

Ref: RA/II/002/20-21/2088

06th November, 2020

The Secretary,
West Bengal Electricity Regulatory Commission,
Plot No. -AH/5 (2nd Floor & 4th Floor), Premises No. MAR 16-1111,
Action Area - 1A, New Town,
Rajarhat, Kolkata- 700163

Sub: Application for approval of Long Term Power Sale Agreement executed on 15.01.2020 by and between India Power Corporation Limited (IPCL) and Solar Energy Corporation of India Limited (SECI) for purchase of 100 MW Hybrid Power by IPCL, for a period of 25 years
[Case no. PPA-103/20-21]

- Ref: 1) Our letter no. RA/II/002/20-21/2032 dated 01.06.2020
2) Your letter no. WBERC/PPA-103/20-21/6030 dated 21.09.2020
3) Our letter no. RA/II/002/20-21/2080 dated 05.10.2020
4) Your letter no. WBERC/PPA-103/20-21/6135 dated 15.10.2020

Respected Sir,

Vide letter dated 21.09.2020 received from Hon'ble Commission in the aforesaid subject matter, the Hon'ble Commission had sought few clarifications. The response on the same in seriatim is as follows:

- 1) It is humbly submitted that despite the intermittent nature of the renewable power, the present proposal on solar-wind hybrid generation offers higher Capacity Utilisation factor (CUF) and better average hourly combined Solar and Wind Generation Curve/profile compared to stand alone solar or stand alone wind power.

Further, it is observed from a typical generation profile of a 300 MW solar wind hybrid RE plant and our typical load drawl pattern at J K Nagar 220KV for a said day that the projected hybrid RE generation curve and IPCL's drawl curve will complement each other. The representative graphs are shown in Annexure-A.

As part of our power procurement, scheduling and load management in our license area, we have a dedicated 24x7 control room responsible for scheduling and despatch of power, which continuously monitor the schedule and drawl of power including from our J K Nagar 220/33 KV substation. With the inclusion of higher percentage of hybrid RE power (MW) in our overall power portfolio, our control room will keep a strict vigil on the schedule a actual energy drawl and take necessary action as deemed required under the PPA and applicable grid regulations. It shall be our endeavour to ensure through proper scheduling to make sure that any deviation under DSM is within acceptable limits and as per the provisions of applicable regulations and grid code.

In this regard, it is further submitted that that as per clause 6.1.1 of the PPA between Hybrid Power Developer (HPD) and SECI, timely schedule from SECI/HPD shall be provided in accordance with applicable regulations and forecasting & scheduling guidelines of CERC/SERC/SLDC/RLDC in order to have minimum deviation in injection & drawl schedule. Further as per clause 6.1.3 of the PPA between HPD & SECI, any deviation in injection schedule under DSM will be borne by HPD and our Control Centre shall be working in conjunction with the above provision.



India Power Corporation Limited

CIN - L40105WB1919PLC003263

Registered Office : Plot No. X1 - 2 & 3, Block - EP, Sector - V, Salt Lake City, Kolkata - 700091

Ph : +91 33 6609 4300 / 08 / 09 / 10 , Fax : +91 33 2357 2452

Central Office : Sanctoria, P.O. - Dishergarh, District - Burdwan, Pin - 713333 (W.B.)

Ph : (0341) 6600452 / 454 / 455 / 456 / 457, Fax : (0341) 6600464

E-mail : pr@indiapower.com, Web : www.indiapower.com

Further with the implementation of Real Time market, it will be our endeavour to ensure that the situation of any mismatch can be mitigated using the said mechanism.

- 2) It is humbly submitted that the proposal for construction of a second 220KV D/C line from the proposed Raghunathpur 400/220KV substation or any nearby substation of WBSETCL to J K Nagar substation for release of further 250 MVA power was shelved long ago. However, IPCL has applied before WBSETCL for enhancement of drawl capacity from 130 MVA to 180 MVA through J K Nagar 220 KV line.
 - a. It is hereby confirmed that the existing capacity at 220 KV J K Nagar substation is sufficient for drawl of 100 MW Hybrid power on long-term basis.
 - b. STU has recently granted NOC for LTOA subject to the condition that IPCL shall enter into LTOA agreement with STU after grant of LTOA to the Hybrid Power Developer (HPD) by CTU. A copy of the NOC granted by STU is placed before the Hon'ble Commission as Annexure-B.

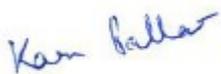
- 3) It is humbly submitted that the proportion of solar and wind capacity in the aforesaid 100 MW Hybrid power quantum is 75 % Solar and 25% Wind in terms of project capacity in terms of MW. As per clause 2.9.2 of PSA between IPCL & SECI, the SECI shall provide a certificate identifying the quantum of energy supplied by SECI within 30 days after the end of each year. As per PPA, we are obligated to offtake minimum 259 MU per annum and upto 389 MU per annum. As per the PSA minimum of around 259 MUs of hybrid energy per annum will be available to IPCL. Based on the projection from HPD, this shall translate into MU contribution of 77% from Solar and 23% from Wind, which shall be sufficient to meet our Solar RPO as well as Total RPO (including Solar) target for the initial ensuing years upon commencement of supply based on the load projection and target specified in the current RE regulation of the Hon'ble Commission. However, the above RPO fulfilment status may undergo change based on whenever the fresh RPO targets are notified by the Hon'ble Commission.

We hope, we have been able to provide the clarification suitably. In case of any further clarification required, we are ready to provide the same.

Thanking You.

Yours Sincerely

For India Power Corporation Limited

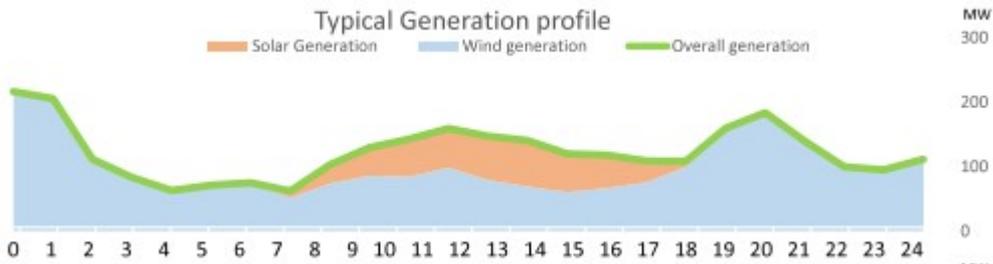


Karn Pallav

General Manager (Regulatory Affairs)

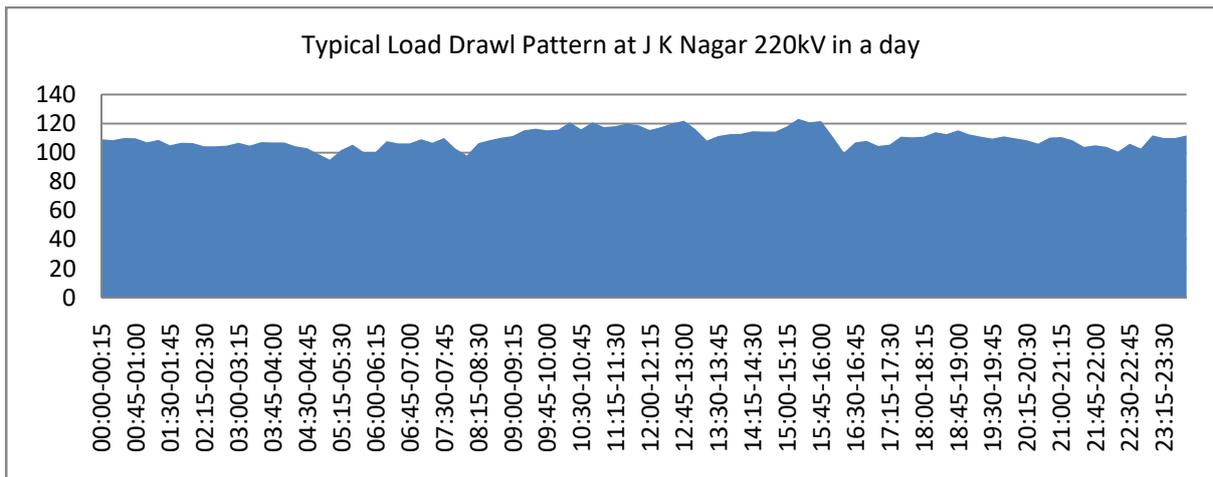
Encl.: As above

1. Typical Generation Profile of a 300 MW solar-wind Hybrid RE plant



Source : HPD projection

2. Typical Load Drawal Pattern of IPCL at J K Nagar 220KV in a day



Source : Drawl data for 19.01.2020





West Bengal State Electricity Transmission Company Ltd.

(A West Bengal Government Enterprise)

CIN : U40101WB2007SGC113474

Office of the Chief Engineer
Central Planning Department

FAX : 033 2359-1955

Telephones : 033 2359-2652, 033 2319-7359

E-Mail : cpd@wbsetcl.in ; cpd.wbsetcl@gmail.com

Vidyut Bhavan (9th Floor)

Block - DJ, Sector - II

Bidhannagar, Kolkata - 700 091

Ref. No. : CE/CPD/LTOA/132

Date : 10/06/2020

To,

The Vice President – Power Management,

India Power Corporation Ltd.,

Plot No. X1-2&3, Block – EP, Sector – V,

Salt Lake City, Kolkata – 700 091.

Sub. : NOC for Long Term Access (LTA) from STU for receiving 100 MW Hybrid Power through SECI.

Ref. : Your letter no. Comm/HO/WBSETCL/19-20/014, Date – 17/02/2020.

Our letter no. CE/CPD/LTOA/67, Date – 24/02/2020

Your e-mail dated 17/004/2020

Dear Sir,

This has reference to your letter under reference in connection with above mentioned subject matter.

In this regard, we are submitting the NOC as per prescribed format for further action please.

Encl : NOC – one no.

Yours faithfully,

(A Karmakar)

Chief Engineer : CPD

