW capacity, NTPC has issued NIT on 09.03.2018 for selection of Solar Power Developers and is likely to be commissioned by June 2019.

APSPCL is creating all infrastructure facilities including Internal Evacuation system by establishing 220/33kV Pooling substations of each 250 MW inside the solar park to evacuate entire 1500 MW solar power from this solar park.

External Power Evacuation System for evacuation of 1500 MW capacity from this Solar Park was established by PGCIL i.e., CTU by setting up 400/220 kV grid substation within the Solar Park at N.P. Kunta village. The necessary approvals for LTA & Connectivity approvals from PGCIL (CTU) have already been taken by PGCIL.

In this connection, it is to inform that the Interconnection point and tariff metering for 250 MW solar project which was already commissioned by NTPC is on 33 kV side of 220/33 kV Pooling Substation established by APSPCL as per the guide lines/regulations prevailed at that time. Scheduling and forecasting for the power generated from this project is being done by APSLDC since the power generated from the project is purchased by APDISCOMs as per the PPA entered with NTPC.

Out of 500 MW capacity proposed to be developed under VGF, 400 MW Solar Projects are under development and are likely to be commissioned in the month of April/May 2018. 3 Nos. of 220/33 Pooling Sub Stations of each 250 MW, 50 MW and 100 MW and its associated 2 Nos. 220 kV DC lines connecting to 400/220 kV PGCIL grid substation are likely to be charged by end of April, 2018.

As per the revised guide lines/regulations the Interconnection point and tariff metering is on 220 kV Side of 400/220 kV grid substation of PGCIL i.e., CTU at N.P. Kunta site. Solar Energy Corporation of India Ltd (SECI) has entered Power Sale Agreement (PSA) with APDISCOMs for sale of power generated from 400 MW Solar Projects. In turn SECI has entered Power Purchase Agreement (PPAs) with selected SPDs as above.

With the commissioning of 400 MW capacity at Galiveedu site, total capacity of 650 MW including existing 250 MW capacity will be evacuated through PGCIL 400/220 kV Grid Substation. Entire 650 MW capacity will be scheduled to APDISCOMs as per the existing PPA/PSA.

Further to inform that, minimum 10% of total 1500 MW solar power generated in this park shall be given to out of the state.

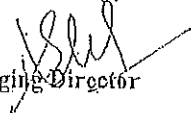
In view of the above, a decision is to be taken on the following issues regarding evacuation of solar power generated from Ananthapuramu Ultra Mega Solar Park (1500 MW).

- i) Whether 650 MW (250 + 400) capacity generated from the Solar Park is scheduled by APSLDC or SRLDC since the entire 650 MW capacity is purchased by APDISCOMs as per the existing PPA with NTPC for 250 MW and PSA with SECI for 400 MW.
- ii) Whether this solar park comes under SRLDC purview or APSLDC purview. Presently it is under the purview of APSLDC and tariff metering is at 33kV side of 220/33kV Pooling substation
- iii) If Scheduling is done by APSLDC, then the responsibility for down loading data from tariff meters located at 220kV side of 400kV Grid substation of PGCIL and energy accounting is to be clarified.
- iv) If scheduling is done by SRLDC, the responsibility the impact of Deviation Settlement Mechanism on different entities may also be clarified.

- v) Presently the real time/SCADA data is being transmitted to APSLDC from 220/33kV Pooling Substations of APSPCL through PGCIL 400/220kV Grid substation and SRLDC.
- vi) Procedure to be followed for transmission of Data to APSLDC/SRLDC from SCADA of 220/33kV Pooling Stations may be clarified.
- vii) PGCIL may be advised to install tariff meters at 220 kV side of 400 kV grid substation as per the CERC/APERC metering code.
- viii) After the entire capacity of 1500 MW is commissioned and if there is any interstate sale agreement for minimum capacity of 10% of total capacity, the procedure to be followed may also be examined.


Hence, it is requested to include the above points in the agenda of next OCC /special meeting conducted by SRPC meeting conducted by SRPC and all the related parties (NTPC, SECI, PGCIL, APSLDC and APTRANSCO, APPCC) may be invited to discuss operational /Scheduling/metering/commercial at the meeting for taking decision.

Yours faithfully,


Managing Director

Copy to
Executive Director/PGCIL/SR-1/Hyderabad
General Manager/SRLDC/ Bangalore-560 009.
Chief Engineer/APSLDC, Vidyut Soudha, Gunadala, Vijayawada-04
Chief Engineer/APPCC, Vidyut Soudha, Gunadala, Vijayawada-04

(1/2)

भारत सरकार केंद्रीय विद्युत प्राधिकरण दक्षिण क्षेत्रीय विद्युत समिति बेंगलूरु - 560 009	 सत्यमेव जयते	Government of India Central Electricity Authority Southern Regional Power Committee Bengaluru - 560 009	
Web site: www.srpc.kar.nic.in	e-mail: mssrpc-ka@nic.in	Ph: 080-22287205	Fax: 080-22259343
सं/No. SRPC/SE-II/2018	११२-१५	दिनांक / Date	06.04.2018

General Manager
SRLDC
Bengaluru
Sir,

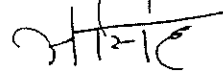
Sub: APSPCL - Evacuation of power from Ananthapuramu Ultra Mega Solar Park (1500 MW)-reg

As you are kindly aware that APSPCL vide letter dated 04.04.2018 (copy enclosed for ready reference) has sought certain clarifications in regard to evacuation of Solar power generated from Ananthapuramu Ultra Mega Solar Power Park (1500 MW). APSPCL has requested to include the above in the agenda of the next OCC / Special meeting. However, it may be noted that SRLDC vide letter dated 10.04.2017 (copy enclosed for ready reference) had raised certain observations in respect of scheduling of Adani Solar Power Projects of Kamuthi in Tamil Nadu. Since there may be similar scheduling issues involved, SRLDC may kindly communicate their views/stand on the scheduling issues raised by APSPCL for SRPC to take further action in this regard.

धन्यवाद /Thanking you,

संलग्न : यथोपरि / Encl: As above

भवदीय / Yours faithfully



(असित सिंह / Asit Singh)

अधीक्षक अभियंता / Superintending Engineer

Copy to:

1. Managing Director, APSPCL, Hyderabad
2. Chief Engineer, APSLDC, Vidyut Soudha, Gunadala, Vijayawada

क.स.ए.ए. मालूम
००
११/४

(2/2)

Kamuthi Fe

ANNEXURE - LVII

POWER SYSTEM OPERATION CORPORATION LTD.
(A Government of India Enterprise)
SOUTHERN REGIONAL LOAD DESPATCH CENTRE
29, Race Course Cross Road, Bangalore-560 009
CIN No. U40105DL2009GOI108682



No.SRLDC/SO-II/Legal/2017

10.04.2017

The Member Secretary
SRPC
Bangalore

Sub: Scheduling and dispatch of Adani Solar Power Project at Kamuthi in Tamil Nadu
Ref: 1. CEA/E&C/3/51/2017/Legal/207 dt.30.03.2017 addressed to MS, SRPC

Sir,

This has reference to above subject matter & referred letter of CEA, conveying that subject Solar Power Project may be scheduled by SRLDC under the provisions of IEGC (Regulation 6.4.2(b)).

Notwithstanding the legal opinion submitted by M/s Adani Green Energy (Tamil Nadu) Limited (AGEL) and opinion of CEA, the interpretation of the Clause 6.4.2(b) has to be done by a quasi-judicial body or Courts of Law rather than by the Executive. As per our understanding, in the terms of the Companies Act, a "company" means a company formed and registered under the Companies Act. Each company is a different "legal person" or "legal entity". In other words, the parent/holding company cannot substitute for the subsidiary companies. Therefore, in the present case the parent company i.e. AGEL cannot substitute for the four subsidiary companies as a single entity.

Further, as per DSM Regulations, deviation charge for Regional entity wind/solar generators is with reference to "Fixed rate". The Fixed rate is the PPA rate as determined by the Commission under Section 62 or as adopted by the Commission under Section 63. "Commission" has been defined as the "Central Commission" in the DSM Regulations and accordingly, the PPA rates must be those determined/adopted by the Central Commission. In the instant case, the tariff petitions have been filed before TNERC and thus, the rates are not applicable for settlement of deviations under the CERC DSM Regulations.

It is reiterated that SRLDC can schedule power from AGEL and its subsidiaries. However, in order to avoid any difficulties at a later date, it is suggested that M/s AGEL may seek CERC's directions resolving the above mentioned difficulties before SRLDC can begin scheduling of the generating station under IEGC Regulation 6.4.2(b).

Thanking you,

Yours faithfully,

G. Anubhavan
Additional General Manager (I/C)

COPY TO

- 1) CE, LD, TANTRANSCO
- 2) AGEL