



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

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No. NERPC/SE (O)/OCC/2020/4183-220

Dated: 09th February, 2021

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. Chief Engineer (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, Dongtiah-Lower Nongrah, 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. GM, NERLDC, Dongtiah, Lower Nongrah, Lapalang, Shillong -793 006
24. Member Secretary, ERPC, 14 Golf Club Road, Tollygunge, Kolkata-700033
25. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066
26. Chief Engineer (NPC), NRPC Complex, Katwaria Sarai, SJSS Marg., New Delhi - 110016

Sub: Minutes of 174th OCC Meeting.

Sir/Madam,

Please find enclosed herewith the minutes of 174th OCC Meeting held at “Hotel Nandan, Guwahati” on the **19th January, 2021** 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,

B. Lyngkhoi
Director/ SE

Copy to:

1. CGM, AEGCL, Bijuli Bhavan, Guwahati - 781001
2. CGM, APGCL, Bijuli Bhavan, Guwahati - 781001
3. CGM, DISCOM, Bijuli Bhavan, Guwahati - 781001
4. Head of SLDC, Me.ECL, Lumjingshai, Short Round Road, Umjarain, Shillong – 793 022
5. Head of SLDC, Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
6. Head of SLDC, Department of Power, Dimapur, Nagaland
7. Head of SLDC, Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
8. Head of SLDC, Department of Power, Govt. of Mizoram, Aizawl – 796 001
9. Head of SLDC, TSECL, Agartala – 799 001
10. Chief Engineer(Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
11. Addl. GM (EED), NTPC Ltd., Bongaigoan Thermal Power Project, P.O. Salakati, Kokrajhar- 783369
12. DGM (C&M), OTPC, 6th Floor, A-Wing, IFCI Tower -61, Nehru Place, New Delhi – 110019.



Director/ SE

North Eastern Regional Power Committee

MINUTES OF THE 174th OPERATION COORDINATION

SUB-COMMITTEE MEETING OF NERPC

Date : 19/01/2021 (Tuesday)
Time : 10:30 hrs
Venue : “Hotel Nandan”, Guwahati.

The List of Participants in the 174th OCC Meeting is attached at **Annexure – I**

Member Secretary, NERPC welcomed all the participants to the 174th OCC meeting. He noted the presence of all utilities except P&ED Mizoram. Further, he appreciated the attendance from all member utilities in spite of the prevalent pandemic situation and also the protocol maintained for Covid19. He requested all the participants to actively participate in the meeting for fruitful deliberations.

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 173rd MEETING OF OPERATION COORDINATION SUB-COMMITTEE OF NERPC.

The minutes of 173rd meeting of Operation Sub-committee held on 11th December, 2020 at Shillong were circulated vide letter No. NERPC/SE (O)/OCC/2019/2674-2711 dated 30th December, 2020.

The Sub-committee confirmed the minutes of 173rd 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 174th OCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**	Line Differential Protection
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Ar. Pradesh	<p>Package-I (Diagnostic tools) Utilization certificate to be sent immediately alongwith final 10% requisition. P-II (for PLCC & communication) LOA issued. Requisition for 30% to be sent immediately. P-III (Substation equipment) NIT by Jan'20</p> <p>Station-wise status to be updated</p>	<p>Work completed. SAT pending. 90% disbursement completed.</p>	-	<p>TESG approval awaited</p>	-
Nagaland	<p>All completed except for PLCC package. Delayed due to COVID situation Station-wise status to be updated.</p>	<p>90% payment disbursed. Requisition to be sent for final 10%.</p>	-	<p>TESG approval awaited</p>	<p>Lines identified. Under DPR preparation stage.</p>
Mizoram	<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>
Manipur	<p>Package-II: completed Package-I: WIP Delayed due to COVID situation Station-wise status to be updated.</p>	<p>90% 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>33kV System Integration with SLDC</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.	60% amount to be disbursed.	-	LoA issued	Lines identified. Under DPR preparation stage.
Meghalaya	MePTCL Completed in all respects. MePGCL – completed in all respects.	Project complete in all respects.	-	LoA issued.	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 Assam and Tripura to expedite the process.

Director(O&P), NERPC requested DoP Ar. Pradesh to issue the tender for Pkg-III at the earliest and submit requisition for 30% for all packages by Feb'20.

The forum noted and approved the nomination of Sh. Rupanka Goswami, AGM, SLDC, Assam as the Nodal Officer for ADMS Project w.e.f. 26.05.2020.

The Sub-Committee noted as above.

Action: All state utilities/NERPC.

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

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

NER PERFORMANCE DURING DECEMBER, 2020

States	Energy Met (MU)		w.r.t. Nov,20 % inc (+) /dec (-)	Energy Reqr. (MU)		w.r.t. Nov,20 % inc (+) /dec (-)	% surplus (+) /shortfall (-) of energy In Dec,20
	Dec-20	Nov-20		Dec-20	Nov-20		
Ar. Pradesh	65.56	60.79	7.85	66.21	61.06	8.43	-0.98
Assam	725.6	733.18	-1.03	743.7	750.62	-0.92	-2.43
Manipur	94.91	80.86	17.38	95.44	81.25	17.46	-0.56
Meghalaya	202.45	175.04	15.66	202.95	175.04	15.94	-0.25
Mizoram	55.8	62.85	-11.22	56.12	63.14	-11.12	-0.57
Nagaland	70.54	66.41	6.22	70.92	66.76	6.23	-0.54
Tripura	165.59	180.06	-8.04	165.61	180.09	-8.04	-0.01
Region	1380.45	1359.19	1.56	1400.95	1377.96	1.67	-1.46

States	Demand Met (MW)		w.r.t. Nov,20 % inc (+) /dec (-)	Demand in (MW)		w.r.t. Nov,20 % inc (+) /dec (-)	% surplus (+) /shortfall (-) of demand In Dec,20
	Dec-20	Nov-20		Dec-20	Nov-20		
Ar. Pradesh	141	134	5.22	141	149	-5.37	0.00
Assam	1437	1724	-16.65	1437	1724	-16.65	0.00
Manipur	249	227	9.69	252	232	8.62	-1.19
Meghalaya	384	353	8.78	384	353	8.78	0.00
Mizoram	127	121	4.96	127	121	4.96	0.00
Nagaland	150	143	4.90	155	151	2.65	-3.23
Tripura	239	270	-11.48	239	270	-11.48	0.00
Region	2690	2832	-5.01	2714	2860	-5.10	-0.88

REGIONAL GENERATION & INTER-REGIONAL EXCHANGE IN MU

Month---->	Nov-20	Oct-20
Total Generation in NER (Gross)	1164.59	1164.59
Total Central Sector Generation (Gross)	316.33	316.33
Total State Sector Generation (Gross)	1480.92	1480.92
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 December'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	714.95	73.022	0.2935	249
Kopili			0	Will be "0" until further intimation.
Doyang	322.65	30	0.1485	202
Loktak	769.12	250	1.659	151

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 February, 2021 which is available in the website of NERPC.

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

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

The Sub-Committee noted as above.

C.4 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) For permanent restoration NERLDC, NEEPCO, NERTS and NERPC would discuss and send common agenda for deliberation of NERPCTP.
- (iii) For temporary restoration NERTS to submit proposal for deliberation in OCC.

Deliberation of the sub-Committee:

Director(O&P), NERPC requested NEEPCO to submit the DPR as decided in the 2nd NERPCTP meeting. For permanent restoration the forum decided to submit a revised proposal for deliberation in the next NERPCTP.

Pls refer to deliberations in item No. **C.19.**

The Sub-Committee noted as above.

Action: NEEPCO, NERTS

C.5 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.
- 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.

- 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 to assist P&ED Mizoram for appeal process so that no burden is passed onto the state.

Deliberation of the sub-Committee:

CGM(AM), NERTS informed that 3 nos CT have been supplied and 3 more nos are yet to be supplied by Mizoram for the swapped bays. The forum noted that it is essential to charge the 132/33kV Sihhmui Sub-station so that Mizoram can draw power. After detailed deliberation it was decided that in one week time frame both NERTS and P&ED Mizoram would apply for FTC of 132kV Melriat-Sihhmui D/C and 132kV Bus & ICT at Sihhmui respectively.

The Sub-Committee noted as above.

Action: NERTS, P&ED Mizoram.

C.6 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:

The OEM visit has been delayed due to COVID restrictions. OTPC also informed the forum that the same will be done during the planned shutdown proposed in March-April'21.

The Sub-Committee noted as above.

Action: OTPC.

C.7 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 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.

The deliberations of the 173rd OCC were as follows:

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.

Deliberation of the sub-Committee:

SE(SO&PSC), DoP Ar. Pradesh informed that 132kV Balipara-Khupi was taken over on 15th December, 2020. Sr. Manager, NEEPCO informed that even though the line has been handed over, NEEPCO would continue the existing AMC till 31st August, 2021.

Director(O&P), NERPC informed that the Joint Inspection for 33kV Khupi-Kimi line shall be carried out by Feb'20.

The Sub-Committee noted as above.

Action: NEEPCO, DoP Ar. Pradesh, NERPC.

C.8 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 that the shutdown of thermal units is supposed to be in peak hydro periods i.e. August-September as agreed previously in OCC forum. AGM, SLDC, Assam and EE, SLDC, Meghalaya stated load shedding would be required to accommodate the shutdown and the same is not desired at all. Further EE, SLDC, Meghalaya stated that OTPC supplies the base load of Meghalaya in the lean hydro season, whose absence would severely impact power supply to the state.

Sr. Manager, OTPC informed the following:

- a. Shutdown of plants necessitated to maintain safety during pigging activities by ONGC.
- b. The rotor for Block-2 shall be replaced and the existing one shall be sent for testing.
- c. The shutdown shall not be required for another 5 years.

CGM, NERLDC stated that presently power is available aplenty in the market and ATC-TTC is no constraint. After detailed deliberation the forum decided to take up the matter in the next OCC meeting for approval.

The Sub-Committee noted as above.

Action: NERPC.

C.9 Actual generation incorporation in schedule during any backing down incident:

AGTCCPP generation was backed down during shutdown of 400kV Silchar- Azara on 07.12.2020, 17.12.2020, 20.12.2020. During these AGTCCPP wanted the actual generation to be provided on the same day. A time period needs to be finalized as when the actual generation shall be incorporated in schedule.

Deliberation of the sub-Committee:

CGM, NERLDC informed that backing down shall be incorporated in the final schedule submitted to RPC for accounting.

The Sub-Committee noted as above.

Action: NERLDC

C.10 Changing Declared Capacity during emergency or forced shutdown of generating units:

It has been observed that sometimes due to sudden downstream issue Pare machine were taken in forced outage. But the required DC revision was not done immediately by Pare for which the states have to bear the deviation during that time.

Deliberation of the sub-Committee:

After detailed deliberation it was decided that wherever DC not revised by generator, NERLDC would not give benefit of doubt and would not suo-moto revise the schedule on generator request. In such emergency situations, generators should promptly revise their own Declared Capacities in WBES.

The Sub-Committee noted as above.

Action: NERLDC

C.11 RHEP Bus 1 shutdown extension:

RHEP Bus 1 shutdown was approved on 17.12.2020 from 10:00hrs to 12:00hrs with all elements being transferred to BUS-2 in online mode without outage of any element. But during Shutdown, RHEP failed to perform online mode transfer. Also, the Bus Shutdown was not returned and extended to 4 January 2021 without approval from NERPC.

Deliberation of the sub-Committee:

The forum took strong note of the mis-information by NEEPCO and requested all utilities to desist from such actions in the future. Also, NEEPCO told the forum that online transfer of generating units is not possible due to technical reasons and hence requested the forum for shutdown of both the buses for few minutes for shifting of generating units from one bus to another in offline mode. The forum agreed for such arrangement provided the same should be clearly mentioned in the shutdown/outage

requests applied by NEEPCO, subject to system studies and real time grid conditions. Also, NEEPCO was requested to explore possibilities for online transfer of elements to other bus during shutdown of one bus.

The Sub-Committee noted as above.

Action: all utilities.

C.12 Non-availing of charging code:

Charging of ISTS line without code:

132kV Melriat(PG)-Zuangtui tripped from Mizoram end and Mizoram charged the line without taking code from NERLDC. Such practise should be strictly avoided in future.

Availing opportunity shutdown without intimation to NERLDC:

PGCIL on 132kV Main Bus at BiswanathChariali (Without intimation to NERLDC) -

The shutdown of 132kV Main Bus at BiswanathChariali was approved from 06:00 to 10:00hrs on 27.12.2020. PGCIL has availed opportunity shutdown without intimation to NERLDC. The opportunity shutdown was returned at 10:29hrs which led to huge load restriction at Assam.

NEEPCO (With intimation to NERLDC) - Planned Shutdown of 132 kV R.C. Nagar - Kumarghat Line was availed by POWERGRID for dismantling and erection works for GIS augmentation of Kumarghat SS which was approved from 08:00 hrs to 16:00 hrs on 14.12.2020. Opportunity shutdown of the line was availed by AGTCCPP for checking of auto-reclosing circuit and relay testing.

POWERGRID returned the shutdown at 16:49 hrs on 14.12.2020 after completion of the works at their end. The shutdown was returned at 21:20hrs.

Availing of NERLDC real time code for generation unit switching:

As recorded in minutes of 173rd OCC against item no C.1 and in compliance to clause 5.2.c of IEGC, all the ISGSs are required to take real time operating code from NERLDC control room for any kind of synchronization and desynchronization of unit to the Grid. Also, in line with the section 10.6 (para 2) of Operating Procedures for North Eastern Region “The code issued by NERLDC for opening / restoration of the element signifies such approval only from the system point of view. Notwithstanding anything contained in safety measures and other switching operations to be carried out locally. The related line/sub-station personnel would be responsible for ensuring all safety precautions while opening /closing of any element to avoid any threat to operating personnel and equipment.” local safety measure and other switching operation to be ensured locally.

Deliberation of the sub-Committee:

NERLDC informed that 132kV Biswanath-Chariali bus was approved from 06:00hrs to

10:00hrs and the same was returned in time by M/s STERLITE, however NERTS had availed opportunity shutdown without any information to NERLDC and the Bus could be charged on 11:44 hrs only. AGM, SLDC, Assam informed that the resulting delay caused immense inconvenience for consumers due to increase in load shedding time. The forum requested all the utilities to take code from NERLDC while availing opportunity shutdown and return the same before the approved time of the planned S/D. And also requested all generating utilities to avail code for any shutdown in the station. It was agreed by the forum that in accordance to the Operating Procedures for North Eastern Region the related line/sub-station/generating-station personnel would be responsible for ensuring all safety precautions while opening/closing of any element/generating unit to avoid any threat to operating personnel/general public and equipment.

The Sub-Committee noted as above.

Action: all utilities.

C.13 Review of Automatic Under Frequency Load Shedding Relay Settings in NER:

In the 19th NERPC Meeting held on 28th& 29th Nov'18, it was approved to revise the stages of the operation of UFR from existing frequency band of 49.2 – 48.6 Hz (100MW) to 49.4 – 48.8Hz (170MW) in four stages viz., 49.4 Hz, 49.2 Hz, 49.0 Hz, 48.8 Hz. Also, the issue was deliberated, and constituents agreed for implementation of revised band of frequency and quantum of load shedding during the 148th OCC Meeting. Constituents are requested to update the latest status on the same.

Deliberation of the sub-Committee:

Director(O&P), NERPC stated that during protection audit in Arunachal Pradesh the feeders can be identified for installation of UFR. He further stated that following actions need to be taken by the states i.r.o. implementation of UFR as per 19th NERPC meeting:

1. Identification of feeders for additional installation of UFRs
2. Review the existing locations of UFR installation w.r.t. loading and connectivity.

After detailed deliberation the forum requested all the state utilities viz. SLDC, STU to plan and inform the detailed plan in the next OCC meeting.

The Sub-Committee noted as above.

Action: all state utilities.

C.14 Step Response Test and Reactive Power Capability Test of Kameng HEP:

As per the Provisional Approval for Synchronisation of Unit 3 & 4 of Kameng HEP

issued by NERLDC on 18.12.20, it was stated that Reactive Power Capability test, step response test and PSS tuning for Unit 1, 2, 3 and 4 of Kameng HEP is to be completed prior to Trial Operation of Unit 3 and 4. NEEPCO may intimate the status and expedite the necessary tests.

Deliberation of the sub-Committee:

NERLDC informed that tests are ongoing at Kameng HEP for Unit 1, 2 & 3 and Unit#4 has been first time synchronized on 19-01-2021. Further, forum congratulated NEEPCO for successful synchronization of Unit-4 of Kameng.

The Sub-Committee noted as above.

C.15 Early installation of 420kV 80MVAR B/R at RHEP:

As per 7th Meeting of Standing Committee on Power System Planning of North-Eastern Region (SCPSPNER), it was agreed that NEEPCO would install 1x80 MVAR,420 kV Bus Reactor along with associated GIS bays at Ranganadi. The same was approved in the 19th TCC & RPC Meeting held on 28th & 29th December'2018.

In the 1st Meeting of NERPC (TP)/2nd Meeting of NERSCT held on 8th Nov'19, a timeline of 18 months for implementation of the 1x80MVA,420 kV Bus Reactor was approved.

NEEPCO is requested to expedite the commissioning of the Bus Reactor as voltage rise issue is witnessed at Ranganadi throughout the year and gets more severe during the lean hydro period leading to difficulty in grid operation.

Deliberation of the sub-Committee:

Sr. Manager, NEEPCO highlighted the difficulties in commissioning of 80MVAR B/R at RHEP viz.

- (i) 3-phase Bus Reactor not possible to transport to site location
- (ii) No space for installation of single phase reactor.

The forum referred the matter to the next NERPCTP meeting for discussion.

The Sub-Committee noted as above.

Action: NEEPCO, NERPC.

C.16 Commissioning of 132kV Loktak-Ningthoukong Ckt#II:

As per the Minutes of 4th Standing Committee Meeting on Power System Planning of North Eastern Region held on 13th December 2014, it was mentioned by MSPCL that 132 kV Loktak-Ningthoukhong D/C is being planned and shall be implemented by Manipur as associated transmission system along with 132 kV Loktak-Renpang D/C for Loktak Downstream HEP (66 MW), which is being implemented by LHDCL, a joint

venture of NHPC & Govt. of Manipur. As the second circuit of 132 kV Loktak-Ningthoukhong is very crucial for the reliability of Manipur Power System, MSPCL is requested to furnish the latest status of commissioning of the line and also the progress of other double circuit links in Manipur

Deliberation of the sub-Committee:

Manager, SLDC, MSPCL informed that RoW issues are being faced and the remaining stringing shall be completed thereafter. The target date for the completion of the project is 31st March 2021.

The Sub-Committee noted as above.

Action: MSPCL.

C.17 Proposal to design islanding schemes for Capital loads of NER states:

Continuous power supply in the capital areas of the respective states is of utmost importance for its normal functioning. Any incident of power supply failure in the capital cities causes severe disturbance to the economic activities and disrupts the life of its citizens. One such case occurred in the capital city of Maharashtra, Mumbai on the 13th of Oct'20 where power supply was disturbed for long hours.

All the SLDCs are requested to look into the designing of appropriate islanding schemes for their respective capital loads and coordinate with NERLDC along with providing all necessary information required to design the same. NERLDC is presently working towards developing islanding schemes for the capital cities. As first attempt, Islanding Scheme of Guwahati city considering Generation from BgTPP(NTPC) & Capital loads of Kahilipara, Dispur, Kamakhya, Sisugram, Sarusajai, Narengi, Jawaharnagar, Azara, Boko areas is under designing stage.

Deliberation of the sub-Committee:

After detailed deliberation it was decided that NERLDC would design the islanding scheme and place in the next OCC meeting for ratification. GM, NERLDC informed the forum that the same will be done with the co-operation of States and ISGSs, starting from capital of Assam.

The Sub-Committee noted as above.

Action: NERLDC.

C.18 Revised Power evacuation from southern part of NER to Main grid during outage of both 400kV Silchar- Azara and 400kV Silchar – Killing

Due to the addition of 400kV New Kohima- New Mariani DC and 315MVA ICT 2 at New Mariani to the grid, the Silchar gate flow has been revised from 50MW to around

250MW-300MW. Also, the backing down of generation in the southern part of NER grid will be reduced depending on the real time system study.

Deliberation of the sub-Committee:

CGM, NERLDC informed the forum regarding the revision of Silchar Gate Flow and necessary reduction of backing down of generation of Southern part of NER. Also, NERTS informed the status of following elements:

1. 400kV Mariani-Misa: By Feb'21
2. 400/220kV Mariani Transformer: By Jan'21

The Sub-Committee noted as above.

C.19 Mobile Substation for Emergency Restoration of EHV system in NER:

In NER, it has been experienced that there are outages of substation/Generating Station/EHV element /s due to natural calamities. Recent such example is outage of generating station namely Kopili HEP, NEEPCO due to fresh flood/failure of penstock.

Further, for restoration of EHV systems in time, insurmountable constraints are faced by utilities like tough terrain, poor response from vendors for supply & services in NER especially in remote locations within stipulated period.

Hence it is suggested that mobile substation may be kept as regional spare for critical central sector stations where the affected station (suffering outage) in part can be bypassed under urgency and Incoming & Outgoing TLs be directly connected/terminated to TL Towers through the mobile station solution) till the main station is restored to its shape. The Mobile substation with bay modules will have the following facilities for emergency restoration of bays:

- a) 1 no. 220kV Bay with all EHV equipment & protection system
- b) 1no. 132kV Bay with all EHV equipment & protection system

Tentative Cost estimate is Rs.8.42 Crore (apx) excluding taxes & duties and F&I. The matter was discussed in 168th OCC where POWERGRID gave a presentation.

NERLDC & NERPC also stressed the need for mobile substation

Deliberation of the sub-Committee:

SE, SLDC, Meghalaya opined that even though 400kV system is present, 132kV level connectivity is essential for Meghalaya both for evacuation of Leshka generation and to cater the winter demand of Capital area. SE(SO&PSC), DoP Ar. Pradesh stated that capacity should be sufficient and portable enough to cater to the transfer of power in all cases. AGM, SLDC, Assam stated that enquired whether one 220kV bay and one 132kV

bay would be sufficient or/not and how priority would be given for the usage by various utilities of NER. Regarding sufficiency of one bay CGM(AM), NERTS clarified that one 220kV bay can operate as line bay (Misa bay one circuit) and one 132kV bay can operate as line bay (Khandong bay one circuit). He further informed that the ICT as well as ICT bays are in good condition and the same can be used during temporary restoration. After detailed deliberation the forum approved in-principle and referred the matter to TCC/RPC for approval.

The Sub-Committee noted as above.

Action: NERTS/NERPC.

C.20 Re-instatement of 5 MVA,3-Phase 132/33KV Power Transformer at POWERGRID Kumarghat Substation:

It may be noted that 5MVA,3-Phase- 132/33kV Power Transformer (Bharat Bijlee Make) at 132kV Kumarghat S/S is taken out of service due to ageing. The power transformer tripped due to Buchholz operation. On analysis, it was found that same was due to poor value of degree of polarization wrt insulation level of paper over windings. OEM intimated that there is no more support for repair or rectification as the power transformer was manufactured apx.39yrs ago. Hence it is proposed to procure a new 5 MVA transformer in the ongoing project NERSS VIII.

Deliberation of the sub-Committee:

DGM, SLDC, TSECL informed that the ICT is required for Tripura system. The forum referred the matter for TCC/RPC approval.

The Sub-Committee noted as above.

Action: NERTS/NERPC.

C.21 Temporary non-availability of teleprotection for 132kV Badarpur-Kumarghat:

As intimated by AEGCL the following arrangements are being done to establish tele-protection & telemetry for 132kV Badarpur-Karimganj-Kumarghat:

- Existing protection panel (BPL make) between Kumarghat and Badarpur to be shifted from Badarpur to Karimganj for establishing protection link between Karimganj and Kumarghat.
- A DPLCC panel (SIEMENS make) will be shifted to Badarpur PG GSS from Srikona(AEGCL) for the establishment of communication link between Badarpur and Karimganj

For this tele-protection shall not be available between Kumarghat and Badarpur between 8th to 12th February'2021.

Deliberation of the sub-Committee:

After detailed deliberation the forum approved the non-availability of telemetry during

the said period of time. Also, NERTS informed that auto-recloser will not operate for the said line during the period.

The Sub-Committee noted as above.

Action: AEGCL.

C.22 Corrosion of towers in 400kV Silchar-Byrnihat-Azara D/C line traversing through highly polluted area near Byrnihat:

A portion of 400 kV D/C Silchar-Byrnihat-Azara line is passing through a highly polluted area near Byrnihat. Because of such pollution, the porcelain insulators installed in towers of in this area during the construction time got damaged due to lightning flashover because of dust deposition on the insulators, which were later replaced with Polymer insulator.

Now, again due to this heavy pollution in the area, quite a no. of towers in the area have got rusted, out of which altogether 6 (Six) no. of towers viz. tower no. 448, 554, 580, 581, 582& 583 have got severely affected and suffered intensive corrosion. (Photographs enclosed for ready reference). If such corrosion continues, there is a chance that the entire towers may collapse in near future due to damage of the tower stub & members. Therefore, to avoid further corrosion, NETC has taken up high tech painting in whole tower body of these towers by using zinc rich anticorrosive galvanized paint along with the additional coating of rust converter and acid resistant. For this work NETC has placed an award with an agency, with a work completion period of 5 month i.e. prior to the upcoming rainy season, considering the difficulties in such work in towers during rainy days.

By taking all safety precautions, the main tower body is being painted without taking any shutdown, but for the cross-arm sections, the line shutdown is required, for a shutdown plan for Silchar-Byrnihat & Silchar-Azara ckt is enclosed herewith.

It is mentioned here that, the total cost of subject painting work including supply & execution is around Rs. 100 lakhs. NETC being a very small Organization, it will be difficult on its part to bear such heavy expenditure. Therefore, it is proposed that the booking of such heavy expenditure be met through PoC mechanism.

Deliberation of the sub-Committee:

DGM, NETC stated that the suggested 6 nos. towers are located in heavily polluted area. Further corrosion is expected in the future. CGM, NERLDC stated that around 32 lakhs would be borne under the distance, direction mechanism of POC and rest would be shared nationally. The forum approved in-principle and referred the matter to TCC/RPC for further deliberation.

The Sub-Committee noted as above.

Action: NETC/NERPC.

D. ITEMS FOR STATUS REVIEW

D.1 Status update of important grid elements under prolonged outage impacting system operation:

Sl. No	Element	Owner	Status as informed in the 173 rd OCCM	Status as informed in the 174 th OCCM
1	132kV Dimapur - Imphal	NERTS	Charged on 10-12-20 at 16:00hrs	To be dropped
2	63MVAR L/R for 400kV Palatana-SilcharCkt-I	OTPC	By Jan'21	Put in service on 08-01-2021
3	132kV Jiribam – Rengpang	MSPCL	Mar'21	Charged upto Rengpang S/Sn on Jan'21
4	132kV Rangia-Rowta	AEGCL	by Feb'21	by Feb'21
5	132kV Mariani – Mokokchung(out since April'2008)	AEGCL	Study results favourable. Insulator replacement to be taken up.	Proposal put up for approval.
6	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
7	132kV Roing-Pasighat (charged through ERS tower)	NERTS	Apr'21	Pile by Apr'21
8	220kV Mariani-Mokokchung - I	NERTS	-	B/R bay used to charge the line. By 31 st March

The Sub-Committee noted as above.

Action: all utilities as above.

D.2 Status of commissioning for Upcoming projects:

Sl. No	Name of the element	Utility	Status as informed in 173 rd OCC meeting	Status as informed in 174 th OCC meeting
1	LILO of 132kV Surjamaningar-Budhjungnagar-I at Surjamaningar(ISTS)	TSECL	Work completed. Charging by Dec'20**	Completed and charged on 28-12-2020

2	LILO of 132kV P.K.Bari-Ambassa at P.K.Bari(ISTS)	TSECL	Work completed. Charging by Dec'20**	FTC on 29-01-2021
3	400kV Palatana-Surjamaninagar D/C	NERTS	Jan'21	By Mar'21
4	400kV Silchar - P.K.Bari D/C	NERTS	Jan'21	By Feb'21
5	132kV Monarchak-Surjamaninagar	TSECL	By Mar'21. Exact reasons for delay and status to be sent to CEA.	3 tower RoW issue persisting. Stringing for 21km completed. By March'21.
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	OBD 30 th Dec'20 Completion by Aug'21	LOA by Jan'21
8	Bay at 132kV Agia S/Sn for 132kV Agia-Nangalbibra-II	AEGCL	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.	MePTCL clearance awaited to charge the line.
9	Upgradation of 132kV Lumshnong - Panchgram line	MePTCL	PSDF approval awaited.	PSDF approval awaited.
10	Diversion of 132kV Bawktlang-Sihhmui	NERTS	By Jan'21	By Mar'21
11	PLCC for 132kV Karong-Kohima	MSPCL	Letter sent to MD, MSPCL.	To be updated
12	400/220kV 500MVA ICT at Mariani	NERTS	Dec'20	Jan'21

SE(SO&PSC), DoP Ar. Pradesh informed that early commissioning of 132kV Rupai-Chapakhowa and 132kV Roing - Chapakhowa is very much essential to reduce the dependence of Arunachal Pradesh on radial 132kV RHEP-Ziro-Daporizo-Aalo-Pasighat-Roing-Tezu-Namsai line. CGM(AM), NERTS informed that 132kV Roing-Chapakhowa is under tendering stage and 132kV Rupai-Chapakhowa & Chapakhowa station is under Comprehensive Scheme. The forum decided to monitor the status of the two lines and 132kV Chapakhowa regularly in OCC.

The Sub-Committee noted as above.

Action: all utilities as above.

D.3 Upgradation of important 132kV links in TSECL system:

132kV Surjamaninagar-Budhjungnagar & 132kV PKBari-Ambassa has been LILO'ed at 400/132kV Surjamaninagar(ISTS) and 400/132kV PKBari(ISTS).

In 173rd OCCM 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.

Deliberation of the sub-Committee:

DGM, SLDC, TSECL informed that the upgradation to HTLS of the above mentioned lines is not acceptable to Tripura and the matter is being taken up with MoP. Meanwhile it has also been requested to MoP to retain one circuit connectivity of Palatana-Surjammnagar(TSECL) via 132kV for uninterrupted Bangladesh supply. NERLDC clarified that upgradation of one circuit of 132kV Palatana-Surjammnagar(TSECL) D/C to 400kV and connection to 400kV Surjammnainagar(ISTS) with retention of another circuit connectivity to 132kV Surjamaninagar(TSECL)) would still cause the system to operate without N-1 Security. The forum decided to refer the matter to the next TCC/RPC meetings.

The Sub-Committee noted as above.

Action: NERPC.

D.4 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:

Sr. Manager, NEEPCO informed that shutdown programme for the above works has been planned in Feb'21.

The Sub-Committee noted as above.

Action: NEEPCO

D.5 Testing of Primary Governor response of NER Generating units as per IEGC Cl.5.2(g):

Schedule as agreed in the 174th OCC meeting

Region	Station	No. of generators	Schedule	Duration (days)
NER	NEEPCO Ranganadi	3	26th Dec'20 to 30th Dec'20	5
NER	NEEPCO Turial	2	To be decided later	4
NER	NEEPCO-Monarchak	2	23 rd Mar'21 to 30 th Mar'21	8
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	21st Dec'20 to 24 th Dec'20	4
NER	OTPC- Palatana	2	In May'21	4
NER	NTPC Bangaigaon TPP	3	Last week of Apr'21 or May'21	6
NER	NHPC Loktak	3	22 nd Feb'21 to 27 th Feb'21	6

The Sub-Committee noted as above.

Action: NEEPCO, NHPC, NTPC, OTPC.

D.6 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.7 SEM time drift:

The 172nd OCCM forum requested NERTS to replace the time-drift SEMs at the earliest. The status will be updated by NERTS in the next OCC Meeting.

The Sub-Committee noted as above.

Action: NERTS.

D.8 Integration of SEMs with laptop/PC for data downloading:

Decisions as per deliberation in the previous OCC forum:

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

The status will be updated by NERTS in the next OCC Meeting.

The Sub-Committee noted as above.

Action: NERTS, NERLDC, NERPC.

D.9 Second Meter List for replacement:

In 173rd OCCM 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.10 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 174th OCCM NERTS assured to complete the procurement process by Mar'21.

The Sub-Committee noted as above.

Action: NERTS.

D.11 SEM data collecting Laptop related issues:

List of DCD distribution location has been provided in 172nd OCCM by NERLDC. The status will be updated by NERTS in the next OCC Meeting.

The Sub-Committee noted as above.

Action: NERTS.

D.12 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.

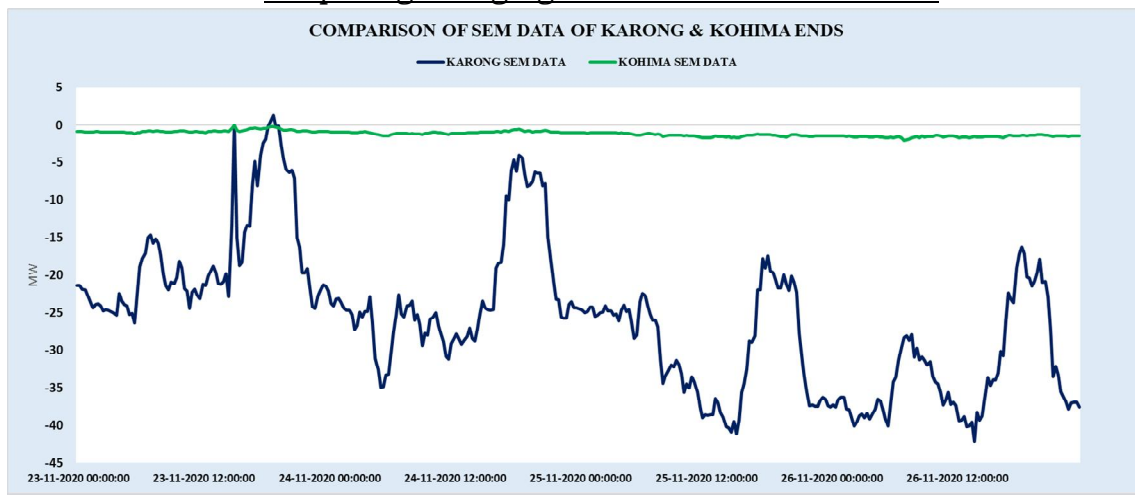
Action: NERTS.

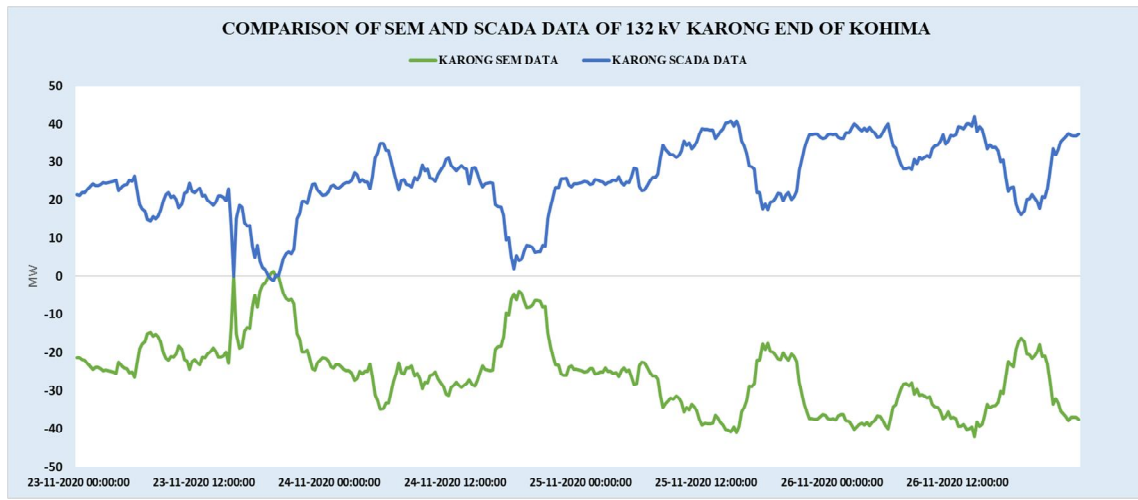
D.13 Sign Reversal Problem:

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





In 173rd OCCM 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.

Deliberation of the sub-Committee:

Manager, SLDC, MSPCL informed that polarity for SEM has been changed on 21st Dec'20. SDO, SLDC, DoP Nagaland informed that the series connection of SEM with SCADA has been completed. Wiring issue at Kohima end to be resolved with the help of POWERGRID by 23rd Jan'21. NERLDC was requested to verify the same at the earliest.

The Sub-Committee noted as above.

Action: NERLDC

ADDITIONAL AGENDA FROM MEGHALAYA:

D.14 Metering issues for Sarusajai/Kahelipara- Umtru:

EE, SLDC, Meghalaya informed vide mail dated. 07-01-2021 the following:

“There was power flow between Meghalaya - Assam via Umtru Grid Sub Station. But It was found that NERLDC did not compile the same in the Regional Energy Accounting and also in the DSM Prepared. It was later know by the Undersigned that the Meters (SEMs) at Kahilipara and at Sarusajai were not in working conditions and due to time drifting issues.

However, it was not aware by the Office of the undersigned till we found out that when Meghalaya was continuously under drawal from the grid on the 9th December 2020, we came to realised that Import and Export of power from the Umtru Bus towards Sarusajai and Kahilipara were not included in the calculations of the State drawal.

I therefore attached herewith the SEMs reading downloaded by Umtru (AFTER we

received the DCD from PGCIL). However during October 2020 (16th October 2020 and 22nd October 2020) we were also having POWER FLOWS between the stations.

We therefore requested you to kindly revised the DSM for the missing dates by including the SCADA reading as compile by SLDC Meghalaya for the dates when there was no SEMs readings.

THE SCADA READINGS OF the 09th DECEMBER can be compare with the SEM reading for the Date and the ratio be used for calculation of the Energy for the remaining dates as well.”

Deliberation of the sub-Committee:

After detailed deliberations the forum accepted the suggestions of EE, SLDC, Meghalaya and requested NERLDC to incorporate the SEM readings at Umtru in Actual Generation/Drawal data so that the same can be updated in DSM accounts. Further for those periods whenever no SEM data from either end is available it was decided to use the SCADA data for DSM accounting. NERLDC was requested to modify the Mwh data accordingly and send to RPC for revision in accounting.

The Sub-Committee noted as above.

Action: NERLDC, NERPC.

E. ITEMS FOR INFORMATION

AGENDA ITEMS FROM NERLDC:

E.1 Black Start and Restoration Procedure:

Black-start and Restoration Procedure of NER Grid 2020 will be published by NERLDC within January 2021. The draft document will be shared with all stakeholders for comments and feedback soon.

This is for information only.

E.2 Draft Operating Procedure:

Draft Operating Procedure for NER 2021 was sent to all NER utilities by mail for feedback. With the help of all the utilities the Operating Procedure has been finalised. The copy of Operating procedure shall be kept in the control room of all ISGS and SLDCs.

This is for information only.

Date & Venue of next OCC meeting:

It is proposed to hold the 175th OCC meeting of NERPC on second week of February, 2021. However, exact date and venue will be intimated in due course.

Annexure-I

List of Participants in the 174th OCC Meeting held on 19.01.2021

SN	Name & Designation	Organization	Contact No.
1	Sh. Nangkong Perme, SE (E), SO&PSC,	Ar. Pradesh	
2	Sh. Arif Iqbal, AGM	Assam	09435733302
3	Sh. Rupanka Kishore Goswami, AGM (SLDC)	Assam	09613146565
4	Sh. Mriganka Bhuyan, AGM (SLDC), AEGCL	Assam	09101302916
5	Sh. N.Romeo Singh, DM, SLDC	Manipur	-
6	Sh. Th. Anilbasu Singh, DM, TD, MSPCL	Manipur	-
7	Sh. B. Saibon, SE, SLDC	Meghalaya	-
8	Sh. T. Gidon, EE, SLDC	Meghalaya	-
9	Sh. W. Khyriem, EE, GSPD	Meghalaya	-
10	Sh. M.N. Tariang, JE (System Protection)	Meghalaya	07005620013
11	Sh. A.G. Tham, AEE, MePTCL	Meghalaya	09774664034
	No Representative	Mizoram	
12	Sh. Rokobeito Iralu, SDO	Nagaland	-
13	Sh. Asangba Tikhir, EE SLDC	Nagaland	-
14	Sh. Anil Debbarma, DGM (SLDC)	Tripura	09612589250
15	Sh. Ashim Kr. Sarmah, Manager (E/M)	NEEPCO	09435078860
16	Sh. R. Sutradhar, CGM	NERLDC	09436302714
17	Sh. S.C. De, GM, SO-II	NERLDC	09436335369
18	Ms. Bornali Nath, Engineer	NERLDC	08414927752

19	Sh. Adarsh Jaiswal, Engineer	NERLDC	08876735354
20	Sh. U. Kataki, CGM (AM)	PGCIL	09435505418
21	Sh. Devaprasad Paul, Ch. Mgr (AM)	PGCIL	09435382360
22	Sh. Marang Randa, Sr. Manager (E)	NHPC	09932028693
23	Sh. Narendra Kumar Gupta, Sr. Manager (O)	OTPC	09774233426
24	Sh. P.R. Jena, AGM (OS)	NTPC	09774233426
25	Sh. Kangkan Paul, DM (EEMG)	NTPC	09435029230
26	Sh. Anil R. Sah, DGM	NTPC	09999055047
27	Sh. Ratan Singh Basnet, Sr. Mgr.	NETC	08811072489
28	Sh. A.K. Thakur, Member secretary	NERPC	-
29	Sh. B. Lyngkhoi, Director (O&P)	NERPC	09436163419
30	Sh. S. Mukherjee, Dy. Director	NERPC	08794277306



उ.पू.क्षे ग्रिड प्रदर्शन

NER GRID PERFORMANCE

For the month December 2020

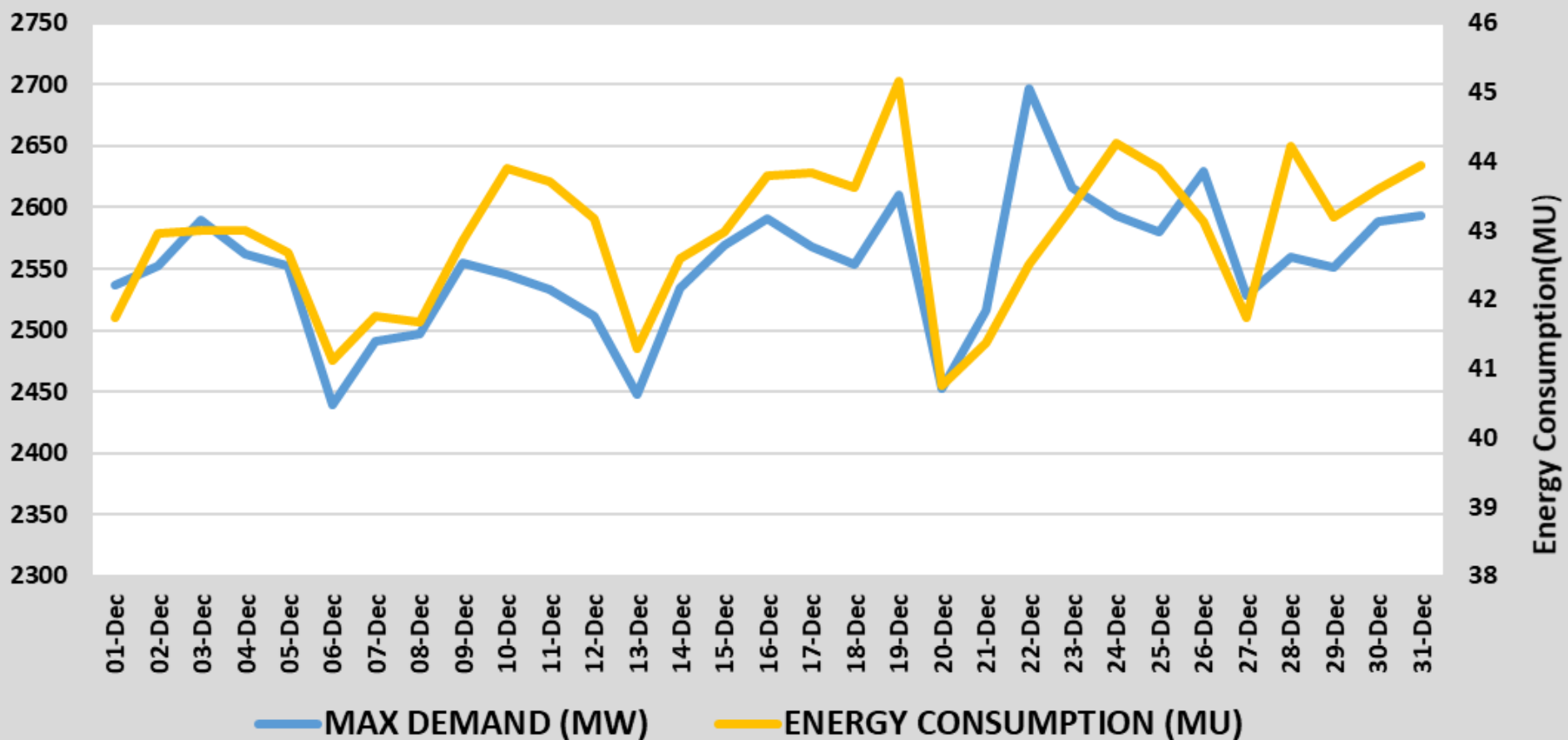
North Eastern Regional Load Despatch Centre

POSOCO, Shillong

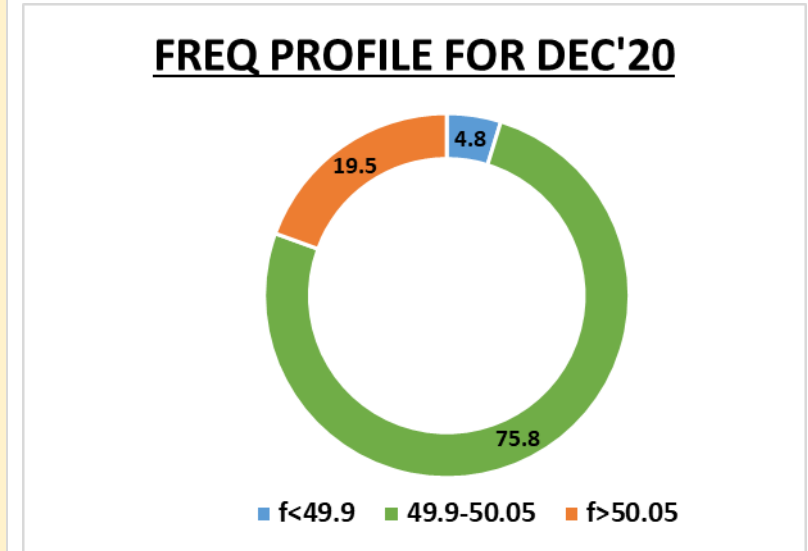
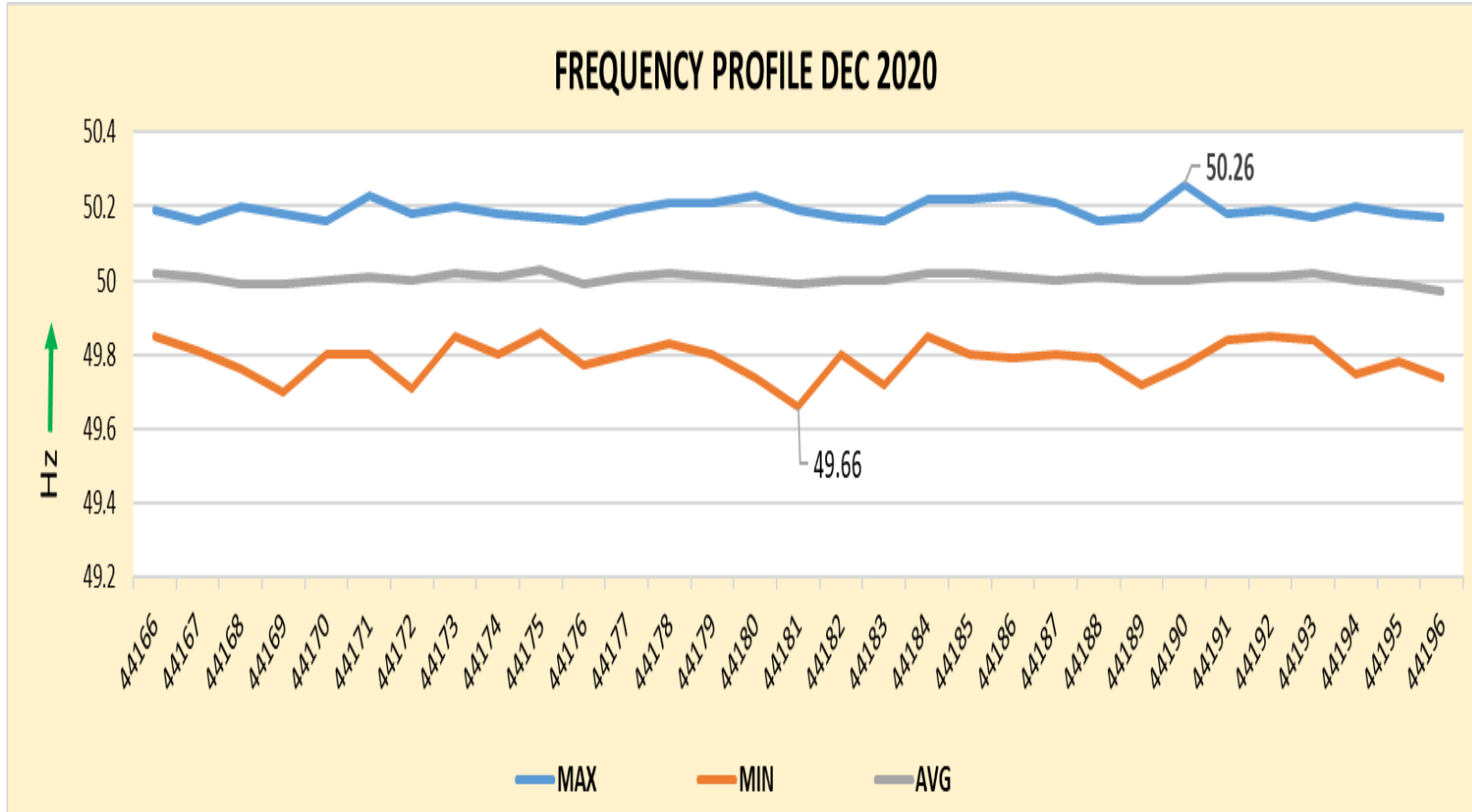
Maximum MW and MU in NER: Dec 2020



Maximum Demand (MW) and Energy Consumption (MU)

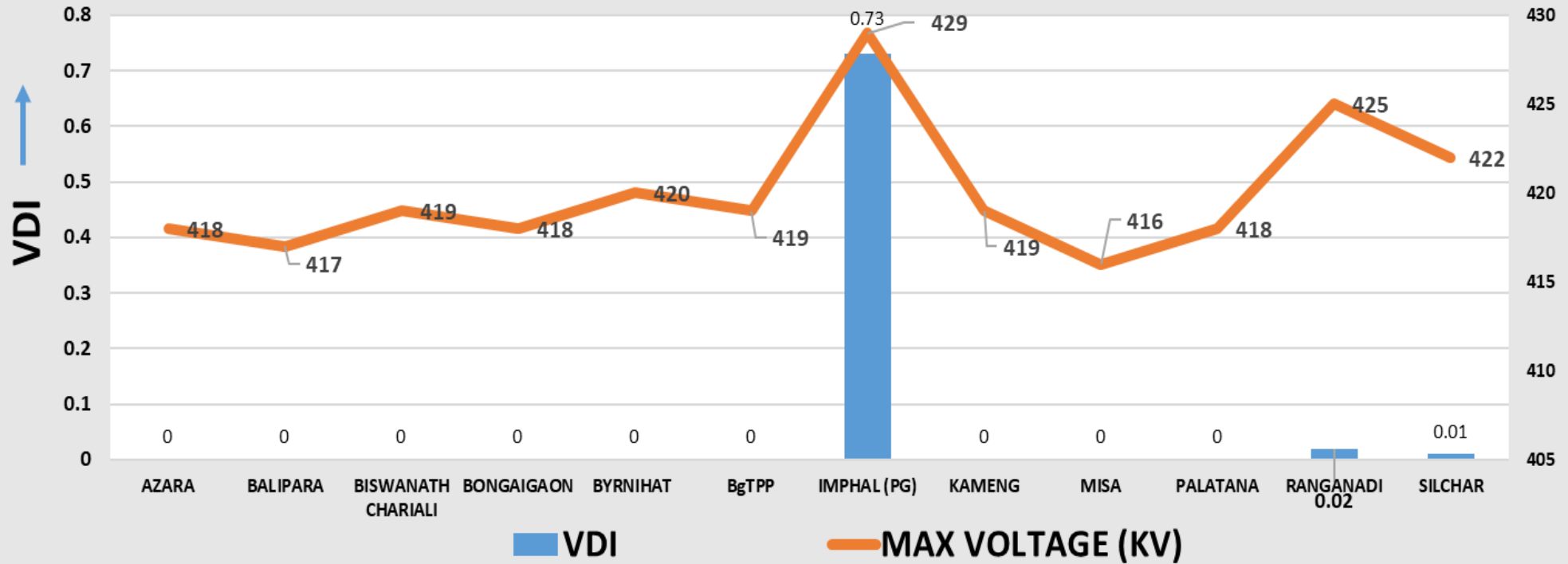


Frequency Profile



VDI (400 KV) FOR DEC 2020

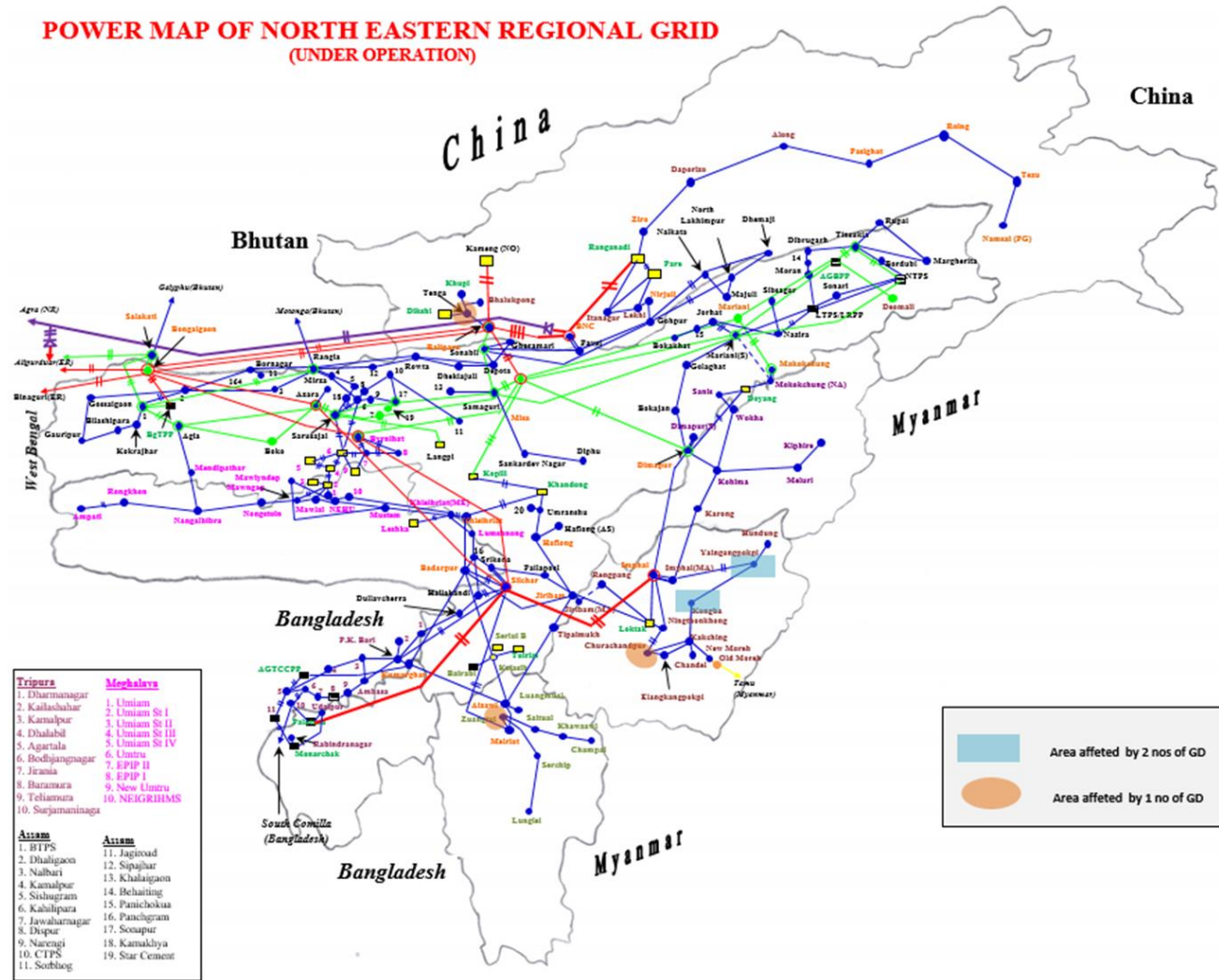
No. of 400 kV lines kept open for over voltage : 1



Grid Disturbance during Dec 2020



**POWER MAP OF NORTH EASTERN REGIONAL GRID
(UNDER OPERATION)**



No. of GD	7
No. of GI	3

132KV MELRIAT-ZUANGTUI-1	caused GD 1 times
132 kV Ningthoukong - Churachandpur D/C	caused GD 1 times
4. 132 kV Balipara-Tenga line	caused GD 1 times
132 kV Imphal(Yurembam)- Yiangangpokpi 1 & 2 lines	caused GD 2 times
132 kV Yiangangpokpi - Kongba line tripped along with 132 kV Imphal(Yurembum) - Yiangangpokpi II line	caused GD 2 times

Number of Days as per Current Hydro Generation



Plants	Reservoir Level in meters (as on 17/01/2021)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong + Kopili STG II	714.95	73.022	0.2935	249
Kopili	-	-	-	-
Doyang	322.65	30	0.1485	202
Loktak	769.12	250	1.659	151

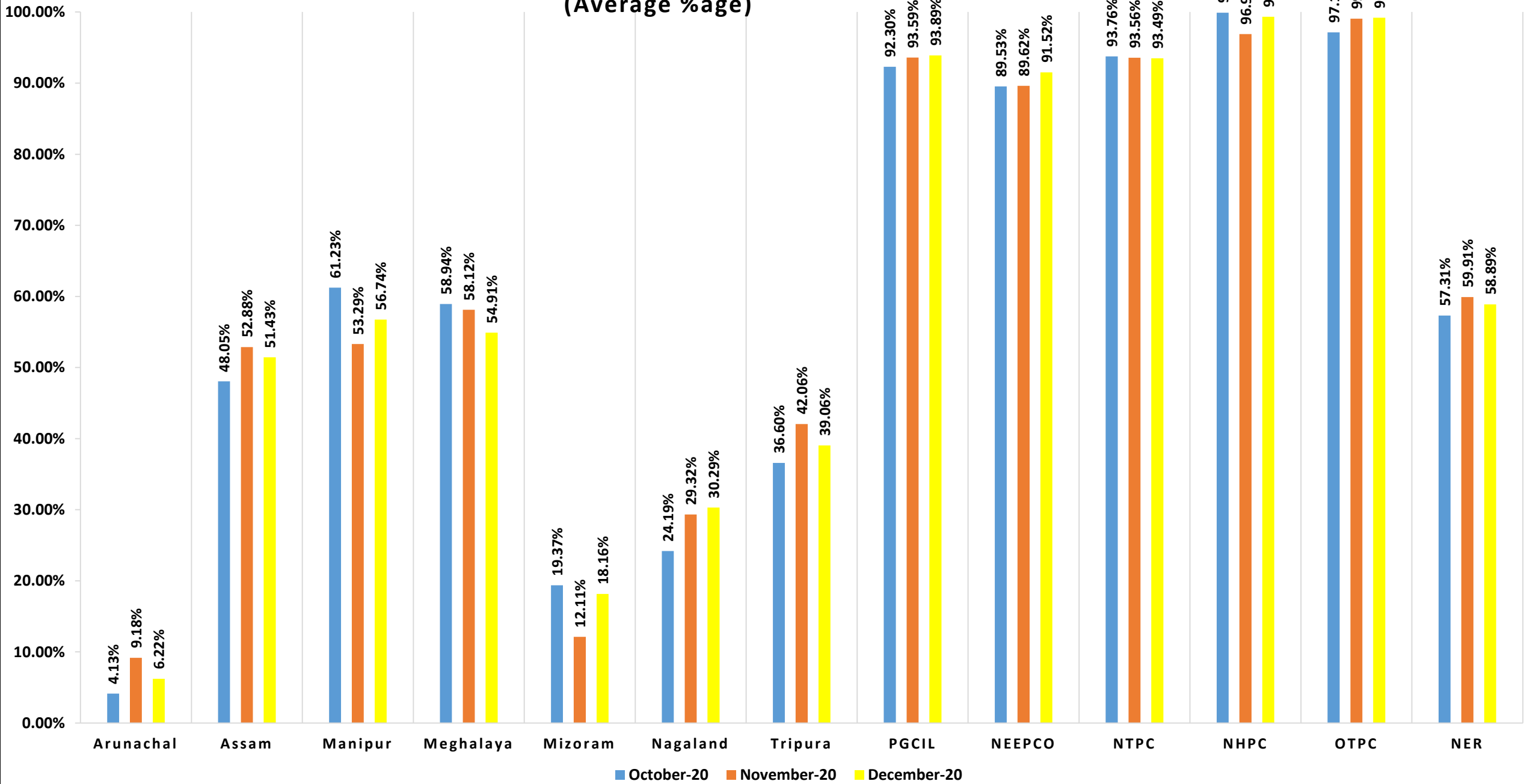
172th OCC approved shutdown status

Availing Agency	Total Shutdown approved	Total shutdown availed
PGCIL	69	50
NTPC	3	2
NEEPCO	2	1
AP	3	1
Assam	35	18
Manipur	3	3
Meghalaya	3	3

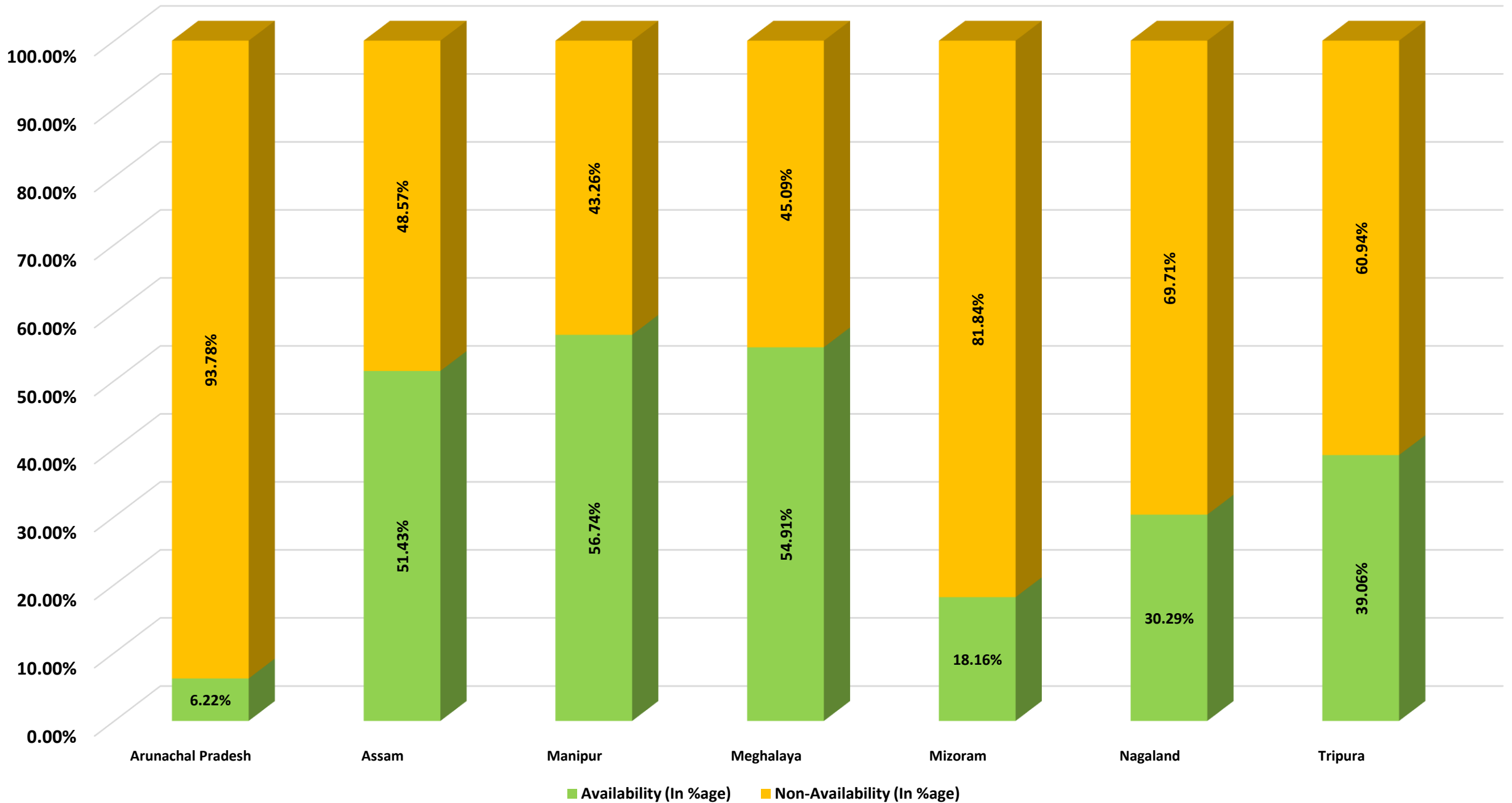


Telemetry and Data Availability

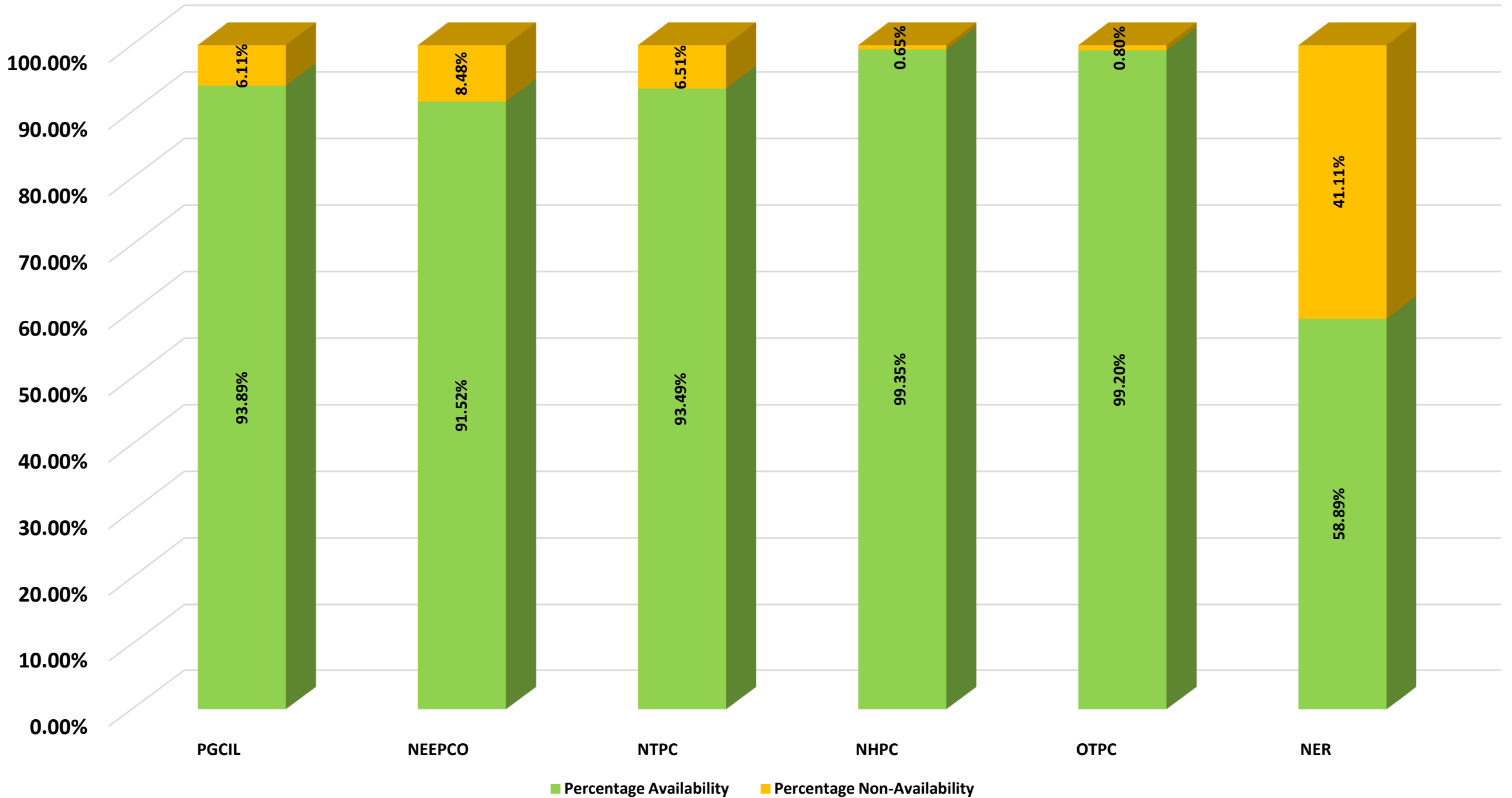
Comparison of Telemetry Availability Statistics (Average %age)



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



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





Thank You