

I/11538/2020



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

के द्री य वि द्यु त प्रा धि करण

Central Electricity Authority

वि द्यु त प्र णा ली यो जना एवं मू ल्यां कन प्र भा ग-II
Power System Planning & Appraisal Division-II

सेवा में/To

संलग्न सूची के अनुसार

As per list enclosed

विषय : उत्तर पूर्वी क्षेत्रीय विद्युत समिति (पारेषण योजना) (उपक्षेविसपायो) की दूसरी बैठक की अतिरिक्त कार्यसूची।

Subject: 2nd meeting of North Eastern Regional Power Committee (Transmission Planning) (NERPCTP) – Additional Agenda.

महोदय(Sir)/महोदया(Madam),

Additional agenda items for the 02nd meeting of NERPC-TP received from CTU (Annex-I) and NERPC (Annex-II) vide emails dated 18.09.2020. The above agenda items are compiled and enclosed at **Annexure** for discussion in the forthcoming meeting of NERPC-TP.

भवदीय/Your faithfully,

Encl.: As above.

(बी.एस.बैरवा/B.S.Bairwa)

निदेशक/Director

I/11538/2020

List of Addresses:

1.	The Member Secretary, North Eastern Regional Power Committee(NERPC), Meghalaya State Housing Finance Co-Operative Society Ltd. Building Nongrim Hills, Shillong (Meghalaya) – 793003	2.	The Managing Director, Assam Electricity Grid Corporation Limited, Bijulee Bhawan; Paltan Bazar, Guwahati (Assam) – 781001.
3.	The Chairman-cum-Managing Director, Tripura State Electricity Corporation Limited, Bidyut Bhawan, Banamalipur, Agartala, Tripura.	4.	The Chairman-cum-Managing Director, Meghalaya Energy Corporation Limited, Lum Jingshai, Short Round Road, Shillong (Meghalaya) – 793001.
5.	The Managing Director, Manipur State Power Company Ltd. (MSPCL), Electricity Complex, Patta No. 1293 under 87(2), Khwai Bazar, Keishampat, District – Imphal West, Manipur – 795001	6.	The Chief Engineer (Power), Vidyut Bhawan, Department of Power, Zero Point Tinali, Itanagar (Arunachal Pradesh) – 791111.
7.	The Chief Engineer (T&G), Department of Power, Electricity House, A.G. Colony, Kohima, Nagaland- 797001	8.	Engineer-in-Chief Power & Electricity Department, Kawlphepha Building, New Secretariat Complex, Khatla, Aizawl Mizoram- 796001
9.	COO(CTU-Planning), Power Grid Corporation of India Ltd., “Saudamini” Plot no-2, Sector-29, Gurugram- 122001, Haryana	10.	Director (System Operation), POSOCO, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi – 110016.
11.	Chairman-cum-Managing Director NTPC Limited, NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road,New Delhi – 110003	12.	Chairman-cum-Managing Director NHPC Limited, N.H.P.C. Office Complex, Sector-33, Faridabad - 121003 (Haryana)
13.	Chairman, Solar Energy Corporation of India Limited, 1st Floor, D-3, A Wing, Prius Platinum Building, District Centre, Saket, New Delhi - 110017.	14.	The Chairman and Managing Director North Eastern Electric Power Corporation Ltd. Brookland Compound, Lower New Colony, Shillong (Meghalaya)- 793003

Additional Agenda for the 02nd meeting of NERPC-TP:

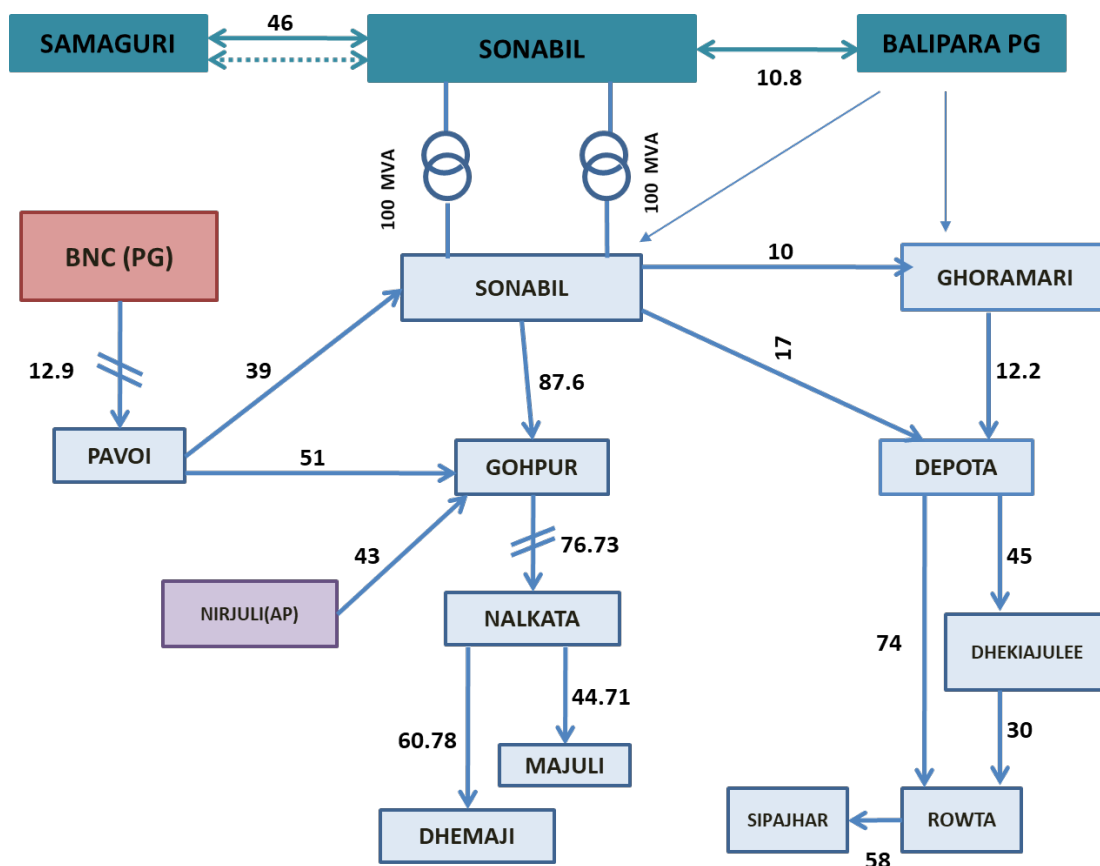
ToR IV– REVIEW OF UPSTREAM AND DOWNSTREAM NETWORK

Agenda items by CTU:

27. Under-utilization of 2x160MVA, 220/132kV ICTs at Balipara

27.1. In the joint Standing Committee Meeting of ER and NER, held on 03-01-2014, replacement of existing 2x50MVA, 220/132kV ICTs (one owned by AEGCL and other owned by NEEPCO) by 2x160MVA, 220/132kV ICTs at Balipara 400/220/132kV sub-station of POWERGRID along with replacement of 132 kV equipment was agreed. The same has been commissioned in Sep'17 and Apr'20. These augmentation were carried out to feed the growing demand in the load centres of Khupi (Arunachal), Depota/Ghoramari (Assam) and Sonabil/Gohpur (Assam).

27.2. In the Joint study meeting of CEA regarding intrastate proposals of Assam held on 09-09-2020, AEGCL informed that they were not able to serve their increasing demand due to congestion in the ICTs. Accordingly, AEGCL had removed their 132kV lines from Balipara S/s by bypassing the Sonabil – Balipara 132kV line with Balipara - Ghoramari 132kV line to form Sonabil – Ghoramari 132kV line (Schematic enclosed). The same was approved in the OCC meeting of NERPC.



I/11538/2020

27.3. Due to the above rearrangement, the only drawal line available at 132kV level of Balipara substation is Balipara – Khupi 132kV line. The power flow on this line is in the range of 15-20MW. Therefore, the augmentation of transformation capacity at Balipara substation is of no use at present and is a waste of national resource.

27.4. Members may discuss.

28. Bay rearrangement at 132/33kV Sihmui S/s

28.1. In the 3rd Meeting of Standing Committee on Power System Planning of North Eastern Region held on 21-12-2011, it was decided that POWERGRID would implement Melriat (PG) – Sihmui (Mizoram) 132 kV D/C line alongwith bays at both ends matching with the commissioning of Sihmui substation of Mizoram under Palatana – Bongaigaon Transmission Scheme for delivery of Mizoram's share from Palatana GBPP. The same was commissioned in May'17.

28.2. P&E Deptt, Mizoram expressed their concern that terminating the subject line in the bays constructed by POWERGRID at Sihmui sub station would obstruct entry of other proposed lines (of State deptt.) in to the switchyard.

28.3. Based on the mutual discussion between POWERGRID and P&E Dept. Govt of Mizoram, the following was agreed:

- (i) P&E Deptt. would utilize the 02 (two) nos bays constructed by POWERGRID for their use.
- (ii) P&E Deptt. Mizoram would construct 02 (two) nos bays for the use of POWERGRID's Melriat(PG) – Sihmui (state) 132 kV D/c Line
- (iii) Untill the new bays are constructed, POWERGRID would temporarily use the two existing bays of Mizoram, originally meant for their Melriat and Luangmual Lines.

28.4. Members may approve.

ToR-V: EXAMINE AND EVALUATE INTRA-STATE PROPOSALS
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Agenda items by NERPC:

29. Restoration of Kopili Substation:

- A. In the 168th OCC meeting the Ownership of bays were confirmed and agreed with NEEPCO as per the following:
 - I. POWERGRID Ownership -
 - 1. 220kV ICT-II (existing) Bay incl. 160MVA 220/132kV Transformer
 - 2. 132kV ICT-II (existing) Bay
 - 3. 132kV Khandong-I Bay
 - 4. 132kV Khandong-II Bay
 - II. NEEPCO Ownership

I/11538/2020

1. 220kV Generator-I Bay
2. 220kV Generator-II Bay
3. 220kV Generator-III Bay
4. 220kV Generator-IV Bay
5. 220kV Misa-I Bay*
6. 220kV Misa-II Bay*
7. 220kV Misa-III Bay*
8. 220kV Bus Coupler Bay
9. 132kV Station Service Transformer Bay (to be converted to GIS) including 5MVA, 132/33kV Transformer

* Ownership of only PLCC Panels of these feeders are with POWERGRID.

Apart from the above, ownership of following bays, ownership of which was with NEEPCO earlier shall now be with POWERGRID after replacing of equipment and commissioning (under NERSS-III scheme):

1. 220kV ICT-I (new) Bay incl. 160MVA 220/132/33kV Transformer
2. 220kV ICT-I (new) Bay

Further, ownership of all 132kV GIS Bays being installed under NERSS-III scheme shall be with POWERGRID.

During 168th OCC meeting it was further informed that with normal AIS, one 220kV line, one 132kV line and one 160MVA ICT can be restored within 90 days i.e.3 months period i.e by Nov'20. POWERGRID also informed that possibility of hiring one Mobile 220kV GIS Bay and one Mobile 132 kV GIS Bay for temporary restoration was also explored. However, the modular GIS would entail an expenditure of INR 8.04 Cr and would be completed in a timeframe of 6months including supply and installation.

After detailed deliberation the forum considering the importance from grid perspective and urgency of the restoration, approved in-principle restoration via AIS.

B. Now the following agenda is proposed for 2nd NERPCTP meeting:

1. Temporary restoration of Khangdong-Kopili-Misa Link by energizing the following:
 - a. 1 no of 132kV line along with Bay
 - b. 1 no of 220kV line along with bay
 - c. 1 no of 160MVA ICT

Considering the present Covid-19 travel restriction, the completion period for above temporary arrangement may be considered as Jan'21.

2. Permanent restoration Plan:

Restoration of both AIS and GIS bays (GIS bays is under NERSS-III).

Tentative Time period: July'2022

3. Estimated cost (SI No: 1 + SI No: 2)

a) AIS Part (restoration due to damages for devastation in Kopili HEP in October, 2019):

Electrical equipment and associated works: INR 674.52 lakhs

Civil works: INR 104.094 lakhs

b) GIS Part (for Damaged portions due to devastation in Kopili in October, 2019): yet to be ascertained.

I/11538/2020

- c) All the cost to be incurred (as per actual expenditure) against Temporary and Permanent restoration (including AIS and GIS) are to be realized under PoC mechanism

30. Special Protection Scheme in NER: - NERLDC

Presently numerous SPSs are in operation in NER for N-2 contingency. Amongst these for all SPSs except 2 (TWO) Nos. transmission infrastructure have already been approved by SCM which are in various stages of implementation. Subsequent to the completion of the projects these SPSs designed for N-2 shall be decommissioned

For the two numbers stated above, additional infrastructure needs to be planned by NERPC-TP:

SPS Contingency	SPS Contingency	Remarks
When any one of 132 kV Umiam Stg-I to Umiam Stg-III D/C line trips)	Load shedding of about 30 MW near Umiam. Revised scheme is under implementation	Reconductoring of 132 kV Umiam I – Umiam III D/C with HTLS conductor may be planned
Tripping of both 400 kV BgTPP – Bongaigaon I & II lines (D/C)	The scheme will reduce BgTPP Generation to 600 MW and is under implementation	Additional 400kV evacuation path from BgTPP may be planned.

NERPC may present

Members may discuss.

31. Line In Line Out of 400 kV D/C Silchar-Byrnihat along with 400/220 kV 2x315 MVA, 220/132 kV 2x160 MVA substation at Mynkre

The 400 kV D/C Silchar - Bymihat line within 2 km distance from the Mynkre substation. The 132/33kV, 2x50 MVA Substation at Mynkre, East Jaintia Hills District under construction is expected to be completed within 1 (one) year depending on settlement of RoW issues. The substation is a part of the NERSIPS funded by World Bank and being executed by Powergrid.

As per the Scheme, the substation will be connected initially by LILO 132 kV D/C Myntdu-Leshka HEP (126 MW)-132 kV Khliehriat Line at Mynkre.

After the commissioning of the Substation, the following existing/new 132 kV Lines will be connected to the Substation:

1. 132 kV Lumshnong Substation;
2. 132 kV Amrit Cement Industries Limited with a connected load of 10 MW
3. 132 kV Hills Cement Limited with a connected load of 10 MW
4. 132 kV Green Valliey Industries Limited with a connected load of 10 MW
5. 132 kV Gold Stone Cement Limited with a connected load of 10 MW

I/11538/2020

6. 132 kV Meghalaya Cement Limited with a connected load of 10 MW and future enhancement of 27.0 MW

The 220 kV D/C line for power evacuation from the Myntdu-Leshka HEP Stage-II project (210 MW) to be executed by Meghalaya Power Generation Corporation Limited (MePGCL) is proposed to be connected at Mynkre substation.

Other Hydel Project that are in the planning stage are Umngot (210 MW) allotted to JP Pvt. Ltd. and Selim (80 MW) allotted to MePGCL are proposed to be connected with Mynkre substation.

Further, the State of Meghalaya has directed MePTCL to augment and strengthen the lines and substation at Bangladesh border for providing transmission corridor and exporting of surplus hydel power to Bangladesh. In this regard, a survey for 220 kV D/C Line from Mawphlang to Cherra and 220 kV Line on 400 kV towers to be charged initially at 220 kV from Cherra -Ichamati along with construction of 400/220 kV 2 x 316 MVA Substation at Ichamati for exporting of power to Bangladesh (Bangladesh border) which is very near to Chattah and Sylhet load centre of Bangladesh.

The 220 kV DIC Line from Nangalbibra (PGCIL) to Mawphlang agreed in the 1 meeting of North Eastern Region Standing Committee on Transmission (NERSCT) for planning of Transmission to be taken by MePTCL as intra-state lines is proposed to be constructed on 400 K towers from Nangalbibra (PGCIL) to (Cherra to be charged initially at 220 kV. The Lines will provide 400 kV connectivity from Bogaigoan through Nagalbibra to Ichamati whenever the line from Bogaigoan to Nagalbibra is charged at 400 kV.

Further, construction of 400 kV D/C Line from Ichamati to Mynkre is also proposed for the strengthening the 400 kV network for reliability and exporting of power to Bangladesh.

Meghalaya may present. Members may discuss.

32. Line In Line Out of 400 kV D/C Silchar -Byrnihat along with 400/220kV 2x315 MVA, substation at New Shillong

The 400 kV DC Silchar Byrnihat line within 5 km distance from the New Shillong substation

The 220/132 kV, 2 x 160 MVA, 132/33kV, 2x50 MVA Substation at New Shillong, East Khasi Hills District under construction is expected to be targeted to be completed by December 2020 year depending on settlement of RoW issues. The substation is a part of the NERSIPS funded by World Bank and being executed by Powergrid.

As per the Scheme, the substation will be radially connected by the 220 kV D/C Mawngap New Shillong Line targeted to be completed by December 2020 year depending on settlement of RoW issues. Construction of 400 kV Line In Line Out

I/11538/2020

(LILO) of Silchar -Byrnihat at New Shillong and construction of 400/220 kV 2 x 316 MVA Substation at New Shillong for strengthening the 440 & 220 kV network of the state and to meet the increasing load demand and to provide reliability power supply to Shillong as well as enhancing power export to Bangladesh.

Meghalaya may present. Members may discuss.
