



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति

Eastern Regional Power Committee

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No: ERPC/MS/ 2018/4862-65

Date: 28.03.2018.

FAX MESSAGE NO. – 123

From: Member Secretary, ERPC, Kolkata.

To:

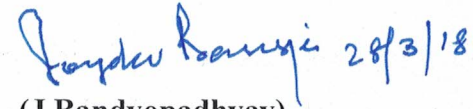
1. Executive Director, ERLDC, POSOCO, Kolkata.
2. General Manager I/C, NLDC, POSOCO, Katwaria Sarai, New Delhi.
3. Executive Director (Marketing), PTC LTD., Bhikaji Kama Place, New Delhi with a request to circulate among the concerned organizations of Bhutan.
4. General Manager I/C, (ER - II), PGCIL, CF – 17, New Town, Rajarhat, Kolkata.

Sub: Minutes of Special meeting for issues related to Bhutan – Reg.

Please find herewith enclosed the minutes of Special meeting for “**Issues related to Bhutan**” held on **27th March, 2018 (Tuesday)** at **ERPC Conference Hall, Kolkata**. The same is also available at ERPC website (<http://www.erpc.gov.in/>).

Observations, if any, may please be forwarded to this office at the earliest.

Regards,


(J. Bandyopadhyay)
Member Secretary

Eastern Regional Power Committee, Kolkata

Minutes of the Meeting held on 27.03.2018 at ERPC, Kolkata on issues related to Bhutan.

List of Participants in the meeting is given in Annexure.

Shri Joydeb Bandyopadhyay, Member Secretary, ERPC welcomed the participants in the meeting to discuss some outstanding issues with Bhutan. He specially welcomed the representatives of DGPC, BPC and NLDC Bhutan in the meeting. He then took up the agenda items for discussion.

1. **Scheduling of Bhutan Hydro Power:** Member Secretary mentioned that the injection pattern of power from Tala and Chukha hydro generating stations of Bhutan at the Indian periphery is not in accordance with the load pattern of Eastern Region, who is the major beneficiary of the Bhutan Power. The meeting has been convened to explore the possibility of full exploitation of benefits like maximization of generation during peak hours etc. associated with the hydro stations.

Executive Director, ERLDC observed that, with the infusion of 175 GW of RES into the Indian Grid, the operations of the hydro stations assumed an important dimension to account for the variability and uncertainty associated with RES generation .

Director, DGPC, Bhutan submitted that schedule given by NLDC, Bhutan was adhered to by the generators of Bhutan. He also submitted that varying of generation to the extent of upto 30% during peak hours can be made with the running units. If frequent start – stop operations of the machines are resorted to, there would be technical problem including efficiency loss as well as involvement of additional cost. This aspects need to be looked into, if all the available machines are required to be operated during the peak hours.

The entire process of scheduling of DGPC was discussed in details in the meeting. During the course of discussion it emerged that, there are scope of increased cooperation between NLDC India and NLDC Bhutan. As a first step towards introduction of comprehensive scheduling methodology for Bhutan Power, the followings were decided in the meeting:

- i) NLDC, Bhutan and DGPC would depute a few engineers to ERLDC to get glimpse of the operation of the Indian Grid and to accustom themselves with the web based scheduling methodology being undertaken by ERLDC, so that the same web based scheduling can also be introduced for injection of Bhutan Power into the Indian Grid for the benefits of both the countries.
- ii) Tala, Chukha and Kiruchu would provide the daily energy availability (in MU) including the Maximum Generation and Minimum Generation (in MW) to NLDC, Bhutan who after taking into account the Bhutan load would provide the proposed plant wise injection schedule ex - Indian Periphery to NLDC, India / ERLDC, Kolkata. Thereafter, NLDC, India in consultation with ERLDC, Kolkata would moderate the injection schedule and inform NLDC, Bhutan the finalized day ahead plant wise injection schedule ex- Indian Periphery.

2. **Communication link between NLDC Bhutan to Back up NLDC India (ERLDC):** It was decided that the representatives of GE of both the countries would interact with each other and resolve the issue at the earliest. Necessary coordination in this respect would be done by NLDC India and NLDC Bhutan. If required, a coordination meeting would be convened by NLDC, India for addressing and solving the issue of data and voice communication.

3. **Insulator replacement of 220kV Chukha – Birpara D/c line:** Representative of BPC pointed out that all the failures of 220 kV Chukha – Birpara D/c line in the geographical area of Bhutan cannot be attributed solely to failure of porcelain insulator. In case of failure of the transmission line BPC makes a detail analysis to ascertain the cause of failure. In case, the failure is due to porcelain insulator, the same is replaced with the glass insulator. Because of the financial implication, BPC is against mass replacement of

porcelain insulator. Further, during periodic inspection if any insulator found to be damaged, the same is replaced with glass insulator.

Member Secretary, ERPC submitted that, the focused objective is maximization of the availability of the line for ensuring the evacuation of Bhutan Power into India. Bhutan is at liberty to take any measure as deemed fit for ensuring maximum availability of the transmission line.

It was further decided that ERPC, ERLDC, PTC, POWERGRID and NLDC, India would sit with the Bhutan representatives more frequently for addressing any issue concerning transaction of power between Bhutan and India.

Meeting ended with vote of thanks to the Chair.

Attendance Sheet

MEETING ON ISSUES RELATED TO BHUTAN

VENUE: ERPC CONFERENCE ROOM, KOLKATA

TIME: 11:00 HRS

DATE: 27.03.2018 (TUESDAY)

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