



भारत सरकार Government of India

विद्युत मंत्रालय Ministry of Power

उत्तर पूर्वी क्षेत्रीय विद्युत समिति

North Eastern Regional Power Committee

एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय
NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya

Ph. No: 0364 - 2534039

Fax No: 0364 - 2534040

Website: www.nerpc.nic.in

No. NERPC/SE (O)/OCC/2020/2690-2726

Dated: December 30, 2020

To,

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Managing Director, APDCL, Bijuli Bhawan, Guwahati – 781 001
3. Managing Director, APGCL, Bijuli Bhawan, Guwahati – 781 001
4. Director (Generation), Me. PGCL, Lumjingshai, Short Round Road, Shillong – 793 001
5. Director (Distribution), Me. ECL, Lumjingshai, Short Round Road, Shillong – 793 001
6. Director (Transmission), Me. PTCL, Lumjingshai, Short Round Road, Shillong – 793 001
7. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal – 795 001
8. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001
9. Director (Tech.), TSECL, Banamalipur, Agartala -799 001.
10. Director (Generation), TPGCL, Banamalipur, Agartala -799 001.
11. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
12. Chief Engineer (EE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
14. Engineer-in-Chief (P&E), Department of Power, Govt. of Mizoram, Aizawl – 796 001
15. Engineer-in-Chief (P), Department of Power, Govt. of Nagaland, Kohima – 797 001
16. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
17. Group General Manager, NTPC, Bongaigoan Thermal Power Project, P.O. Salakati, Kokrajhar- 783369
18. ED, NERTS, PGCIL, Dongtieh-Lower Nongraha, Lapalang, Shillong -793 006
19. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
20. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
21. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
22. Vice President (Plant), OTPC, Badarghat Complex, Agartala, Tripura - 799014
23. ED, NERLDC, Dongtieh, Lower Nongraha, Lapalang, Shillong -793 006
24. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066
25. Chief Engineer (NPC), GM Division, Central Electricity Authority, New Delhi – 110066

Sub: Minutes of 173rd OCC Meeting.

Sir/Madam,

Please find enclosed herewith the minutes of 173rd OCC Meeting held at NERPC's Conference Hall, Shillong on the **11th December, 2020** for your kind information and necessary action. The minute is also available on the website of NERPC, www.nerpc.nic.in.

Any comments/observations may kindly be communicated to NERPC Secretariat at the earliest.

Encl: As above

भवदीय / Yours faithfully,

बी. लिंगखोइ

बि. लिंगखोइ / B. Lyngkhoi

Copy to:

1. CGM, AEGCL, Bijuli Bhawan, Guwahati - 781001
2. CGM, APGCL, Bijuli Bhawan, Guwahati - 781001
3. CGM, DISCOM, Bijuli Bhawan, Guwahati - 781001
4. Head of SLDC, MeECL, Lumjingshai, SR Road, Umjarain, Shillong - 793022
5. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar - 791111
6. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur - 797103
7. Head of SLDC, MSPCL, Imphal - 795001
8. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl - 796 001
9. Head of SLDC, TSECL, Agartala - 799001
10. Chief Engineer(Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
11. DGM (O&M), OTPC, Badarghat Complex, Agartala, Tripura - 799014
12. Director, NETC, 1st Floor, Corporation Tower, AMBIS Mall Complex, NH-8, Gurgoan - 122001.

वी. लिंगखोड
निदेशक / **Director (O & P)**

North Eastern Regional Power Committee

MINUTES OF THE 173rd OPERATION COORDINATION

SUB-COMMITTEE MEETING OF NERPC

Date : 11/12/2020 (Thursday)
Time : 10:30 hrs
Venue : “NERPC Conference Hall”, Shillong.

The List of Participants in the 173rd OCC Meeting is attached at **Annexure – I**

Member Secretary, NERPC welcomed the participants to the 173rd OCC meeting. He informed the house that the presence of senior officers from constituents especially NERLDC & NERTS is required during the deliberation of critical issues, otherwise, the issues remain pending/unresolved for longer period. He requested that whenever important issues are to be discussed they should attend the meeting in future. He thanked the members for regularly attending the meeting over Video-Conferencing to resolve crucial issues of the region.

Thereafter Member Secretary requested Sh. B. Lyngkhoi, Director(O&P), NERPC to take up the agenda items for discussion.

A. CONFIRMATION OF MINUTES

**CONFIRMATION OF MINUTES OF 172nd MEETING OF OPERATION COORDINATION
SUB-COMMITTEE OF NERPC.**

The minutes of 172nd meeting of Operation Sub-committee held on 12th November, 2020 at Shillong were circulated vide letter No. NERPC/SE (O)/OCC/2019/2674-2711 dated 01st December, 2020.

The Sub-committee confirmed the minutes of 172nd OCCM of NERPC as no comments/observations were received from the constituents.

ITEMS FOR DISCUSSION

B.1. ACTION TAKEN:

1. IMPLEMENTATION OF PROJECTS FUNDED FROM PSDF:

The status as informed in 173rd OCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**	Line Differential Protection
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<p>Ar. Pradesh</p>	<p>Package-I (Diagnostic tools) Utilization certificate to be sent immediately. P-II (for PLCC & communication) LOA issued. Requisition for 30% to be sent immediately. P-III (Substation equipment) NIT by Dec'20</p> <p>Station-wise status to be updated</p>	<p>60% disbursement by Dec'20. Requisition for 3rd tranche sent.</p>	<p>-</p>	<p>TESG approval awaited</p>	<p>-</p>
<p>Nagaland</p>	<p>All completed except for PLCC package. Delayed due to COVID situation Station-wise status to be updated.</p>	<p>Second tranche of disbursed. Requisition to be sent for 3rd installment.</p>	<p>-</p>	<p>TESG approval awaited</p>	<p>Lines identified. Under DPR preparation stage.</p>
<p>Mizoram</p>	<p>Completed. 10% remaining claim to be submitted ASAP.</p>	<p>Final 10% requisition submitted.</p>	<p>To reply to TESG queries.</p>	<p>TESG approval awaited.</p>	<p>Lines identified for installation of DPR viz. 132kV Aizawl - Luangmual and 132kV Kawmzawl - Khawiva.</p>
<p>Manipur</p>	<p>Package-II: completed Package-I: WIP Delayed due to COVID situation Station-wise status to be updated.</p> <p>33kV System Integration with SLDC</p>	<p>60% disbursed. Final 10% requisition to be sent immediately.</p>	<p>LOA issued. Requisition to be sent for first tranche.</p>	<p>TESG approval awaited.</p>	<p>Lines identified. LDP for 132kV Imphal-Imphal and 132kV Jiribm-Jiribam proposed. Under DPR preparation stage.</p> <p>In tendering stage</p>

	Reliable Communications for grid connectivity	In tendering stage			
Tripura	Work completed. 10% remaining claim to be sent ASAP. Station wise status to be updated.	Requisition to be sent for 20% & 60% immediately.	Study results to be submitted alongwith DPR	TESG approval awaited.	Only single line 132kV 79Tilla to Budhjangn agar. DPR to be prepared.
Assam	LOA issued. WIP, delayed due to COVID situation Station-wise status to be submitted.	Requisition sent for 60% on 09 th Dec'20.	-	Under finalization stage for LOA.	Lines identified. Under DPR preparation stage.
Meghalaya	MePTCL Completed in all respects. MePGCL – 10% claim to be submitted ASAP.	Final tranche of 10% disbursed. Project complete in all respects.	-	Under finalization stage for LOA.	WIP. Delayed due to COVID situation

Deliberation of the sub-Committee:

Director(O&P), NERPC noted that for ADMS project work has been almost completed in all the states, however there has been significant delay in the fund requisition and disbursement process. He requested the utilities of Arunachal Pradesh and Tripura to expedite the process.

Member Secretary, NERPC strongly noted the slow progress of works i.r.o. R&U in Arunachal Pradesh. He urged SLDC, Arunachal Pradesh to issue remaining LOAs at the earliest and requisition funds from PSDF, failing which the funds would be de-allocated and also penalty would be imposed.

The Sub-Committee noted as above.

Action: All state utilities/NERPC.

B.2. OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING NOVEMBER, 2020

As per the data made available by NERLDC, the grid performance parameters for November, 2020 are given below:

NER PERFORMANCE DURING NOVEMBER, 2020

States	Energy Met (MU)		w.r.t. Oct,20 % inc (+) /dec (-)	Energy Reqr. (MU)		w.r.t. Oct,20 % inc (+) /dec (-)	% surplus (+) /shortfall (-) of energy In Nov,20
	Nov-20	Oct-20		Nov-20	Oct-20		
Ar. Pradesh	60.79	66.1	-8.03	61.06	66.42	-8.07	-0.44
Assam	733.18	988.56	-25.83	750.62	1012.66	-25.88	-2.32
Manipur	80.86	82.13	-1.55	81.25	82.48	-1.49	-0.48
Meghalaya	175.04	176.37	-0.75	175.04	176.37	-0.75	0.00
Mizoram	62.85	64.25	-2.18	63.14	64.57	-2.21	-0.46
Nagaland	66.41	75.69	-12.26	66.76	76.05	-12.22	-0.52
Tripura	180.06	245.68	-26.71	180.09	245.86	-26.75	-0.02
Region	1359.19	1698.78	-19.99	1377.96	1724.41	-20.09	-1.36

States	Demand Met (MW)		w.r.t. Oct,20 % inc (+) /dec (-)	Demand in (MW)		w.r.t. Oct,20 % inc (+) /dec (-)	% surplus (+) /shortfall (-) of demand In Nov,20
	Nov-20	Oct-20		Nov-20	Oct-20		
Ar. Pradesh	134	125	7.20	149	130	14.62	-10.07
Assam	1724	1987	-13.24	1724	1987	-13.24	0.00
Manipur	227	214	6.07	232	219	5.94	-2.16
Meghalaya	353	336	5.06	353	336	5.06	0.00
Mizoram	121	109	11.01	121	109	11.01	0.00
Nagaland	143	155	-7.74	151	160	-5.63	-5.30
Tripura	270	314	-14.01	270	314	-14.01	0.00
Region	2832	3269	-13.37	2860	3284	-12.91	-0.98

**REGIONAL GENERATION & INTER-REGIONAL
EXCHANGE IN MU**

Month---->	Nov-20	Oct-20
Total Generation in NER (Gross)	1164.59	1849.45
Total Central Sector Generation (Gross)	316.33	1493.05
Total State Sector Generation (Gross)	1480.92	356.40
Inter-Regional Energy Exchange		
(a) NER-ER	12.58	2.12
(b) ER-NER	293.49	385.03
(c)NER-NR	339.39	455.79
(d)NR-NER	11.67	0.00
© Net Import	-46.81	-72.88

AVERAGE FREQUENCY (Hz)

Month---->	Nov-20	Oct-20
	% of Time	% of Time
Below 49.9 Hz	1.28	1.78
Between 49.9 to 50.05 Hz	84.10	82.90
Above 50.05 Hz	14.62	15.32
Average	50.00	50.01
Maximum	50.17	50.15
Minimum	49.92	49.99

Deliberation of the sub-Committee:

NER grid performance for the month of November'20 was presented by NERLDC.
(Attached at **Annexure-B.2**)

The Sub-Committee noted as above.

C. ITEMS FOR DISCUSSION

C.1 Generation Planning (ongoing and planned outages)

- a. Present per day MU and projected number of days of operation.

Plants	Reservoirs level in meter	MU content	Present DC (in MU)	No of days as per current generation
Khandong + Kopili stg II			1.16	
Kopili			0	Will be "0" until further intimation.
Doyang			0.55	
Loktak			2.48	

The outage of other generating stations may be approved considering the present water levels in reservoirs and long-term outage of Kopili HEP.

Deliberation of the sub-Committee:

NERLDC highlighted that due to unavailability of Kopili HEP, constituents should plan for procurement of power for proper portfolio management.

NERLDC also highlighted that proper planning of Hydro Generation needs to be done Based on number of days of water availability.

The Sub-Committee discussed and approved the proposed shutdown by Generating Stations as given in Annexure – D.2 which is available in NERPC website.

C.2 Outage Planning Transmission elements

It was agreed in the 99th OCC meeting that shutdown will be availed only after approval is given by the OCC forum. It was also agreed that deferment/revision of outages elements other than already approved in OCC will be henceforth put/displayed in the website of NERPC (**under Operational Activities/OCC Approved shutdown**) as per CERC regulations/ CEA guidelines etc for ensuring smooth & secure grid operation.

Furnishing request of shut down of the element, which was approved by NERPC, by Indenting Agency (ISTS licensees/STUs/Generating Companies) to NERLDC:

Planned shutdown approved by NERPC shall be considered for implementation by NERLDC on D-3 basis. If an outage is to be availed on say 10th of the month, the shutdown availing agency would reconfirm to NERLDC on 7th of the month by 10:00 Hr. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC.

It was decided in the previous OCCM that shutdown would be granted from the 1st day of the following calendar month to the 30th/31st day of the same month.

The sub-Committee discussed and approved the transmission line outages proposed by Constituents for January, 2021 which is available in the website of NERPC.

C.3 Estimated Transmission Availability Certificate (TAC) for the month of Novmeber,2020:

NETC and POWERGRID have submitted the outage data for the month of November, 2020. So, the attributability of outage of the said elements may please be finalized.

The Sub-Committee noted as above.

C.4 Charging of 132kV Sihhmui S/S and related issues:

Decisions as per deliberation in previous meeting(s):

- Present condition of idle charging from Melriat end as anti-theft measure to remain in place. For charging of 132 kV Bays of Melriat – Sihhmui D/C at Sihhmui Substation, 132 kV Sihhmui Bus and 132/33 KV, 12.5 MVA Transformer at Sihhmui Substation, fresh application is to be applied to NERLDC and approval to be obtained.
- NERTS-POWERGRID to apply afresh for charging clearance/First Time Charging and Trial operation certificate for 132kV Melriat-Sihhmui including bays at both ends after obtaining clarification from NERPCTP, CEA.
- NERTS, P&ED Mizoram to inform about the conclusions of their bilateral discussions regarding tariff by Oct'20.
- After bilateral discussions if tariff related issues are still not resolved a special meeting to be held.
- Temporary bays to be handed over permanently by P&ED Mizoram to NERTS and same to be confirmed by NERPCTP.
- Meanwhile till the matter is resolved, NERTS and P&ED Mizoram to abide by the decisions of the Special Meeting held on 24.07.2020

Deliberation of the sub-Committee:

Sr.EE, SLDC, P&ED Mizoram informed the following:

- (i) In the bilateral meeting with POWERGRID on 24-11-2020, POWERGRID agreed to takeover the temporary bays as permanent.
- (ii) Remaining PCC and gravelling works in 2 bays would be completed within Dec'20 by P&ED Mizoram.
- (iii) C&R panel to be commissioned with the assistance of MRT Division.
- (iv) Regarding tariff; delayed DoCO proposal rejected by POWERGRID.
- (v) P&ED Mizoram to approach Hon'ble APTEL for redressal.

CGM(AM), NERTS stated that raising of monthly bills cannot be stopped for commissioned assets in order to have audit compliance.

After detailed deliberation it was decided that:

- (i) Charging of 132kV Sihhmui is essential and this would also enable utilization of 132kV Melriat-Sihhmui D/C. For this both NERTS and P&ED Mizoram to apply for charging clearance from NERLDC for a mutually convenient date at the earliest.
- (ii) NERTS to assist P&ED Mizoram, so that no burden is passed onto the states.

The Sub-Committee noted as above.

Action: NERTS, P&ED Mizoram.

C.5 RGMO analysis for events dated 11th June, 2020

Decisions as per discussions in previous meetings:

- OTPC- Discussions ongoing with OEM for anomaly in unit response.
- NTPC – All three units tuned in July'20.

Deliberation of the sub-Committee:

Sr. Manager, OTPC informed that OEM visit has been delayed to COVID restrictions.

The Sub-Committee noted as above.

Action: OTPC.

C.6 Charging of 33kV Khupi-Kimi line at 132kV and handing over of 132kV Balipara-Khupi:

The following were decided in the 54th PCC Meeting held on 22.01.2020 at Guwahati:

1. 132kV Khupi-Kimi line charged at 33kV presently, shall be converted to 132kV.
2. 132kV Seppa bay at Khupi to be used for 132kV Khupi-Kimi (Kameng).
3. Insulator, line inspection to be carried out by DoP, Arunachal Pradesh.

NEEPCO vide mail dated 31.08.2020 has expressed willingness to charge the line at 132kV level.

In this respect in addition to the completion of the above works at Sl.No.(1) to (3) the following are also pre-requisites:

(i) Availability of Distance Protection at both ends

(ii) Healthiness of PLCC system.

In 170th OCC meeting AE, SLDC, DoP Ar. Pradesh informed the forum that insulator, line inspection for 132kV Kimi-Khupi line shall be carried out by Oct'20. However, for handing over/taking over, he requested that the matter may be discussed with the highest level of DoP Ar. Pradesh. DGM, NEEPCO stated that NEEPCO is ready for handing over and charging of the line at 132kV level. The forum noted that the following sequence of events may be followed for charging of the line at 132kV level:

(i) Handing over/taking over of the line

(ii) Application for FTC to NERLDC.

In 171st OCCM AE, SLDC, DoP Ar. Pradesh informed that Insulator, Line Inspection has been delayed due to COVID restrictions. He assured that the same would be completed at the earliest. Regarding handing over of the line DGM, NEEPCO informed that the highest levels of Govt. of Ar. Pradesh have been approached but to no avail. He requested the intervention of the forum in this matter.

In 172nd OCCM CE, DoP Ar. Pradesh suggested that a joint inspection committee may be formed and the nominations for DoP Ar. Pradesh shall be communicated by SE (SO&PSC), DoP Ar. Pradesh. Director(Planning), NEEPCO stated that earlier it was bilaterally decided that 01st April, 2020 would be the date for handing over of Khupi-Kimi line, he requested for early resolution so that agreement for handing and taking over may be signed.

Regarding 132kV Balipara-Khupi CE, DoP Ar. Pradesh stated that DoP Ar. Pradesh is ready for taking over of the line and any date may be fixed after 15th November, 2020. Further in response to NERLDC query it was clarified that only one T-connection at Bhalukpong exists for 132kV Balipara-Khupi line.

Deliberation of the sub-Committee:

For 132kV Balipara-Khupi

EE(Trans), DoP Ar. Pradesh informed that joint inspection with NEEPCO has been done for the line and the also bays at Balipara and 132kV Khupi S/Sn. Few technical issues have been observed which are expected to be rectified by 15-12-2020. Subsequently the line would be taken over by DoP Ar. Pradesh.

For 33kV Khupi-Kimi line it was decided that a Joint Inspection comprising of members from NERLDC, NEEPCO, DoP Ar. Pradesh and NERPC would be carried out in Jan'20.

The Sub-Committee noted as above.

Action: NEEPCO, DoP Ar. Pradesh, NERPC.

C.7 Phase Rotation & Related Mismatch Issues in NER:

Subsequent to discussions in various Sub-Group and OCC meetings a Special Meeting was held on 28th October,2020 to resolve the long pending issue of Phase Rotation and resulting mismatch issues for PMU and DR.

The following were decided in the Special Meeting:

- (i) Taking 400kV Bongaigaon as reference, all bay marking to be done afresh alongwith all bay elements.
- (ii) Since ports for relay already assigned and changing them would require OEM involvement, the secondary connections to the relays and PMUs to be done afresh subsequent to bay marking
- (iii) At first the activities to be completed for 400kV Azara, 400kV Byrnihat, 400kV Silchar and 400kV Palatana by 1st week of Nov'20.
- (iv) For New Stations after charging phase sequence and bay marking to be submitted to NERLDC for verification.

In 172nd OCCM Sr.DGM(AM), NERTS informed that work would be completed progressively in Silchar by Nov'20. However, shutdown would be required since secondary connections have to be changed. Director(O&P), NERPC requested NERTS, AEGCL, MePTCL and OTPC to complete the stated activities at the earliest.

NERLDC requested NERTS to submit a working procedure in this aspect. Further it was informed that it will not be possible for NERLDC to verify after changes are implemented in new substations due to absence of PMUs in these substations. NERTS, POWERGRID agreed to provide necessary assistance in the said verification.

Deliberation of the sub-Committee:

NERTS informed that works at Silchar could not be completed due to ongoing construction activities. Due to non-availability of PMU and relay mapped data; he requested NERLDC to supply the same. After detailed deliberation, it was decided that a Special Meeting would be convened to discuss the detailed schedule of works for various utilities. The forum requested NERTS to intimate NERLDC about the necessary data for bay marking well in advance.

The Sub-Committee noted as above.

Action: NERTS, AEGCL, MePTCL, OTPC.

C.8 Data pertaining to proper transmission planning:

In the 1st meeting of the Sub-Committee on Transmission Planning under Chairmanship of Member(PS), CEA it was decided that various intra-state data are

required for proper long –term transmission planning. The necessary formats are attached at **Annexure-C.8**

Deliberation of the sub-Committee:

Director(O&P), NERPC stated that data on upcoming generation, planned transmission assets etc. till 2031-32 has been sought by CEA from all the state utilities. Sr.EE, SLDC, P&ED Mizoram stated that projects have been planned only upto 2023 and such data is only available. The forum requested all the utilities to submit the available data as per attached format before 14.12.2020.

The Sub-Committee noted as above.

Action: all state utilities.

C.9 Availing of opportunity shutdown without intimation to NERLDC:

400 kV Silchar-Byrnihat was under planned S/D availed by Meghalaya from 08:43 hrs to 16:43 hrs of 27-11-2020. However, opportunity S/D has been availed by NETC without any prior intimation to NERLDC which is a safety lapse from NETC end. All constituents are requested to strictly comply to the shutdown procedure such as taking NERLDC code for such opportunity shutdown.

Deliberation of the sub-Committee:

The forum took strong note to availing opportunity shutdown without intimation to NERLDC. In order to have proper co-ordination and to avoid accidents the forum advised all utilities availing opportunity shutdown to intimate NERLDC without fail. For this a separate code to be obtained from NERLDC by the requisitioning utility prior to availing and return of opportunity shutdown. Further NETC was requested to set up a control center with specific number available 24x7 for better shutdown co-ordination.

The Sub-Committee noted as above

Action: all utilities, NETC.

C.10 Restoration of 132kV Roing-Pasighat:

132 kV Roing-Pasighat is charged through ERS tower at Loc 213 in Arunachal Pradesh system for which provisional approval of RIO inspector was valid till 16.09.2020. A letter in this regard was issued to NERTS on 24.11.2020. NERTS is requested to update their plan on permanent restoration of the tower along with construction status of pile foundations before onset of Monsoon next year.

Deliberation of the sub-Committee:

CGM(AM), NERTS informed that NOA for permanent restoration has been issued and detailed LoA would be issued by Dec'20. The schedule timeline for completion is Apr'21.

Further he requested clarification regarding RIO clearance, NERLDC clarified that the same has to be renewed till permanent restoration is completed.

The Sub-Committee noted as above

Action: NERTS.

C.11 Non-receipt of consent from state beneficiaries for PG test of BgTPP:

In line with the deliberation against Agenda D.25 of 171st OCC Meeting, BGTPP has been requesting for required minimum schedule during PG Test on D-3 basis, but due to non-receipt on consent from all beneficiaries, NERLDC is facilitating the PG test by excluding BgTPP from SCED and RRAS. Even without SCED and RRAS, minimum schedule requested by BgTPP is not ensured as the same may reduce with less requisition by beneficiary state who have not given consent. Thus, it is requested to follow the following process:

- a. BgTPP will send their minimum schedule request on D-3 basis to the beneficiary states with a copy to NERLDC
- b. Beneficiary states may give consent strictly by D-2 (It has been observed that most of the beneficiaries provide their consent on the day of PG test causing confusion at the last minute). Non-receipt of the same shall mean dissent from the states for PG test.
- c. In event of non-receipt of consent from all beneficiary states, NERLDC shall facilitate the PG test by excluding BGTPP from SCED and RRAS in consultation with NLDC. However, technical minimum required for the PG test shall not be ensured from NERLDC. Any difference of actual vs schedule generation shall be treated as per the DSM mechanism. Further, BGTPP control room should avail permission from NERLDC control room 1 hour before start and end of PG test.

Deliberation of the sub-Committee:

NTPC stated that though request for PG test was submitted on D-3 basis, the consent from beneficiaries was difficult to obtain even by D-1 in some cases. Sr. Manager, TSECL requested that PG test be conducted in the peak hours and best avoided in off-peak hours for benefit of beneficiaries. After detailed deliberation it was decided that remaining PG tests viz. 3 numbers to be conducted in peak hours and 1 number in off-peak hours after Feb'21. NTPC was requested to submit the schedule well in advance so that beneficiaries can plan properly and give consent swiftly.

The Sub-Committee noted as above

Action: NTPC.

C.12 Providing generator schedule for Third Party Testing of Primary Governor Response:

In line with decision against Agenda D.23 of 169th OCC Meeting, following process in respect of providing the required generation schedule during the testing duration:

- a. The generating station in consultation with the testing agency (M/s Solvina or M/s Seimens) shall provide confirmation of the said testing schedule to NERLDC at-least 7 days ahead (on D-7 basis, D being the date of start of testing) over email.
- b. The generating station in consultation with the testing agency shall provide information regarding exact dates and time duration of testing on each day along with block-wise generation schedule required during the period of testing, at-least 3 days ahead (on D-3 basis, D being the date of start of testing) over email to NERLDC.

Deliberation of the sub-Committee:

NERLDC informed that testing has been successfully completed for Khandong HEP. DGM, NEEPCO informed that upon discussions with M/s SOLVINA the schedule agreed for RHEP and Pare HEP are as follows:

RHEP – 26th Dec'20 to 30th Dec'20

Pare HEP – 21st Dec'20 to 24th Dec'20

Further he informed the following:

- (i) Due to depleted water levels in Turial HEP the testing may be postponed to the next hydro season.
- (ii) Kameng HEP may be postponed till Unit-3 and 4 are commissioned.

Sr. Manager, OTPC informed that shutdown of Palatana has been planned from 23rd Mar'21 to 30th Mar'20. Members opined that PFR testing for Monarchak may be conducted during this period.

DGM, NEEPCO stated that only FGMO is present for Monarchak GBPP and RGMO requires additional financial involvement. NERLDC stated that even though PFR performance is to be tested for both modes, only FGMO may be done in case of Monarchak. The forum decided that PFR testing to be done only for FGMO in case of Monarchak and RGMO implementation to be discussed bilaterally by NEEPCO and TSECL.

Manager(E/M), NHPC informed the testing dates(as per mutual discussion with M/s SOLVINA) for Loktak HEP viz. 22nd Feb'21 to 27th Feb'21.

NTPC informed that APM for one unit is planned from Mar'21 so testing may be planned in last week of Apr'21 or May'21.

The Sub-Committee noted as above

Action: NEEPCO, NHPC, NTPC, OTPC.

C.13 Second Power System Operation Conclave:

The 2nd Power System Operation Conclave shall be organised by NERLDC tentatively on 11th and 12th January 2021. The programme shall be organised online. It is a platform for knowledge sharing on all aspects of system operation in Indian Power System along with lectures from experts from all over India. All constituents of NER are requested to nominate personnel from their esteemed organizations in large numbers so that all can get benefited from the event.

The Sub-Committee noted as above

C.14 Irregular receipt of data for open cycle verification for gas based generating stations:

In 155th OCC Meeting (Agenda D.27), it was agreed that Open Cycle data shall be submitted on Monthly basis for verification. Although NERLDC has been verifying the data for AGBPP after receiving the same on quarterly basis but open cycle data has been received for AGTCCPP on 24/11/2020 from NERPC for FY: 2016-17, FY:2017-18 & FY:2018-19. Verification of open cycle data by NERLDC for 3 financial years together from 2016 onwards will not be feasible. Thus, gas based ISGS are requested to furnish the open cycle data for verification to NERPC strictly on monthly basis for verification of the same by NERLDC.

Deliberation of the sub-Committee:

CGM, NERLDC informed that recently NEEPCO has submitted open cycle data for AGTCCPP for the period Apr'16 to Mar'18 on 24th Nov'20 and for the period Apr'18 to Mar'20 on 10th Dec'20. He stated that had code been taken prior to unit(s) shutdown then verification would be easy. Presently quarterly/monthly verification can be done at a stretch, 4years data cannot be verified.

After detailed deliberation the forum decided the following:

- (i) Henceforth when gas unit goes under shutdown, code to be taken from NERLDC by the concerned generator. This would enable proper record keeping and accurate open-cycle verification.
- (ii) Open cycle data to submitted monthly by generators.
- (iii) NERPC to certify open-cycle for AGTCCPP for the period Apr'16 to Mar'20 based on data available with NERPC.

The Sub-Committee noted as above.

Action: NEEPCO, NERLDC, NERPC.

C.15 Installation of AWS by IMD for better weather forecasting in power sector:

As per the last status, IMD had visited Assam and Tripura and selected the sites where AWS (Automatic Weather Station) could be installed and a report regarding site selection was submitted to NERLDC. Moreover, it was decided during the 164th OCCM that IMD would visit the ISGS stations on urgent basis regarding site selection.

As informed by IMD, they would brief the OCC forum regarding the latest status and progress in this matter in the upcoming meeting. The updated site status shared by IMD is attached as **Annexure-C.15**. The total nos. of sites selected and rejected till now is as below:

State	No. of Site found suitable	No. of Site not found suitable
Tripura	6	10
Meghalaya	4	1
Assam	9	-
Manipur	-	2

Deliberation of the sub-Committee:

Sr. Scientist(E), RMC, Guwahati via a presentation highlighted the sites selected suitable for installation of AWS.

EE, SLDC, Meghalaya suggested that Mustem may be considered instead of Lumshnong. The forum requested DoP Nagaland and P&ED Mizoram to submit a list of stations immediately to NERLDC. Members unanimously requested IMD through NERLDC to consider installing AWS in all ISGS/ISTS stations.

The Sub-Committee noted as above.

Action: P&ED Mizoram, DoP Nagaland, NERLDC.

C.16 Preparedness for secured grid operation during winter season:

Winter season is experienced by NER states during December-March. For safe and secure operation of Grid during Winter Season, following actions are suggested by NERLDC:

- Ensure appropriate action for proper load – generation balance of respective systems by SLDCs

- MVAR absorption according to machine capability curve as per system requirement & operation synchronous condenser mode as per machine design ensuring frequency by Generators
- Appropriate action to keep Line loading and voltage within prescribed limit by SLDCs
- Proper cleaning of insulators by Transmission utilities & cleaning/replacement of Inlet air filters by Gas Plants wherever required to avoid tripping due to fog
- Availability of Bus/Line/Tertiary reactors needs to be ensured by utilities & shutdown of reactors in this period may be deferred.

The Sub-Committee noted as above.

Action: all utilities.

C.17 Procedure for Rescheduling request and approval:

1. In present practice, wherever an approved planned shutdown is deferred by NERLDC on account of grid constraints, the rescheduled / alternate date of the already approved OCC shutdown is proposed by the transmission licensee as per convenience and NERLDC allots dates taking into grid scenario in consideration.
2. Similarly, it is proposed that, in case of Transmission licensee confirms that a particular approved planned S/D cannot be availed due to existing unfavorable conditions / constraints at site on the scheduled date, the transmission licensee should be allowed to propose rescheduled date as per above mentioned existing procedure in (Sl no. 1.

Deliberation of the sub-Committee:

After detailed deliberation the forum decided to continue with the present procedure.

The Sub-Committee noted as above.

D. ITEMS FOR STATUS REVIEW

D.1 Restoration of Assets damaged at Kopili HEP due to failure of Penstock:

As per decisions in previous meeting(s):

- (i) Detailed ownership and scope of work finalized in the 168th OCC meeting
- (ii) Immediate restoration of one 220kV line, one 132kV line and 160MVA ICT at Kopili S/S via AIS by NERTS as temporary measure – deadline: November'20.
- (iii) Kiosk arrangement/ hardware which is being presently used and shall also be a part of permanent restoration shall be jointly decided by NERTS/NEEPCO.

(iv) Prior to permanent restoration the BoQ shall be shared by NERTS with the forum.

In 171st OCCM Director(O&P), NERPC informed that the matter was discussed in length in the 2nd NERPC-TP meeting wherein it was decided that the issue of temporary as well as permanent arrangement are pertained to restoration of existing element and not for planning of new element and hence not cover under TOR of NERPC-TP.

CGM, NERLDC stated that as per System Requirement the temporary restoration of one 220kV line, one ICT and one 132kV line is required for Meghalaya particularly for the lean hydro season.

Sr.GM, Misa, NERTS stated that temporary restoration at this stage would be difficult as there are many activities like earthing, construction of cable trench, construction of control room etc. those are of permanent in nature and will have its own lead-time like doing permanent restoration since it involves new procurement and construction. Further, during 2nd NERPCTP Meeting members already opined non-requirement of Temporary restoration. Accordingly, Sr.GM, Misa, NERTS stated that the agenda for permanent restoration would be placed in 3rd NERPCTP meeting for necessary inclusion of additional scope in NERSS – III project.

EE, SLDC, Meghalaya stated that during winter i.e. lean hydro season Meghalaya would face shortfall if the link is not restored by 2nd week of Nov'20.

After detailed deliberation the following were decided:

- a.** Joint Study by Meghalaya SLDC and NERLDC by 23rd Oct'20 to assess the impact of the unavailability of the Misa-Kopili-Khandong link on Meghalaya drawal during the lean hydro season.
- b.** For the proposal for permanent restoration, agenda will be in 3rd NERPCTP Meeting for necessary inclusion of additional scope in NERSS – III project.

In 172nd OCC meeting Sr.GM, Group-in-Charge, Misa, NERTS stated that no concrete decision could be taken in the 2nd NERPCTP meeting, further he clarified that in case of restoration work done by present bay owner NEEPCO or deposit work by NERTS the NERPCTP approval would not be required. He suggested that permanent restoration to be done and if done under PoC then a Special Meeting of NERPCTP may be convened at the earliest.

NERLDC informed the Joint study results as follows:

- In absence of Misa-Kopili-Khandong link, 2x25MW Khandong generation is required otherwise load shedding is seen in Capital Area based upon availability of Leshka generation.

- Overloading of 132kV Badarpur-Panchgram and 132kV Umiam Stg-III to Umiam Stg-I lines observed.
- 132kV Srikona-Panchgram to be brought into service as early as possible, so that constraint won't be there.
- 132kV Umtru-Kahelipara D/C to be closed.
- Desired generation 40MW from Leshka and 42 MW from Khandong in peak period. NEEPCO agreed to provide at least 36MW in peak hours during lean hydro season from Khandong.

After detailed deliberation the forum approved for permanent restoration and requested NERPC to arrange for CEA meeting.

Deliberation of the sub-Committee:

DGM, NEEPCO informed that by June'2022 first unit of Kopili HEP would start generating. He requested that commissioning of the transmission links be done prior to the timeline. After detailed deliberation it was decided that for permanent restoration NERLDC, NEEPCO, NERTS and NERPC would discuss and send common agenda for deliberation of NERPCTP.

The Sub-Committee noted as above.

Action: NERPC, NERTS.

D.2 Status update of important grid elements under prolonged outage impacting system operation:

Sl. No	Element	Owner	Status as informed in the 172 nd OCCM	Status as informed in the 173 rd OCCM
1	132kV Dimapur - Imphal	NERTS	By Nov'20	Charged on 10-12-20 at 16:00hrs
2	63MVAR L/R for 400kV Palatana-SilcharCkt-I	OTPC	1 st week of Dec'20	By Jan'21
3	132kV Jiribam – Rengpang	MSPCL	Dec'20	Mar'21
4	220KV-Agia-BTPS-I	AEGCL	Completed. EI clearance awaited.	In service
5	25 MVAR tertiary reactor 1,2 & 3 at Balipara	NERTS	Ready for taking into service.	Reactors 2&4 in service**
6	132kV Rangia-Rowta	AEGCL	Pile foundation completed. Conductor re-stringing to start by Nov'20. Completion by Feb'21	by Feb'21
7	132kV Mariani – Mokokchung(out since	AEGCL	After favourable study results line	Study results favourable. Insulator

	April'2008)		would be charged.	replacement to be taken up.
8	FSC of 400kV Balipara – Bongaigaon-4(out since 02 nd Sep'20)	NERTS	Procurement involved. Tentatively by Mar'21	Procurement involved. Tentatively by Mar'21
9	Kameng Unit #II (out since 20.11.2020)	NEEPCO	-	Charged on 10 th Dec'20

**NERTS informed that when all the tertiary reactors are kept in service in Balipara, Bongaigaon and Misa a huge drawal of current is observed and hotspot in ICT secondary side. Then immediately shutdown has to be taken to attend the hotspot. He suggested that NERTS be allowed to keep only two tertiary reactors in service (per station) at a time. The forum concurred.

The Sub-Committee noted as above.

Action: all utilities as above.

D.3 Status of commissioning for Upcoming projects:

Sl. No	Name of the element	Utility	Status as informed in 172 nd OCC meeting	Status as informed in 173 rd OCC meeting
1	LILO of 132kV Surjamaningar-Budhjungnagar-I at Surjamaningar(ISTS)	TSECL	WIP by Nov'20	Work completed. Charging by Dec'20**
2	LILO of 132kV P.K.Bari-Ambassa at P.K.Bari(ISTS)	TSECL	WIP by Dec'20	Work completed. Charging by Dec'20**
3	400kV Palatana-Surjamaningar D/C	NERTS	Dec'20	Jan'21
4	400kV Silchar – P.K.Bari D/C	NERTS	Dec'20	Jan'21
5	132kV Monarchak-Surjamaningar	TSECL	By Mar'21. Exact reasons for delay and status to be sent to CEA.	By Mar'21. Exact reasons for delay and status to be sent to CEA.
6	PLCC for 132kV Loktak-Ningthoukong and 132kV Loktak-Rengpang	MSPCL	Included in R&U. By Mar'21	Included in R&U. By Mar'21
7	Construction of 2 nd bay at Balipara for 220kV Balipara-Sonabil-2	AEGCL	NIT by Nov'20	OBD 30 th Dec'20 Completion by Aug'21

8	Bay at 132kV Agia S/Sn for 132kV Agia-Nangalbibra-II	AEGCL	1 st week of Dec'20	Bay completed. Damaged insulator in Assam side to be replaced. Subsequently line may be charged after clearance from MePTCL for Meghalaya section of the line.
9	Upgradation of 132kV Lumshnong - Panchgram line	MePTCL	To be updated	PSDF approval awaited.
10	Diversion of 132kV Bawktlang-Sihhmui	NERTS	By Jan'21	By Jan'21
11	PLCC for 132kV Karong-Kohima	MSPCL	NERPC to write to MD, MSPCL	Letter sent to MD, MSPCL.
12	400/220kV 500MVA ICT at Mariani	NERTS	-	Dec'20

** NERLDC presented a study wherein the following were highlighted:

- When 132kV Palatana –SMNagar is operated at 400kV then Bangladesh load cannot be catered with existing/to-be-charged 132kV SMNagar-SMNagar(ISTS) link.
- The 132kV SMNagar-SMNagar(ISTS)-Budhjangnagar link to be upgraded to HTLS for the entirety of the line in order to cater to Bangladesh load.
- Till the upgradation is done Bangladesh load shall be curtailed to 90MW or Tripura demand to 170MW.
- The 132kV PKBari-PKBari(ISTS)-Ambassa link also has to be upgraded to HTLS.

DGM, SLDC, TSECL informed that the estimate for HTLS upgradation of the said lines have been submitted for Government approval.

The Sub-Committee noted as above.

Action: all utilities as above.

D.4 Preparation of List of Important Grid Elements:

In the Special Meeting (for improvement of Data Availability) held on 18th August,2020 it was decided that List of Important Grid Elements has to be prepared by NERLDC (for ISTS and important intra-state elements) and by SLDCs (for intra-state elements). Status of preparation of list of Important Grid Elements as per 173rd OCCM:

Arunachal Pradesh	Submitted
Assam	Submitted
Tripura	By 18-12-20

The Sub-Committee noted as above.

Action: SLDC Tripura.

D.5 Immediate restoration of 220kV Bus-Coupler Bay at Samaguri(AEGCL) & keeping both buses in service at 220kV Sub-stations in Assam power system:

In 171st OCCM AGM, SLDC, AEGCL informed that the matter has been intimated to the headquarters for early implementation. The forum requested Assam to furnish the substation wise issues and reasons for keeping the Bus Coupler in open condition for all 220 kV Substation where Bus Coupler has been kept open. NERLDC requested that the mapping of Bus Coupler bay to SCADA has to be completed for all the stations.

In 172nd OCCM DGM, AEGCL informed that necessary studies would be undertaken and some breakers would be closed by Nov'20.

Deliberation of the sub-Committee:

GM, AEGCL informed that BC has been closed at Mirza, while at Agia it is in commissioning stage and will be completed by Mar'21. He opined that BC bay commissioning and Bus Bar protection should be done simultaneously and the same will be done in all AEGCL stations by Mar'21. However, BC bay CT upgradation also has to be done correspondingly. Further he requested NERPC to convene a separate meeting to discuss the closing of BC, CBs without hampering protection schemes.

Director(O&P), NERPC suggested that the same may be discussed in the next Sub-group meeting.

The Sub-Committee noted as above.

Action: AEGCL, NERPC.

D.6 Utilization of Transfer Bus and Bus Coupler Breaker during rectification of Main Circuit Breaker for 132 kV Dimapur-Doyang line 2:

In 171st OCCM DGM, NEEPCO informed that the wiring of Selector Switch to the BC is yet to be done and also Trip Transfer scheme has to be completed. Further LBB has to be commissioned for all the feeders. For the said activities' OEM is involved and due to

COVID situation the work is delayed although every effort is being made for an early completion.

NERLDC mentioned that the unwanted outage of the line should be avoided and Bus Coupler CB must be utilized as and when the issues are resolved.

In 172nd DGM, NEEPCO informed that OEM has been consulted and tentative completion is by Jan'21.

Deliberation of the sub-Committee:

DGM, NEEPCO informed that the status would be updated in the next OCCM.

The Sub-Committee noted as above.

Action: NEEPCO

D.7 Testing of Primary Governor response of NER Generating units as per IEGC C1.5.2(g):

Schedule as agreed in the 172nd OCC meeting

Region	Station	No. of generators	Schedule	Duration (days)
NER	NEEPCO Ranganadi	3	28th Dec'20 to 4th Jan'21	6
NER	NEEPCO Turial	2	To be decided later	4
NER	NEEPCO-Monarchak	2	During AMP of at least one module of Palatana	4
NER	NEEPCO-Kopili	1	Under long shutdown	2
NER	NEEPCO-Khandong	2	1st Dec'20 to 4 th Dec'20	4
NER	NEEPCO- Pare	2	9th Dec'20 to 12 th Dec'20	4
NER	OTPCL- Palatana	2	In May'21	4
NER	NTPC Bangaigaon TPP	3	In Mar'21	6
NER	NHPC Loktak	3	23rd Dec'20 to 28 th Dec'20	6

Deliberation of the sub-Committee:

Pls refer to discussions in item No. **C.12**.

The Sub-Committee noted as above.

Action: NEEPCO, NHPC, NTPC, OTPC.

D.8 Removal of LILO of 132kV NDTL at Pare HEP and Upgradation of LILO portion:

In the meeting held on 03.11.2020 by CEA, while updating the status of 132kV Pare HEP- N. Lakhimpur HTLS D/C, the forum felt that the status of removal of LILO of 132kV NDTL at Pare HEP and upgradation of the LILO portion to HTLS by NEEPCO is also to be updated.

Deliberation of the sub-Committee:

Director(O&P), NERPC informed that NEEPCO has intimated to CEA/NERPC vide letter dated. 09.12.2020 that no further additional capitalization is permissible under Pare HEP project. So, the removal of LILO works at Pare HEP and upgradation of LILO portion/bay/bus to HTLS may be allotted to some other entity. The forum noted and referred the matter for NERPCTP discussion.

The Sub-Committee noted as above.

Action: NERPC.

D.9 SEMs to be Procured

In 171st OCCM NERTS informed that Procurement of 100 SEMs and 20 DCDs have been completed and internal process is ongoing for procurement of additional 50 SEMs.

The Sub-Committee noted as above.

Action: NERTS.

D.10 SEM time drift:

The 172nd OCCM forum requested NERTS to replace the time-drift SEMs at the earliest.

The Sub-Committee noted as above.

Action: NERTS.

D.11 Integration of SEMs with laptop/PC for data downloading:

Decisions as per deliberation in the previous OCC forum:

- i. Implementation of RS-485 scheme for data downloading in one station preferably a generating station
- ii. If trial operation is successful then the scheme is to be extended to all stations where SEM quantity is greater than 10.
- iii. Trial/Pilot to be set up at OTPC Palatana.
- iv. OEM support to be sought by NERTS for early implementation of the scheme.
- v. NERTS to expedite the implementation of Pilot.

Deliberation of the sub-Committee:

NERTS informed that L&T has denied to provide man-power support for said integration works. NERTS submitted to the forum to request L&T on its behalf, to provide man-power support.

The Sub-Committee noted as above.

Action: NERTS, NERLDC, NERPC.

D.12 Second Meter List for replacement:

In 172nd OCCM NERTS informed that installation of SEM is under progress, most of the SEMs has been re-distributed to the nearby Powergrid locations for installation in the listed substation and is expected to be completed before next OCCM

Deliberation of the sub-Committee:

NERTS informed that out of 100 procured SEMs, only 10 SEMs are left. By the end of Jan'21, they will complete the replacement process. NERPC advised NERTS to provide list for already replaced SEMs to understand current scenario.

The Sub-Committee noted as above.

Action: NERTS.

D.13 New Meter and CMRI requirement:

In 170th OCCM NERLDC submitted a list of requirements of SEM and CMRI for new locations. It was agreed that meters will be installed in new locations where check/backup meters are not available, and DCD will be provided from the recent procurement. Also, NERTS will give the details of meter requirement for their substation from where they draw power for aux. consumption and will install the meters (as decided in 39th CCM).

In 172nd OCCM regarding installation of meter for drawing of power for aux. consumption, NERTS expressed their inability to install the meter as 5A CTs are not available and the SEMs are having only 1A CT secondary connection.

Deliberation of the sub-Committee:

NERTS informed that they are facing problems in amending existing LOA as name of L&T has been renamed to Schneider. NERTS assured to complete the procurement process by Mar'21.

The Sub-Committee noted as above.

Action: NERTS.

D.14 SEM data collecting Laptop related issues:

List of DCD distribution location has been provided in 172nd OCCM by NERLDC

The Sub-Committee noted as above.

Action: NERTS.

D.15 Procurement of SEM & DCD/Laptop for future requirements:

In 172nd OCCM it was decided that 10 more nos. of CMRIs shall be procured along with the already estimated 125 nos. SEMs and 15 nos. CMRIs. Sr.DGM (AM), NERTS informed that under the existing contract, quantity variation clause shall be exercised.

Deliberation of the sub-Committee:

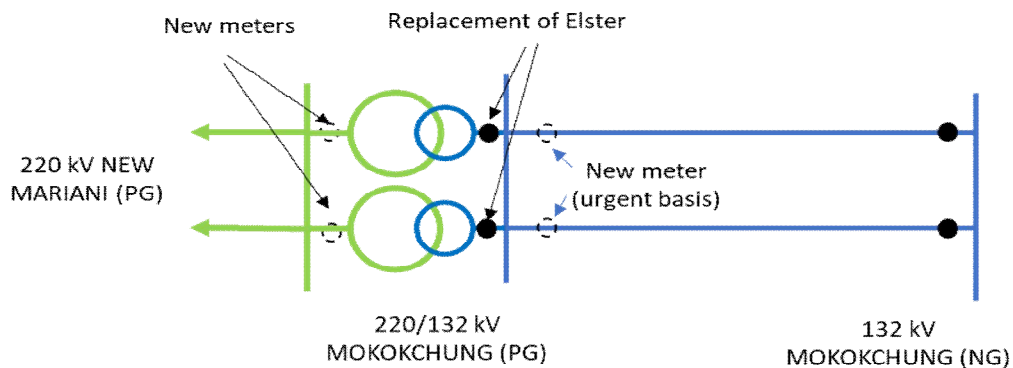
NERTS agreed to revert back with the exact details in the next meeting.

The Sub-Committee noted as above.

Action: NERTS.

D.16 Replacement/Installation of new SEM at Mokokchung sub-station:

In 172nd OCCM it was informed that replacement/ New installation of SEM at Mokokchung-PG Substation shall be completed by Nov'20:



Deliberation of the sub-Committee:

NERTS informed that the installation has been completed.

The Sub-Committee noted as above.

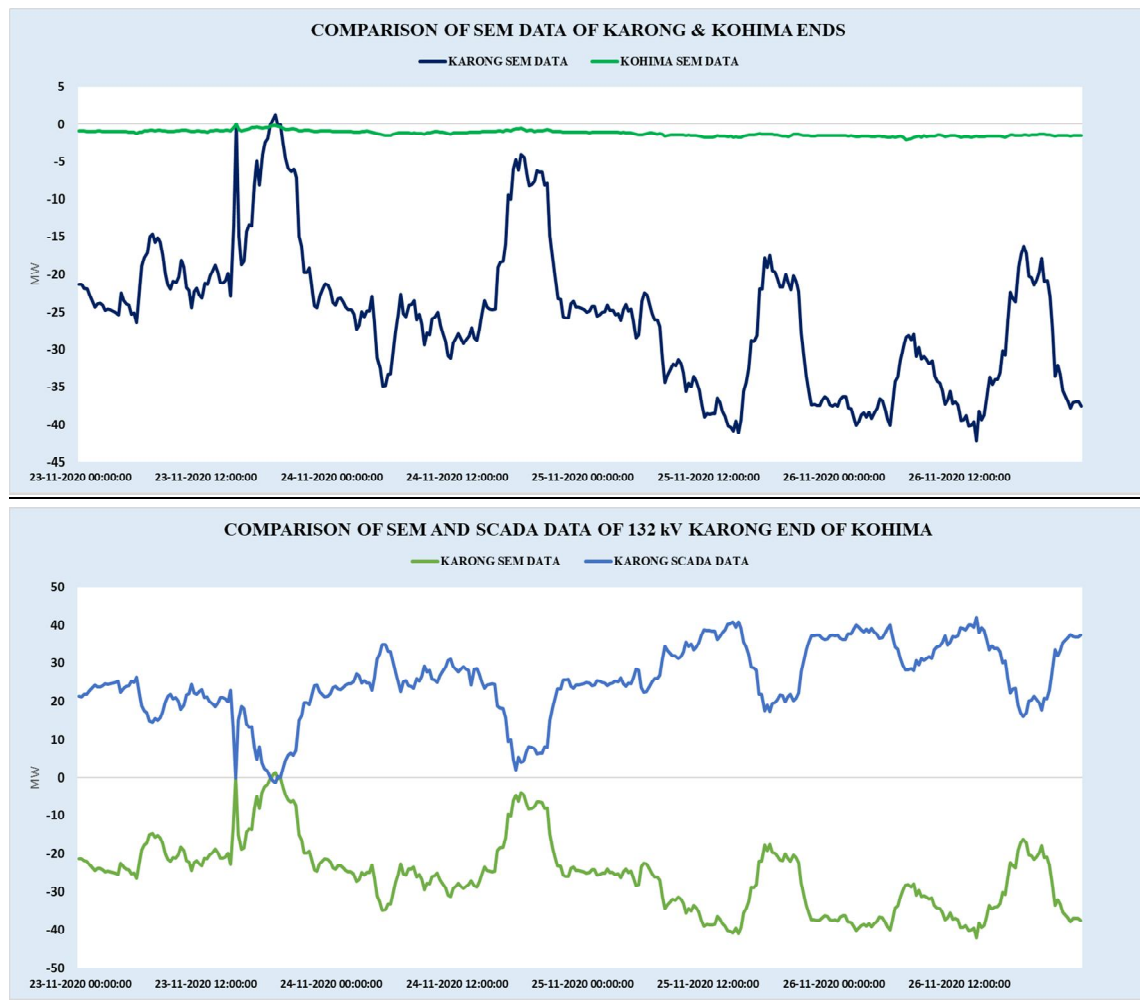
Action: NERTS.

D.17 Sign Reversal Problem:

For sign reversal problem is persisting in the following lines the following were informed in the 171st OCCM:

Karong end (NP-9667-A) of 132 kV Karong - Kohima line. Also, Kohima end of 132 kV Karong - Kohima line reads appx. 20-25% less than that of Karong end - SDO, SLDC, DoP Nagaland informed that the SEM at Kohima has been replaced and the discrepancy is yet to be observed again after replacement. Further he also informed that the CT replacement process is underway.

Graph regarding Agenda D.18 of 172nd OCCM



Erroneous data at Kohima end after installation of new SEM

Deliberation of the sub-Committee:

SDO, SLDC, DoP Nagaland informed the following:

- SCADA & SEM from same core of CT at Kohima side
- CT replacement under proposal by Feb'21.

After detailed deliberation the forum decided that since SCADA reading is matching at both ends, the SCADA connection at Kohima has to be taken in series and extended to SEM. NERTS was requested to assist DoP Nagaland in this regard.

The Sub-Committee noted as above.

Action: NERTS, DoP Nagaland

ADDITIONAL AGENDA FROM OTPC:

D.18 Shutdown of OTPC units:

A. OTPC Block-2 Shutdown: From 1st March 21 to 30th March 21

For GTG-2 Rotor Inspection and replacement, HRSG-2 License renewal and maintenance work in Steam Turbine-2

Block-1 will be in service at Full Load till 22nd March 21.

B. OTPC Block-1 Shutdown: From 23rd March 21 to 27th April 21

For GT-1 Major inspection (MI), HRSG-1 License renewal and maintenance work in Steam Turbine-1.

Block -2 will be started on 31st March 21 and will be on full load w.e.f. 1st April 21.

C. Common SD for OTPC Block-1 and Block-2: From 23rd March 21 to 30th March 21

To facilitate ONGC Pigging activity and OTPC Block -1 & 2 control system upgradation.

No generation will be from OTPC Palatana from 23rd March to 30th March 21.

Deliberation of the sub-Committee:

The forum noted the above shutdowns and deferred for discussion in the next OCC meeting.

The Sub-Committee noted as above.

Action: OTPC, NERPC.

D.19 Re-consideration of ZCV clause:

Reconsideration of ZCV clause of DSM 5th Amendment (Clause 7 (1) and 7 (2))

The ZCV for 6 time block is applicable w.e.f 1st Dec 2020 (11/SM/ 2020), however as per IEGC with Real time market regulation the revision is applicable from 7th and 8th Time block. In case of any unit tripping, 1st sign change violation will happen.

“In 171 OCC Director (Comml.), NERPC clarified that the Cl.4.5(d) refer to the start-up activities prior to CoD of the unit and Cl.4.5(f) refer to the complete outage of generating station and not any particular unit or module. So claim is not applicable for OTPC.”

Sign Change violation time block should be matched with Revision clause of IEGC.

Deliberation of the sub-Committee:

After detailed deliberation the forum requested OTPC to approach CERC for relief/relaxations.

The Sub-Committee noted as above.

Action: OTPC.

ADDITIONAL AGENDA FROM DoP Nagaland:

D.20 Transition from 101 to 104 for MW Vacation assets:

S.E., DoP Nagaland stated that the links which have been switched from MW Vacation to fiber still is on 101. He requested for the transition to 104 to be completed at the earliest. After detailed deliberation the forum referred the matter for discussion in the next NETeST meeting of NERPC.

The Sub-Committee noted as above.

Action: DoP Nagaland, NERPC.

Date & Venue of next OCC meeting:

It is proposed to hold the 174th OCC meeting of NERPC on second week of January, 2021. However, exact date and venue will be intimated in due course.

Annexure-I**List of Participants in the 173rd OCC Meeting held on 11.12.2020**

SN	Name & Designation	Organization	Contact No.
1	Sh. Sange Phuntso, EE (E), SLDC	Ar. Pradesh (MS Team)	
2	Sh. P. Buchi, AE, SLDC	Ar. Pradesh (MS Team)	-
3	Sh. G. Yinyo, JE, SLDC	Ar. Pradesh (MS Team)	-
4	Sh. Hibu Bama, EE(E), Transmission Division -II	Ar. Pradesh (MS Team)	
5	Sh. Bimal Borah, DGM (O)(SLDC)	Assam (VC)	-
6	Sh. R. Goswami, AGM (SLDC)	Assam (VC)	-
7	Sh. Mriganka Bhuyan, AGM (SLDC), AEGCL	Assam (MS Team)	-
8	Smti. Barsha Kashyap, DM, SLDC	Assam (MS Team)	-
9	Sh. N. Ahmed, GM(TRC), APDCL	Assam (MS Team)	-
10	Sh. Gunajit Bhuyan, DGM, AEGCL	Assam (VC)	
11	Sh. Hidam Roshikanta, DM	Manipur (VC)	-
12	Sh. N. Saranjit, Mgr. (I/c)	Manipur (VC)	-
13	Smti. Hanna S.Rangnamei, Mgr. (E) (SLDC)	Manipur (VC)	-
14	Sh. Ramy Raja, DM	Manipur (VC)	-
15	Smti. Laishram Ritu, DGM, SLDC	Manipur (VC)	
16	Smti. Steffi Okram, Mgr. (E) (SLDC)	Manipur (MS Team)	-
17	Sh. Rokobeito Iralu, SDO	Nagaland (VC)	-
18	Sh. Asangba Tikhir, EE SLDC	Nagaland (VC)	-
19	Sh. Tiakaba, JE, SLDC	Nagaland (VC)	-
20	Sh. T. Gidon, EE (SLDC)	Meghalaya (MS Team)	-
21	Sh. D.J.Lyngdoh, EE, SM	Meghalaya (VC)	-
22	Sh. Benjamin L. Tlumtea, Sr. EE (SLDC)	Mizoram (VC)	-
23	Smti. Kristine VL Sailo, AE, SLDC	Mizoram (VC)	-
24	Sh. V. Lalhmingliana, JE, SLDC	Mizoram (VC)	-
25	Sh. Zothansanga, EE(P)	Mizoram (VC)	-
26	Sh. Anil Debbarma, DGM (SLDC)	Tripura (VC)	9612589250
27	Sh. Mrinal Paul, Sr. Mgr.	Tripura (MS Team)	-
28	Sh Debabrata Paul, Sr. Mgr.	Tripura (MS Team)	-
29	Sh. R.Sutradhar, CGM	NERLDC (VC)	-

30	Sh. S.C. De, Sr.GM	NERLDC (VC)	9436335369
31	Sh. Mintu Mandal, Ch. Mgr. (SO-I)	NERLDC (VC)	-
32	Sh. Kritika Debnath, Engineer	NERLDC (VC)	9436930830
33	Sh Abhilash Das, Ch. Mgr. (SO-I)	NERLDC (VC)	9436930830
34	Sh. U. Kataki, CGM	PGCIL (MS Team)	9435505418
35	Sh Devaprasad Paul, Chief Mgr. (AM)	PGCIL	
36	Sh. Joypal Roy, DGM	NEEPCO (MS Team)	8837200069
37	Sh. Tarh Naga, RHEP	NEEPCO	-
38	Sh. Narendra Kumar Gupta, Sr. Manager (O)	OTPC (MS Team))	9774233426
39	Sh. Kangkan Paul, DM (EEMG)	NTPC (MS Team)	-
40	Sh. Susovan Das, AGM (EEMG)	NTPC (MS Team)	-
41	Sh. Tapas Bachar	NTPC (MS Team)	-
42	Sh. Asit Kumar Mandal	NTPC (MS Team)	-
43	Sh. Ratan Singh Basnet, Sr. Mgr.	NETC (MS Team)	-
44	Sh. Satish Kumar, AD, NPC	CEA (MS Team)	-
45	Sh. A.K. Thakur, Member secretary	NERPC	-
46	Sh. B. Lyngkholi, Director (O&P)	NERPC	9436163419
47	Sh. S. Mukherjee, EE	NERPC	8794277306
48	Sh. Rajib Das, AE	NERPC	-
49	Sh. S. Chaturvedi, AE	NERPC	-

Annexure-B.2

उ.पू.क्षे ग्रीड प्रदर्शन

NER GRID PERFORMANCE

For the month November 2020

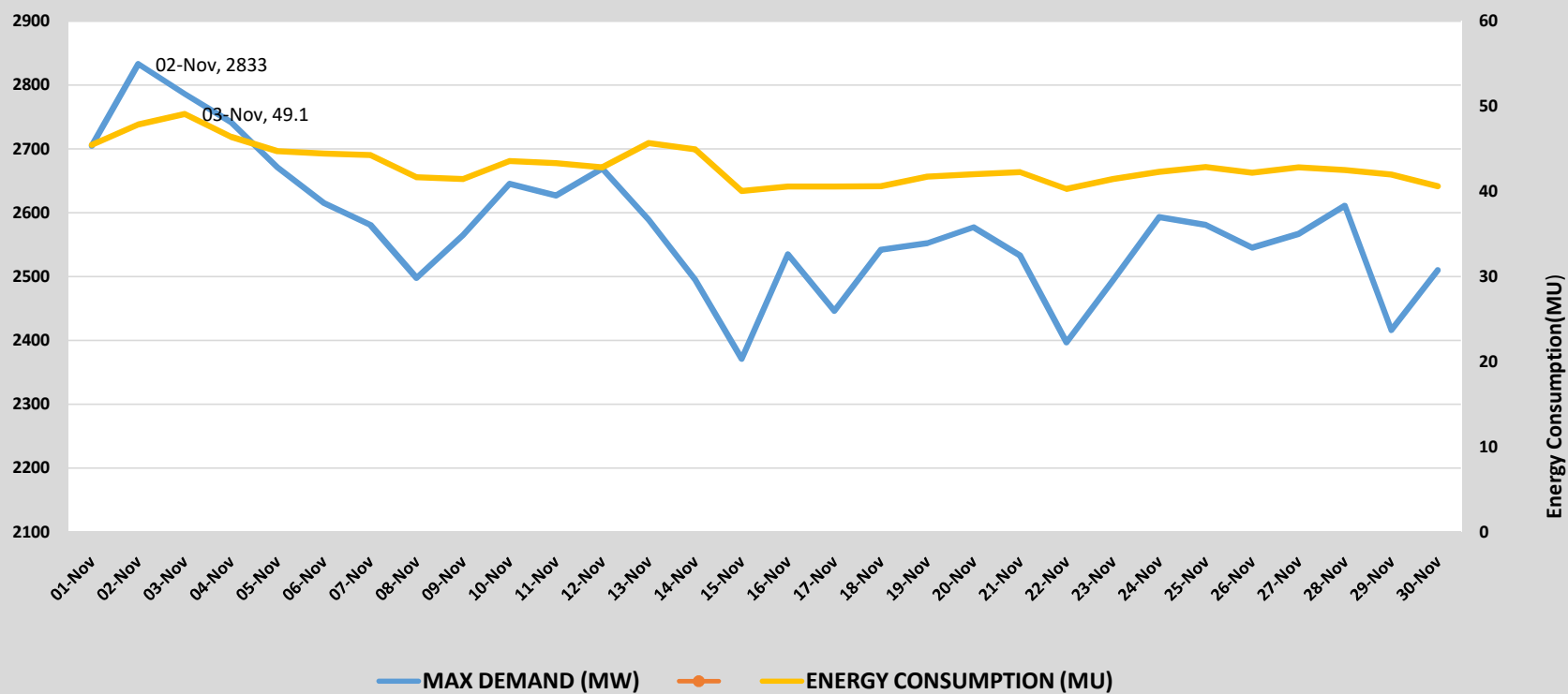


North Eastern Regional Load Despatch Centre
POSOCO, Shillong

Maximum MW and MU in NER: Nov 2020

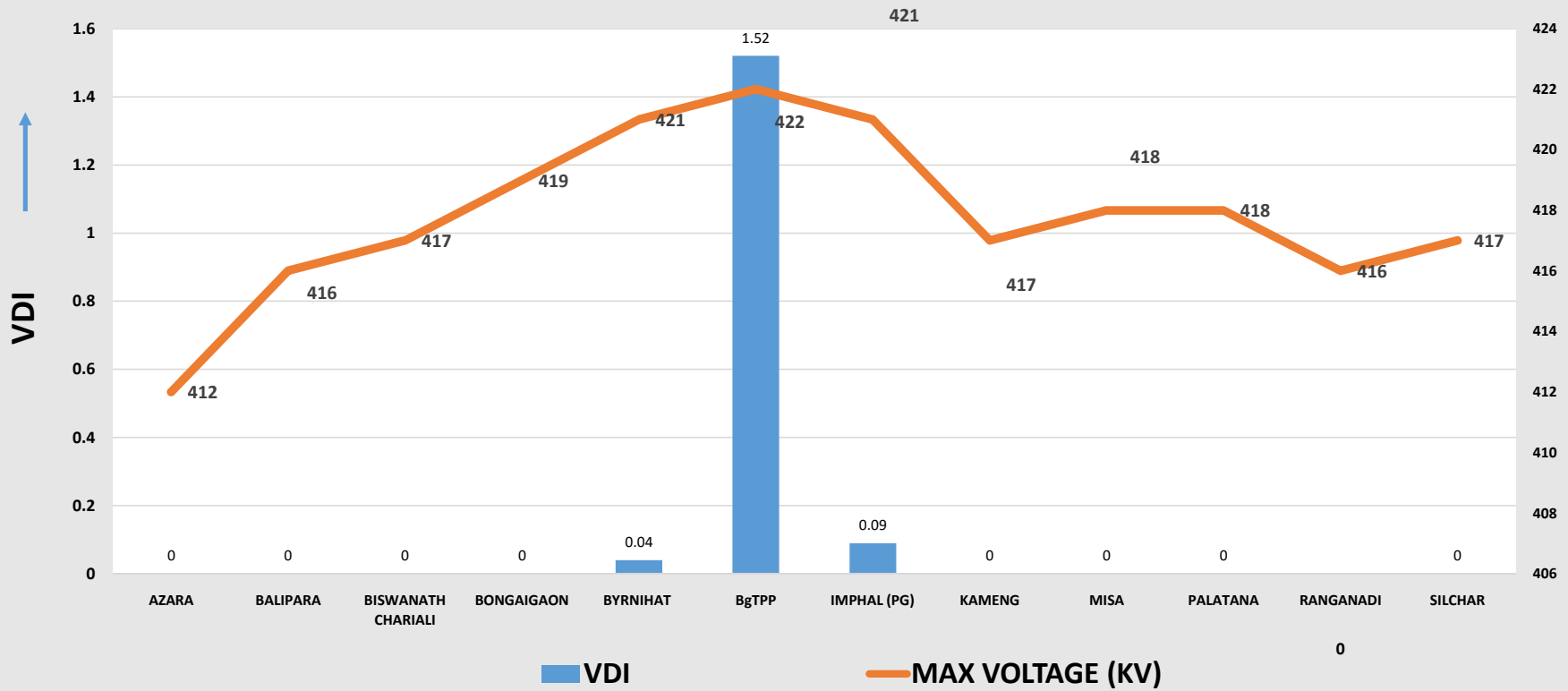


Maximum Demand (MW) and Energy Consumption (MU)



VDI (400 KV) FOR NOV 2020

No. of 400 kV lines kept open for over voltage - 1





RMSE of Load forecast for Nov'20

RMSE of the forecasted Demand by SLDCs Vs Actual Demand met as per SEM by SLDCs (as per IEGC c1.5.3):

$$RMSE = \sqrt{\frac{\sum_{i=1}^N (\text{Predicted}_i - \text{Actual}_i)^2}{N}}$$

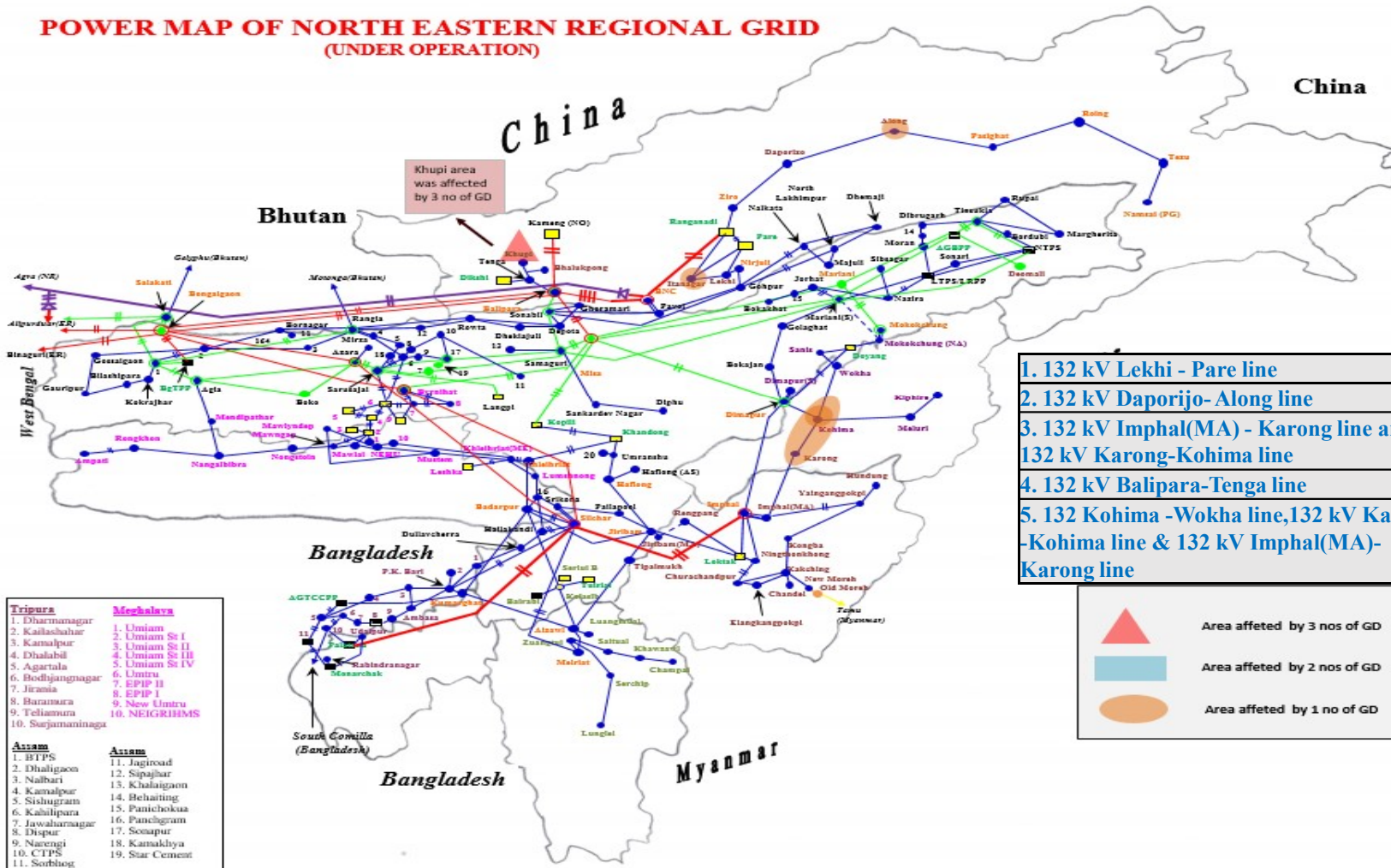
Where,
Predicted_i = Forecasted Value
Actual_i = Actual value
N = Total number of observations.

Day	Arunachal Pradesh	Assam	Manipur	Meghalaya	Mizoram	Nagaland	Tripura
Median	18	12	9	10	36	9	18



Grid Disturbance during Nov 2020

POWER MAP OF NORTH EASTERN REGIONAL GRID (UNDER OPERATION)



No. of GD	7
No. of GI	11

1. 132 kV Lekhi - Pare line	caused GD 1 times
2. 132 kV Daporijo-Along line	caused GD 1 times
3. 132 kV Imphal(MA) - Karong line and 132 kV Karong-Kohima line	caused GD 1 times
4. 132 kV Balipara-Tenga line	caused GD 3 times
5. 132 Kohima -Wokha line, 132 kV Karong-Kohima line & 132 kV Imphal(MA)-Karong line	caused GD 1 times

	Area affected by 3 nos of GD
	Area affected by 2 nos of GD
	Area affected by 1 no of GD

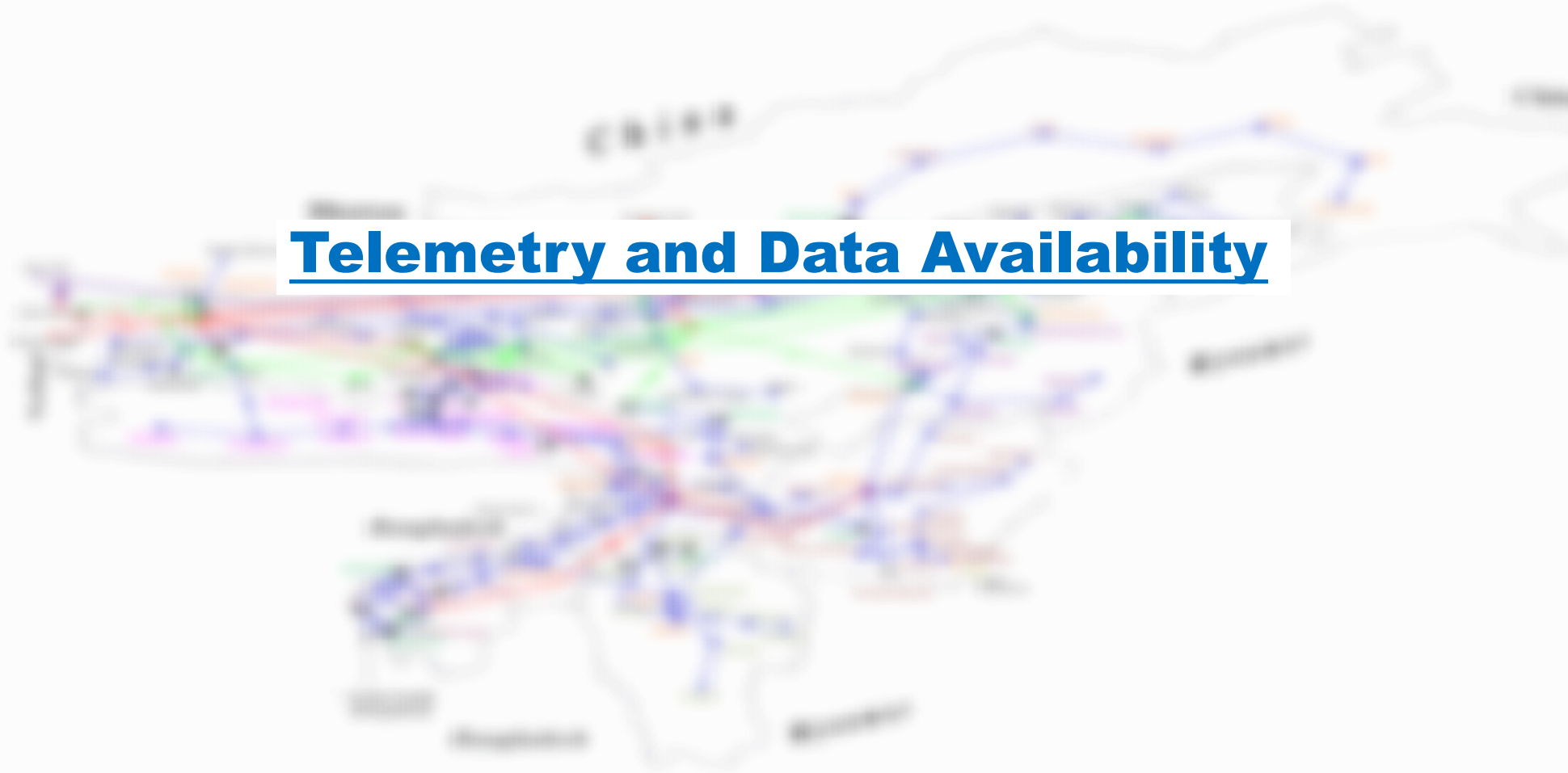
- | | |
|-------------------|------------------|
| Tripura | Mizhalava |
| 1. Dharmamagr | 1. Umiam |
| 2. Kailashahar | 2. Umiam Se I |
| 3. Kamalpur | 3. Umiam Se II |
| 4. Dhalabai | 4. Umiam Se III |
| 5. Agarata | 5. Umiam Se IV |
| 6. Bodhjangnagar | 6. Umtru |
| 7. Jirania | 7. EPIP II |
| 8. Buramura | 8. EPIP I |
| 9. Tellaamun | 9. New Umtru |
| 10. Sarjamaningra | 10. NEIGRHMS |
| Assam | Assam |
| 1. BTPS | 11. Jagirroad |
| 2. Dhaligaon | 12. Sipajhar |
| 3. Nalbati | 13. Khalaigaon |
| 4. Kamalpur | 14. Behaiting |
| 5. Sishugram | 15. Pamicokua |
| 6. Kahilpara | 16. Panichgram |
| 7. Jawaharnagar | 17. Socapur |
| 8. Dhapur | 18. Kamakhya |
| 9. Narengi | 19. Star Cement |
| 10. CTPS | 11. Sorbhog |



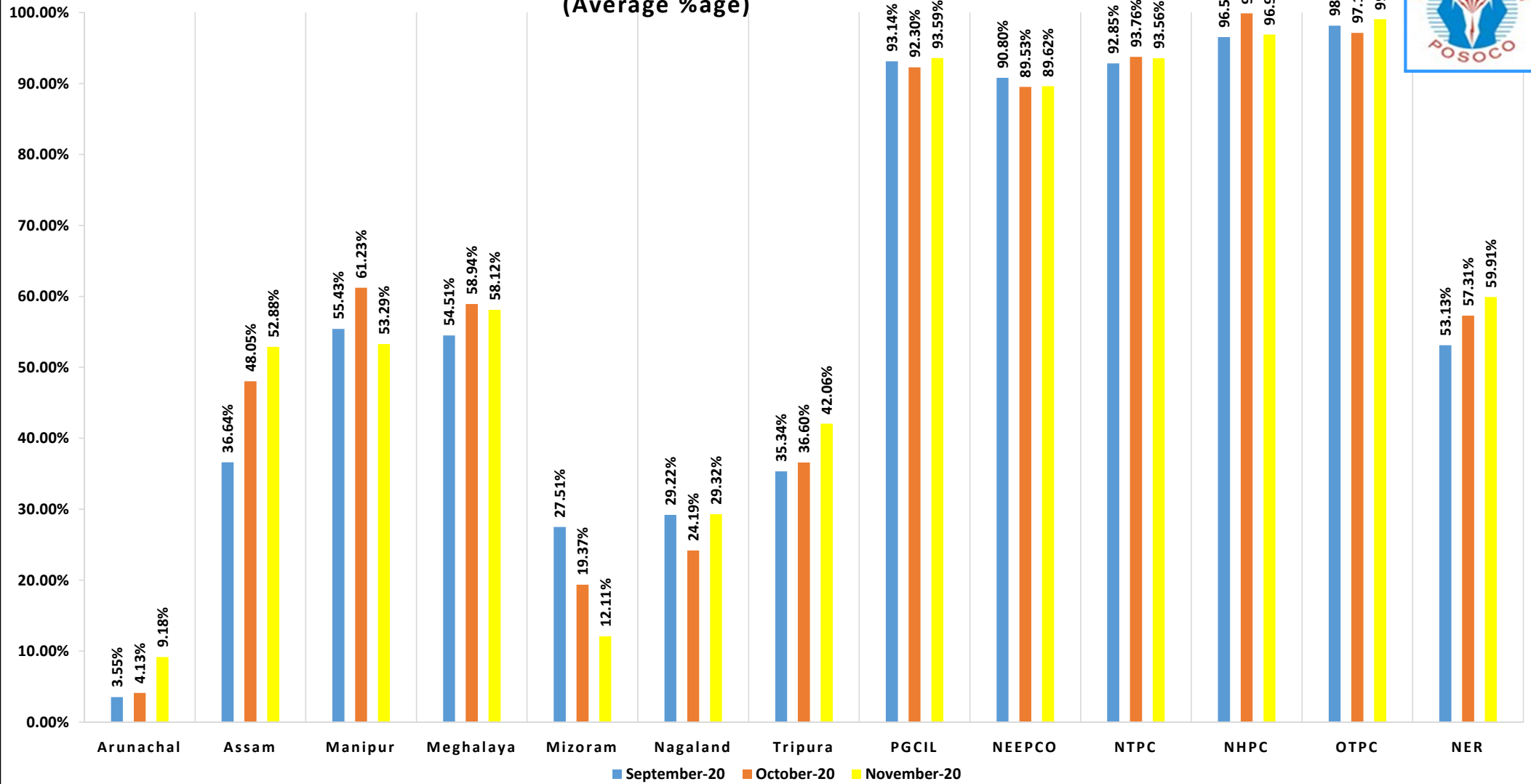
Number of Days as per Current Hydro Generation

Plants	Reservoir Level in meters (as on 06/12/2020)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong + Kopili STG II	719.2	24.67	1.038	24
Kopili	-	-	-	-
Doyang	323.8	36	0.185	195
Loktak	769.21	113	2.493	45

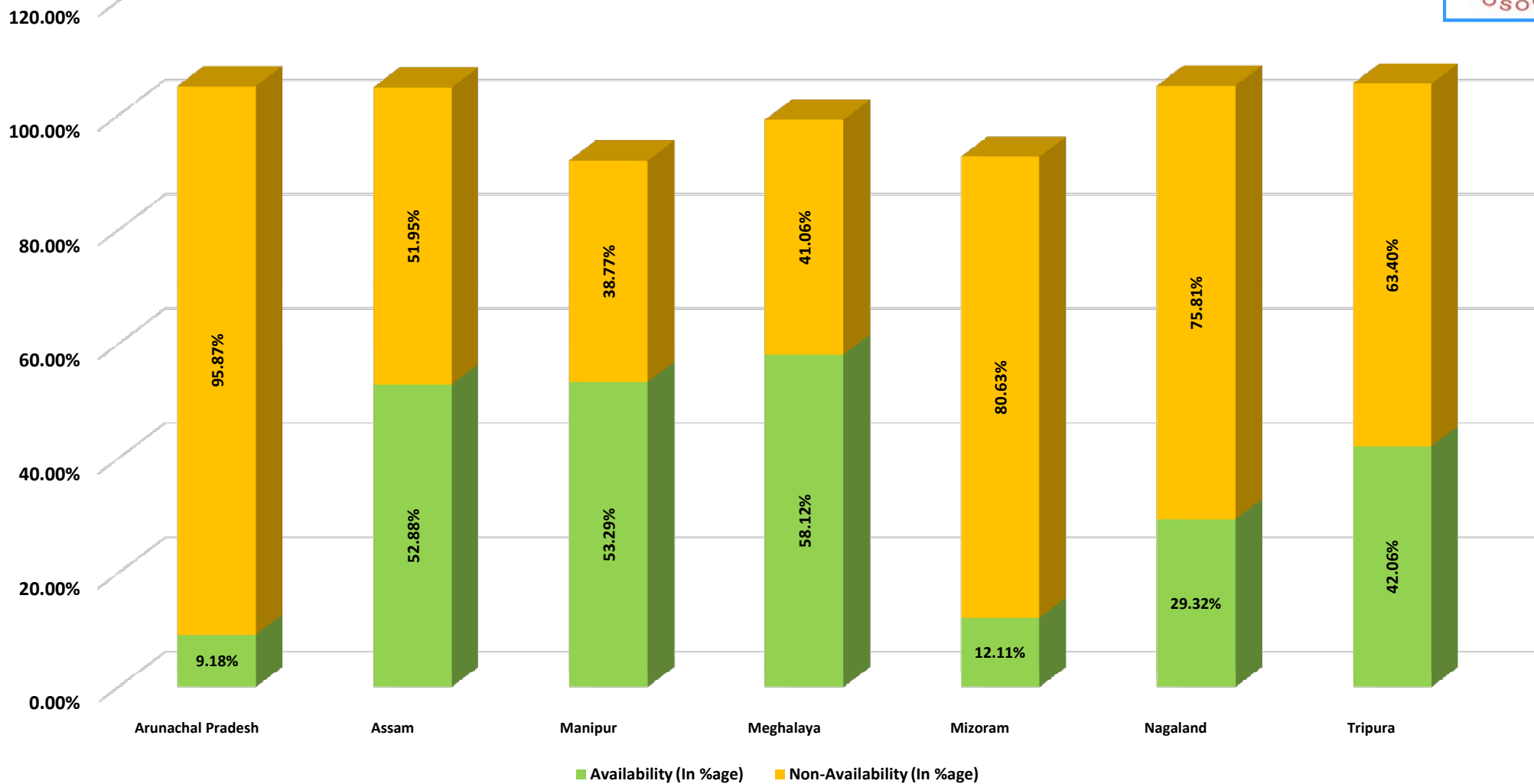
Telemetry and Data Availability



Comparison of Telemetry Availability Statistics (Average %age)



Telemetry Statistics for NER States (Average availability of data for the Month of Nov'20)





Telemetry Statistics for Central Sector of NER (Average availability of data for the Month of Nov'20)





Thank You

Annex-C.8

Details of RE Generation Projects							
Name of generation project	Name of potential RE Zone	Location (State, district)	Type (Wind, Solar, hybrid, Wind/ Solar with Storage, Small Hydro, Biomass etc.)	Total Capacity (MW) tied up /commissioned till 31.03.2020	Capacity (MW) tied-up /commissioned /to be commissioned during 2020-21 to 2026-27	Sub-station at which the RE generator is planned to be connected	Identified beneficiaries along with quantum of power, if any
Name of generation project	Name of potential RE Zone	Location (State, district)	Type (Wind, Solar, hybrid, Wind/ Solar with Storage, Small Hydro, Biomass etc.)	Total Capacity (MW) proposed to be commissioned during 2026-27 to 2031-32	Sub-station at which the RE generator is planned to be connected	Identified beneficiaries along with quantum of power, if any	

Annex-C.8

SI no.	Name of Substation	Type of Load (Domestic, commercial, Agriculture, Industrial etc.)	Maximum load in 2019-20 (MW)	Likely Maximum load in 2021-22 (MW)	Likely Maximum load in 2026-27 (MW)	Likely Maximum load in 2031-32 (MW)
1						
2						
3						

Annex-C.8

Details of intra-state transmission lines to be commissioned between 2021-22 to 2026-27						
Sl. No	From	To	Voltage Level (kV)	Length	Circuit (S/C or D/C)	Type of conductor
Details of intra-state transmission lines to be commissioned between 2026-27 to 2031-32						
Sl. No	From	To	Voltage Level (kV)	Length	Circuit (S/C or D/C)	Type of conductor
Details of Intra state ICT to be commissioned between 2021-22 to 2026-27						
Sl. No	Name of Substation	Volatge ratio	Capacity			
Details of Intra state ICT between to be commissioned between 2026-27 to 2031-32						
Sl. No	Name of Substation	Volatge ratio	Capacity			

RPO obligation of State/ UT			
	Solar	Non-solar	Total
2019-20			
2021-22			
2026-27			
2031-32			



NO. RMC GUWAHATI GH-I-031(EDQ)/III/ DATED 03.12.2020

To,
Mr. Palash Jyoti Baruah
System Operation-II Department
NERLDC, POSOCO

Sub : Latest status of site selection of AWS under POSOCO
Ref : Your email dated 02.12.2020

Sir,

With reference to your email dated, kindly find below the latest status as on 03.12.2020. Remaining AWS site will be selected after the normalisation of present pandemic situation.

LATEST SITE STATUS OF POSOCO (03.12.2020)

STATE : TRIPURA (Undertaken by M C Agartala)

SN	Name of sub-station where AWS required to be installed	LAT	LONG	Site approved or not
1	Grid S/S, 79 Tilla, Agartala			Site not suitable
2	S.M Nagar S/S			OK
3	Budhjungnagar S/S			OK
4	Jirania S/S			Site not suitable
5	Barmura GTP S/S			Site not suitable
6	Rokhia GTP S/S			Site not suitable
7	Banduar S/S, Udaipur			Site not suitable
8	Rabindranagar S/S, Udaipur			OK
9	SLDC, 79 Tilla for SCADA integraion and monitoring			Site not suitable
10	Gamaitilla S/S, Teliamura			Site not suitable
11	Ambassa S/S			Site not suitable
12	Garo Tilla S/S, Kamalpur			OK
13	P K Bari S/S, Kumarghat			Site not suitable
14	Gournagar S/S, kailasahar			OK
15	Mission Tilla S/S, Dharmanagar			Site not suitable
16	Dhalabil S/S, Khowai			OK

MANIPUR

SN	Name of sub-station where AWS required to be installed	Site approved or not	
1	Yurebam	Site not suitable	M O Imphal
2	Kaishampat	--do--	

1



STATE : MEGHALAYA (To be undertaken by M C Shillong)

SN	Name of sub-station where AWS required to be installed	Site approved or not
1	Byrnihat (Killing), Ri-Bhoi District	
2	Lumshnong Jaintia Hills District	Near Star Cement. Lot of dust. Site not suitable. Alternate site proposed at Khliriat
3	Mustem West jaintia Hills District	Site suitable after slight ground labelling
4	Mynkre S/S and Khliriat East Jaintia Hills District	--do--
5	Mendipathar East Khasi Hills District	
6	NEHU East Khai Hills District	
7	Lad Nongkrem (Mawlyndep), East Khasi Hills District	Site suitable after slight ground labelling
8	Nongstoin West Khasi Hills District LAT : 25° 30' 28.9" N LONG : 91° 14' 44.4" E AREA : 15 X12 m	Site suitable after slight ground labelling Contact Person : Mr. Nongkhlaw, RE (M) : 07640090103
9	Nangalbibra South Garo Hills District	
10	Rongkhon West Garo Hills District	
11	Ampati South West Garo Hills District	
12	Phulbari S/S, West Garo Hills District	

STATE : ASSAM

SN	Name of sub-station where AWS required to be installed	LAT	LONG	ADDRESS
1	NTPC, Bongaigaon, Salakati			OK
2	Gauripur			OK
3	BTPS			OK
4	Barnagar			OK
5	Mirza			OK
6	Rangia			OK
7	Agia			OK
8	Samaguri			OK
9	Gohpur			OK
10	Bokajan			
	Mariani	26° 63' 27"	94° 33' 50"	Mr. Mrinmoy Borah, Asstt. Manager, AEGCL, Mariani
	Nazira	26° 93' 77"	94° 74' 52"	Mr. Madhab Mandal Neog, Resident Engineer, 132 KV SS, AEGCL, Nazira
	NTPS	27° 18' 36"	95° 37' 75"	Shri Pankha Boham, Resident Engineer 220KV Grid SS, NTPS, AEGCL, Namrup
	Ledo	27° 17' 40.4"	95° 43' 48.3"	132 KV Margherita Sub Grid Station,

2



				Ledo, Near LEDO PHC NILOTPAL GOGOL, RESIDENT ENGINEER (M) : 70026 34841
	Panchgram			
	Dullavcherra			

STATE : AR. PRADESH/ASSAM

SN	Name of sub-station where AWS required to be installed	LAT	LONG	ADDRESS
1	Khupl S/S			
2	Itanagar S/S(Chimpu)			OK
3	Lekhi S/S			Not suitable
4	Daporizo S/S			
5	Aalo S/S			
6	Pasighat S/S			
7	Deomali S/S	27° 12' 49"	95° 28' 33"	Sri M M Singh, Jr. Engineer 220/132/33 SS, Deomali (M) : 094360-96387/ 098625-16933

This is for your information and kind necessary action.
Thanking you,

Yours sincerely,

(S.CHAKRABORTY)
METEOROLOGIST-B
For DDGM, RMC GUWAHATI