



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/ **5014-5051**

Dated: 03rd March, 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, Dongtieh-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, Dongtieh, 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 175th OCC Meeting.

Sir/Madam,

Please find enclosed herewith the minutes of 175th OCC Meeting held at “Hotel Nandan, Guwahati” on the **18th February, 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 175th OPERATION COORDINATION

SUB-COMMITTEE MEETING OF NERPC

Date : 18/02/2021 (Thursday)
Time : 10:30 hrs
Venue : “Hotel Nandan”, Guwahati.

The List of Participants in the 175th OCC Meeting is attached at **Annexure – I**

Member Secretary, NERPC welcomed the participants to the 175th OCC meeting. He noted the presence of all utilities except P&ED Mizoram. He briefed the forum about the important decisions taken in the 21st TCC/NERPC meetings held on 03rd/4th February, 2021 in Guwahati. He further intimated the forum that some important items have been referred to the next SCM/NERPCTP meeting and requested all the concerned utilities to positively attend the same.

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 174th MEETING OF OPERATION COORDINATION SUB-COMMITTEE OF NERPC.

The minutes of 174th meeting of Operation Sub-committee held on 19th January, 2021 at Shillong were circulated vide letter No. NERPC/SE (O)/OCC/2019/2674-2711 dated 08th February, 2021.

OTPC vide mail dated. 10th February’2021 has requested for the following modifications:

As recorded in item No. C.8

“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.”

Modification sought by OTPC

OTPC shutdown was planned in low demand period declared by NERLDC. SD planning in high demand period will cost OTPC on Loss of availability as per tariff regulation 2019-24. OTPC requested forum High hydro period can declare as low demand period for SD planning of OTPC units.

OTPC Informed the forum major overhaul is not every year phenomena, so long SD of units is come approximately once in five year (year of SD can be deferent for deferent units).

Proposed SD was approved by forum after detailed deliberation.

Deliberation of the 175th OCC:

Sr. Manager, OTPC requested for a deferment in the shutdown programme as follows:

- (i) Block-II (363.3MW) from 15.03.2021 to 14.04.2021
- (ii) Block-I (363.3MW) from 07.04.2021 to 13.05.2021

CGM, NERLDC stated that when both the modules of Palatana would be under shutdown ATC for the region is constrained to 775MW. This is due to demand in Southern part of NER grid and limitation in power transfer via 220kV BTPS-Salakati D/C. The demand met for the region from the grid is expected to be 2119MW, own generation 612MW and Demand Met 2731MW. CGM(Comm.), APDCL intimated that Assam demand is expected to be greater than the predicted demand of 1481MW, due to assembly election. After detailed deliberation the following were decided:

- a. The shutdown of Palatana GBPP was approved as per revised schedule.
- b. During shutdown of both the modules of Palatana GBPP all states except Assam unanimously agreed to curtail their demand to the extent that the regional ATC/TTC is not violated.

The Sub-committee confirmed the minutes of 175th OCCM of NERPC with the above modifications as no other 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 175th OCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**	Line Differential Protection
Ar. Pradesh	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 Mar'20 Station-wise status to be updated	Work completed. SAT pending. 90% disbursement completed.**	-	TESG approved.	-
Nagaland	All completed except for PLCC package. Delayed due to COVID situation Station-wise status to be updated.	90% payment disbursed. Requisition to be sent for final 10%.	-	TESG approved	Lines identified. Under DPR preparation stage.
Mizoram	Completed. 10% remaining claim to be submitted ASAP.	Final 10% requisition submitted.	To reply to TESG queries.	TESG approved	DPR submitted.
Manipur	Package-II: completed Package-I: WIP Delayed due to COVID situation Station-wise status to be updated.	90% disbursed. Final 10% requisition to be sent immediately.	LOA issued. Requisition to be sent for first tranche.	TESG approved	Lines identified. LDP for 132kV Imphal-Imphal and 132kV Jiribm-Jiribam proposed. Under DPR preparation stage.

	33kV System Integration with SLDC	In tendering stage			
	Reliable Communications for grid connectivity	In tendering stage			
Tripura	Work completed. 10% remaining claim to be sent ASAP. Station wise status to be updated.	Remaining 20% of first tranche to be disbursed. 60% requisition to be sent immediately.	Study results to be submitted alongwith DPR	TESG approved	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 stated that for ADMS project; MoP has decided to have physical audit jointly to be carried out by NERLDC, NPC & NERPC. Further he stated that for PDMS audit will be carried out jointly by NERLDC & RIO-NE by Feb’21.

The Sub-Committee noted as above.

Action: All state utilities/NERPC.

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

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

NER PERFORMANCE DURING JANUARY, 2020

States	Energy Met (MU)		w.r.t. Dec,20 % inc (+) /dec (-)	Energy Reqr. (MU)		w.r.t. Dec,20 % inc (+) /dec (-)	% surplus (+) /shortfall (-) of energy In Jan,21
	Jan-21	Dec-20		Jan-21	Dec-20		
Ar. Pradesh	70.59	65.56	7.67	70.9	66.21	7.08	-0.44
Assam	732.1	725.6	0.90	746.87	743.7	0.43	-1.98
Manipur	90.78	94.91	-4.35	91.11	95.44	-4.54	-0.36
Meghalaya	209.84	202.45	3.65	209.84	202.95	3.39	0.00
Mizoram	55.21	55.8	-1.06	55.54	56.12	-1.03	-0.59
Nagaland	69.18	70.54	-1.93	69.5	70.92	-2.00	-0.46
Tripura	172.68	165.59	4.28	172.7	165.61	4.28	-0.01
Region	1400.38	1380.45	1.44	1416.46	1400.95	1.11	-1.14

States	Demand Met (MW)		w.r.t. Dec,20 % inc (+) /dec (-)	Demand in (MW)		w.r.t. Dec,20 % inc (+) /dec (-)	% surplus (+) /shortfall (-) of demand In Jan,21
	Jan-21	Dec-20		Jan-21	Dec-20		
Ar. Pradesh	149	141	5.67	149	141	5.67	0.00
Assam	1461	1437	1.67	1461	1437	1.67	0.00
Manipur	239	249	-4.02	239	252	-5.16	0.00
Meghalaya	376	384	-2.08	376	384	-2.08	0.00
Mizoram	128	127	0.79	128	127	0.79	0.00
Nagaland	134	150	-10.67	134	155	-13.55	0.00
Tripura	228	239	-4.60	228	239	-4.60	0.00
Region	2660	2690	-1.12	2689	2714	-0.92	-1.08

REGIONAL GENERATION & INTER-REGIONAL EXCHANGE IN MU

Month---->	Jan-21	Dec-20
Total Generation in NER (Gross)	1166.43	1164.59
Total Central Sector Generation (Gross)	343.97	316.33
Total State Sector Generation (Gross)	1510.40	1480.92
Inter-Regional Energy Exchange		
(a) NER-ER	268.31	12.58
(b) ER-NER	0	293.49
(c)NER-NR	0	339.39
(d)NR-NER	287.31	11.67
© Net Import	19	-46.81

AVERAGE FREQUENCY (Hz)

Month---->	Jan-21	Dec-20
	% of Time	% of Time
Below 49.9 Hz	1.05	1.28
Between 49.9 to 50.05 Hz	86.50	84.10
Above 50.05 Hz	12.45	14.62
Average	49.99	50.00
Maximum	50.25	50.17
Minimum	49.93	49.92

Deliberation of the sub-Committee:

NER grid performance for the month of January'21 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	713.05	12	0.151	79
Kopili			0	Will be "0" until further intimation.
Doyang	321.25	28	0.1425	196
Loktak	767.47	58	0.987	59

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

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

NETC and POWERGRID have submitted the outage data for the month of February, 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:

ED, NERLDC stated that since the temporary arrangement has already been approved, the same may be expedited by NERTS and may come up with an action plan for the same.

Regarding the permanent restoration the forum referred the matter for discussion in the next OCC meeting.

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.

In 174th OCC meeting CGM(AM), NERTS informed that 3 nos CT have been supplied and 3 more nos are yet to be supplied 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.

Deliberation of the sub-Committee:

NERLDC informed the forum that P&ED Mizoram has not applied for FTC of 132kV Sihhmui Bus and ICT at Sihhmui yet. CGM(AM), NERTS informed that CT healthiness is being checked at Sihhmui and the application for FTC of 132kV Melriat-Sihhmui shall be done by Feb'21. The forum requested NERTS and P&ED, Mizoram to apply for FTC of the elements at the earliest.

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:

Sr. Manager, OTPC informed that works would be completed by May'21 after the shutdown of both the modules of OTPC Palatana.

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 174th OCC meeting 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.

Deliberation of the sub-Committee:

Director(O&P), NERPC stated that the inspection for 33kV Khupi-Kimi would be carried out in Mar'21 prior to OCC meeting. AE (SLDC), DoP Ar. Pradesh requested that Khupi - Kimi line may be charged at 132kV level prior to 132kV Balipara Bus shutdown.

DGM, NEEPCO stated that upgradation works for 33kV Khupi-Kimi line have been awarded by NEEPCO. After detailed deliberation the forum approved daytime shutdown of 132kV Balipara Bus for three consecutive days. Letter will be issued by NERPC to NEEPCO for early completion of the work.

The Sub-Committee noted as above.

Action: NEEPCO, DoP Ar. Pradesh, NERPC.

C.8 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.

In 174th OCC meeting 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.

Deliberation of the sub-Committee:

State utilities updated the status of the identification of feeders and review of existing UFR locations as below:

Name of the utility	Time period
DoP Ar.Pradesh	By Feb'21
Assam	By 25-02-2021
Manipur	To be updated
Meghalaya	By Feb'21
Mizoram	To be updated
Nagaland	**
Tripura	To be updated

** SDO, SLDC, DoP Nagaland opined that higher quantum of UFR based loading may be accommodated in ADMS. This would enable better monitoring by SLDC and also achieve partial loading in radial feeders in and around Dimapur.

The Sub-Committee noted as above.

Action: all state utilities.

C.9 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.

In 174th OCC meeting 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.

Deliberation of the sub-Committee:

NERLDC stated that the islanding scheme would be presented in the next Special Meeting for SPS and Islanding Schemes.

The Sub-Committee noted as above.

Action: NERLDC.

C.10 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

In 174th OCC meeting 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.

Deliberation of the sub-Committee:

Member Secretary, NERPC informed the forum that the 21st TCC/RPC had approved the Procurement of Mobile Bays with funding from PSDF, NEC etc. Thereafter NERTS was requested to present the action plan and DPR in the OCC forum for ratification. CGM(AM), NERTS stated that more than one vendors are being requested to submit their Budgetary Offer. The forum requested NERTS to positively submit the DPR by 24th February'21.

The Sub-Committee noted as above.

Action: NERTS/NERPC.

C.11 Planned day time shutdown of 132kV Silchar-Melriat D/C:

The S/D was approved from 19.01.2021 to 29.01.2021 hrs on a daily basis. On daily basis, the S/D return time was delayed which caused severe low voltage in Mizoram system and high loading of 132kV Silchar-Badarpur D/C during peak hours. The daytime shutdown was not withdrawn on 29.01.2021. Due to outage of 132 KV Silchar - Melriat D/C other planned shutdowns were deferred. The Shutdown was later returned on 18:22 Hrs of 01.02.2021. Such delay and extension of S/D without prior approval caused serious problems in reliable operation of grid.

Deliberation of the sub-Committee:

Director(O&P), NERPC informed the forum that P&ED Mizoram has conveyed that shutdown of 132kV Silchar-Melriat D/C may be approved on 20.02.2021 & 21.02.2021 (07:00hrs to 15:00hrs each day). The forum took strong note of the delay in return of the shutdown of 132kV Silchar-Melriat D/C by NERTS and advised NERTS to desist from such delays in the future.

The Sub-Committee noted as above.

Action: NERTS.

C.12 Palatana Units MVAR absorption/injection:

On 03.02.2021, Tap position of UAT-1 was increased from 3 to 4 on 03.02.2021 after the issue of high MVAR injection was informed by NERLDC. The same could not be done for UAT-2 as diverter switch for the same is not operational (as informed by OTPC via email dated 01.02.2021). Presently, GTG-1, STG-1 and STG-2 are seen to be absorbing MVAR in high voltage scenarios. However, GTG-2 is seen to be injecting MVAR most of the time (even in high voltage scenarios). A plot of the same is attached as in **Annexure-C.11**. Appropriate setting change of UAT-2 is to be done expeditiously. Also, till the rectification of UAT-2 diverter switch, OTPC is requested to take necessary corrective action so that net MVAR injection by OTPC plant becomes zero when bus voltage at Palatana is 400 kV.

Deliberation of the sub-Committee:

During the shutdown of the units of Palatana in the upcoming months, the issue of diverter switch of UAT-2 will be rectified. NERLDC requested that till the time UAT-2 is rectified, net MVAR injection by the Palatana plant above 400 kV should be maintained zero when bus voltage at Palatana is 400 kV. ED, NERLDC requested OTPC to intimate the OEM so that absorption by the units will be according to the capability curve.

The Sub-Committee noted as above.

Action: OTPC.

C.13 Intimation regarding reason for change of declared energy/Emergency shutdown of hydro generators:

In the scheduling process, hydro generation are normally providing daily energy and peak MW; and the same can be revised by the generator as per stipulated timeline. During the day, if there is any change in energy punched in WBES, reason for the same along with change in energy punched in WBES, reason of the same along with change in MW/unit commitment (if any) need to be intimated to NERLDC.

Moreover, if there is any emergency unit outage/non-availability due to the same reason for a particular period (even without affecting daily energy) same needs to be intimated to NERLDC for incorporation in schedule appropriately.

Deliberation of the sub-Committee:

After detailed deliberation the forum agreed to the following:

- a. Reasons for revision in energy punched in WBES for hydro generators to be intimated to NERLDC
- b. Unit outage/non-availability to be communicated by ISGS to NERLDC

- c. Permission to be taken from NERLDC by the concerned generators regarding any kind of emergency shutdowns and reasons for any change in DC is to be clearly mentioned

The Sub-Committee noted as above.

Action: all CSGS.

C.14 Planned continuous shutdown of 125MVAR Bus Reactor at Bongaigaon:

The P/S/D of 125 MVAR Bus Reactor at Bongaigaon was approved from 16.01.2021 to 25.01.2021. However, the S/D was not returned by NERTS as of 10.02.2021. Due to the outage of the Bus Reactor, high voltage is observed in the nearby nodes of Bongaigaon.

Deliberation of the sub-Committee:

CGM(AM), NERTS informed the forum that after the reactor was opened, OEM suggested to change the bushing and thereafter there was a rise in dew point. Till the desired levels of insulation are obtained, he requested for an extension of the shutdown of the bus reactor. After detailed deliberation the forum decided that approval for shutdown of 125MVAR Bus Reactor shall be granted upto 18th February,2020 and accordingly availability shall be calculated.

The Sub-Committee noted as above.

Action: NERPC.

C.15 Khandong Bus Coupler and Bus shutdown:

Due to the broken tie-rod of GCB of Khandong Unit-I, the Bus Coupler Breaker is currently being used as a GCB(backup). All elements except Unit-I have been shifted to Bus-B which has decreased the reliability of Khandong S/S. NEEPCO may intimate the timeline for reverting back to the original configuration.

Deliberation of the sub-Committee:

DGM, NEEPCO informed that due to malfunctioning in tie rod of the Generator-I CB the three poles were not closing simultaneously. After the problem occurred twice the protection of generator was switched to the Bus Coupler Breaker and all the other feeders were shifted to Bus-B (while Gen-I was kept on Bus-A). Further, he contended that since there is no connectivity to Kopili at present it is not essential to keep both bus in service. He confirmed that by Mar'21 the original configuration will be reverted back.

The Sub-Committee noted as above.

Action: NEEPCO.

C.16 Requirement of approval for keeping Auto-reclosure in Off mode during OPGW works:

It is observed that NERTS, POWERGRID has been seeking approval from NERLDC for keeping A/R in off condition during OPGW works which should be ideally obtained from OCC forum. But in case of any exigencies, the same may be allowed by obtaining real time code from NERLDC, which shall be provided based on real time grid conditions.

Deliberation of the sub-Committee:

After detailed deliberation the forum decided that for long duration planned activities (i.r.o. Auto-reclosure turn off activities) the shutdown will be planned and approved in OCC. For short duration subsequent to OCC meeting, the forum asked NERLDC to decide based on grid condition.

The Sub-Committee noted as above.

Action: all utilities.

C.17 Opening of One phase of Jumper at Tower No.2 of 132 kV PK Bari-PK bari line on 04th Feb'21

Joints were observed in all three phases of jumpers as per pictures shared by SLDC, Tripura. It is generally advised to avoid joints, as joints are the weak points and leads to formation of hotspots in due course of time. In view of importance of the mentioned line, proper checking and tightening of jumpers needs to be expedited at the earliest for safe & reliable operation of NER grid.

Deliberation of the sub-Committee:

The forum requested TSECL to confirm if joints are present throughout the line or only at Tower No.2.

The Sub-Committee noted as above.

Action: TSECL.

C.18 Sparing of 16MVA 33/11kV Transformer at Nirjuli

Sparing of 1X16 MVA, 33/11 KV Power Transformer of PGCIL Nirjuli for Dokunpani Substation of DoP, A.P. The 10 MVA Dokunpani is running under load restriction due to over loading. It is learnt that 1X16 MVA transformer of PGCIL Nirjuli is decommissioned and flying unused since January 2016. It is to request the forum to approve for the said transformer to be used for Dokunpani Substation of DoP, A.P with consent from PGCIL.

Deliberation of the sub-Committee:

AE, SLDC, DoP Ar. Pradesh stated that the 16MVA 33/11kV ICT is required to be shifted to Dokunpani, so that overloading conditions can be averted and demand can be properly met. After detailed deliberations it was decided that the 16MVA 33/11kV Transformer at Nirjuli will be declared as regional spare and the forum decided to refer the matter to the next NERPCTP. AE, SLDC, DoP Ar. Pradesh requested 16MVA 33/11kV ICT for a year, the same was agreed by NERTS and stated that Ar. Pradesh will have to bear the Transportation and Commissioning cost themselves.

The Sub-Committee noted as above.

Action: NERPC/NERTS.

C.19 Availing of Palatana Merchant Power by beneficiaries:

Member Secretary, NERPC informed that in the 21st TCC/NERPC meeting all the states agreed to consider availing Merchant Power of Palatana as part of their firm share. In case some decided not to avail the same the other states would avail the corresponding share as per formula decided by MoP. He requested the beneficiaries to give their views.

CGM(Comml.), APDCL stated that the bilateral agreement of MTOA with OTPC is ending on 31st Mar'21. If the same is renewed and the merchant power is availed then Assam would be in surplus condition and would have to sell power in the market at discount to purchase cost. However, at present Assam is agreeable to take additional firm power from OTPC during peak time if the rate is competitive.

DoP, Nagaland and P&E Dept. Govt. of Mizoram have already confirmed to avail the above merchant power as per existing firm share.

The other states intimated that in one week time frame the decision would be conveyed.

The Sub-Committee noted as above.

Action: all state beneficiaries.

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 174 th OCCM	Status as informed in the 175 th OCCM
1	63MVAR L/R for 400kV Palatana-Silchar Ckt-I	OTPC	Put in service on 08-01-2021	To be dropped

2	132kV Jiribam – Rengpang	MSPCL	Charged upto Rengpang S/Sn on Jan'21	To be dropped.
3	132kV Rangia-Rowta	AEGCL	by Feb'21	By Mar'21
4	132kV Mariani – Mokokchung (out since April'2008)	AEGCL	Proposal put up for approval.	
5	FSC of 400kV Balipara – Bongaigaon-4(out since 02 nd Sep'20)	NERTS	Procurement involved. Tentatively by Mar'21	By Mar'22
6	132kV Roing-Pasighat (charged through ERS tower)	NERTS	Pile by Apr'21	by Apr'21
7	220kV Mariani-Mokokchung - I	NERTS	B/R bay used to charge the line. By 31 st March	B/R bay used to charge the line. By 31 st March'21

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 174 th OCC meeting	Status as informed in 175 th OCC meeting
1	LILO of 132kV P.K.Bari-Ambassa at P.K.Bari(ISTS)	TSECL	FTC on 29-01-2021	Completed. To be dropped.
2	400kV Palatana-Surjamaninagar D/C	NERTS	By Mar'21	By Mar'21
3	400kV Silchar – P.K.Bari D/C	NERTS	By Feb'21	By Feb'21
4	132kV Monarchak-Surjamaninagar	TSECL	3 tower RoW issue persisting. Stringing for 21km completed. By March'21.	By March'21.
5	PLCC for 132kV Loktak-Ningthoukong and 132kV Loktak-Rengpang	MSPCL	Included in R&U. By Mar'21	
6	Construction of 2 nd bay at Balipara for 220kV Balipara-Sonabil-2	AEGCL	LOA by Jan'21	LoA by Feb'21
7	Bay at 132kV Agia S/Sn for 132kV Agia-Nangalbibra-II	AEGCL	MePTCL clearance awaited to charge the line.	Bay ready at Agia and applied for charging by Assam. Meghalaya to apply for FTC as both the bays are owned by

				Meghalaya. MePTCL to co-ordinate for charging from both ends.
8	Upgradation of 132kV Lumshnong – Panchgram line	MePTCL	PSDF approval awaited.	PSDF approval awaited.
9	Diversion of 132kV Bawktlang-Sihmui	NERTS	By Mar'21	By Mar'21
10	PLCC for 132kV Karong-Kohima	MSPCL	To be updated	To be updated
11	400/220kV 500MVA ICT at Mariani	NERTS	Jan'21	completed
12	132kV Loktak-Ningthoukong-II	MSPCL	Mar'21	Mar'21
13	132kV Roing-Chapakhowa	NERTS	Tendering stage	Negotiation on-going.
14	132kV Rupai-Chapakhowa & Chapakhowa S/Sn	POWERGRID	Dec'21	Dec'21
15	Re-conductoring 220kV BTPS-Salakati D/C	NERTS	Tendering stage	Bid to be opened by Feb'21

The Sub-Committee noted as above.

Action: all utilities as above.

D.3 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 174th OCCM Sr.Manager, NEEPCO informed that shutdown programme for the above works has been planned in Feb'21.

Deliberation of the sub-Committee:

DGM, NEEPCO informed that the works have been completed.

The Sub-Committee noted as above.

D.4 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 Tuirial	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	OTPCL- 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

Deliberation of the sub-Committee:

Region	Station	No. of generators	Schedule	Duration (days)	Remarks
NER	NEEPCO Ranganadi	3	26th Dec'20 to 30th Dec'20	5	Completed
NER	NEEPCO Tuirial	2	Tentatively during Jun-Jul 2021	4	In high hydro
NER	NEEPCO-Monarchak	2	07 th Apr'21 to 13 th Apr'21	8	-
NER	NEEPCO-Kopili	1	Under long shutdown	2	-
NER	NEEPCO-Khandong	2	1st Dec'20 to 4 th Dec'20	4	Completed
NER	NEEPCO- Pare	2	21st Dec'20 to 24 th Dec'20	4	Completed
NER	OTPCL-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.5 Status of commissioning of 400 kV Silchar – PK Bari D/C and 400 kV Palatana – Surajamaninagar(ISTS) D/C.**

A voltage change of about 40-45 kV during charging/tripping of any of the bus reactors at PK Bari & Surajmaninagar has been observed during simulation studies due to non-availability of 400 kV Silchar – PK Bari D/C and 400 kV Palatana –

Surajamaninagar(ISTS) D/C resulting in compromised security and reliability of the Grid. Hence, First Time Charging of Bus Reactors at PK Bari & Surajmaninagar could not be accorded.

NERTS is requested to expedite the commissioning of the mentioned projects and also share the latest update.

Deliberation of the sub-Committee:

The forum noted the commissioning status of the following:

- 400kV Silchar-PKBari : Feb'21
- 400kV Palatana-Surjamaninagar: Mar'21

The Sub-Committee noted as above.

Action: NERTS

D.6 Status of commissioning of 132kV AGTCCPP-PKBari D/C:

It has been observed that after commissioning of 132 kV PK Bari (ISTS)-Ambassa (TSECL) and 132 kV PK Bari(ISTS)-PK Bari(TSECL) line, overloading of 132 kV PK Bari-PK Bari line was observed w.e.f 01st Feb'21.

Commissioning of 132 kV AGTCCPP-PK Bari D/C will reduce the loading of 132 kV PK Bari-PK Bari line by about 15-20 MW. Sterlite Power is requested to share the latest status of commissioning of 132 kV AGTCCPP-PK Bari D/C and expedite the same.

Deliberation of the sub-Committee:

The forum noted the commissioning will be completed by Feb'21.

The Sub-Committee noted as above.

Action: M/s STERLITE

D.7 Long outage of Mariani-1 bay at Mokokchung S/s:

220kV Mariani-I bay at Mokokchung S/S is under outage since 21st Nov'19. Temporary arrangement of charging 220 kV New Mariani – Mokokchung 1 line by using 31.5 MVAR Bus Reactor bay at Mokokchung S/S was made and this temporary arrangement is still in service although validity of RIO permission has expired on 11.07.2020.

It is requested to kindly intimate plan of action for restoration of original configuration and its tentative schedule.

Deliberation of the sub-Committee:

CGM(AM), NERTS stated that RIO extension has been granted till 15th Apr'21, however the works will be completed by Mar'21.

The Sub-Committee noted as above.

Action: NERTS

Metering Agenda:

D.8 Faulty SEM replacement and SEM installation at new locations:

100 SEMs and 20 DCDs had been procured. List for replacement of faulty SEMs and location for new SEM installation had been submitted by NERLDC vide earlier OCCMs. All locations as per the list could not be considered due to the requirement of SEMs for the Sterlite & KMTL on-going projects and hence some priority basis locations were decided, and work is under progress.

List for locations for distribution of DCD was also submitted vide earlier OCCMs and most of them had already been distributed.

In MoM of 40th CCM, NERTS provided the status of completion of SEM replacement/installation and DCD distribution. List attached at **Annexure-D.9**

The Sub-Committee noted as above.

Action: NERTS

D.9 SEMs to be procured for STERLITE and KMTL on-going projects:

It was decided that additional 50 nos. of SEMs needed to be procured before completion of Sterlite & KMTL projects. However, that couldn't be done and SEMs required for those projects handed over from earlier procured 100 SEMs on need basis.

NERTS placed quantity variation order for procurement of 50nos. of SEMs and 10 nos. of DCDs based on the decision of the Forum. In 40th CCM, NERTS intimated that this procurement is expected to be completed by Feb 2021.

NERTS is also requested to provide the details of SEM & DCD diverted to Sterlite & KMTL projects.

Deliberation of the sub-Committee:

NERTS informed that the procurement process has been initiated and the target LoA date is Mar'21.

The Sub-Committee noted as above.

Action: NERTS

D.10 Procurement of SEM/DCD laptop for future requirements:

In 170th OCCM NERLDC presented the estimation 125 nos. SEMs and 15 nos. CMRIs shall be required for future projects and maintaining spare. List of SEMs and CMRIs was presented by NERLDC. The forum also decided that procurement will be done on single tender basis from L&T to synchronize with the existing metering system

Deliberation of the sub-Committee:

NERTS informed that the procurement process has been initiated and the target LoA date is Mar'21.

The Sub-Committee noted as above.

Action: NERTS

D.11 SEM time drift:

Time drift more than 5mins observed in Biswanath Chariali Substation, SEM no. NP-9678-A, NP-8801-A, NP-7601-A (Pole-1), NP-5798-A (Pole-2) and other meters also having time drift. Requested to take necessary action as these SEMs are very important for accounting of Inter-regional exchanges.

The Sub-Committee noted as above.

Action: NERTS

D.12 Collection of SEM data:

Budhjungnagar(TSECL) end of 132kv Budhjungnagar (TSECL)-SM Nagar(Sterlite) line, SM Nagar(TSECL) end of 132kv SM Nagar(TSECL)-SM Nagar(Sterlite), PK Bari(TSECL) end of 132kv PK Bari(TSECL)-PK Bari(Sterlite) line, Ambassa (TSECL) end of 132kv Ambassa(TSECL)-PK Bari(Sterlite) line Data of the above mentioned newly charged lines not received from TSECL (SLDC, Agartala).

As per regulations SLDC, Agartala should take necessary action for sending the data to NERLDC. However, due to non-availability of DCDs in most of the Substations of Tripura SEM data is being sent to NERLDC by NERTS. Forum may find out suitable solutions for sending SEM data to NERLDC of the above-mentioned lines.

Deliberation of the sub-Committee:

The forum noted that due to the existing shortage of DCDs, the same cannot be provided to Tripura for some time for new locations. This creates difficulty in getting SEM data from Bodhjangnagar, Ambasa, PK Bari and SM Nagar.

The Matter was discussed and it was decided that during the interim period Powergrid NERTS will provide readings from PK Bari and SM Nagar of Tripura and Sterlite will provide readings from Bodhjangnagar and Ambassa of Tripura."

The Sub-Committee noted as above.

Action: NERTS

Date & Venue of next OCC meeting:

It is proposed to hold the 176th OCC meeting of NERPC on second week of March, 2021 at Tawang. However, exact date and venue will be intimated in due course.

Annexure-I**List of Participants in the 175th OCC Meeting held on 18.02.2021**

SN	Name & Designation	Organization	Contact No.
1	Sh. Purik Buchi, AE (E)	Ar. Pradesh	-
2	Sh. Deepak Das, CGM(Coml)	Assam	
3	Sh. Mriganka Bhuyan, AGM (SLDC), AEGCL	Assam	09101302916
4	Sh. Rupanka Kishore Goswami, AGM (SLDC)	Assam	09613146565
5	Sh. Indrajit Tahbildar, AGM (Com.), APDCL	Assam	08761049486
	No Representative	Manipur	-
6	Sh. T.Gidon, EE, SLDC	Meghalaya	-
7	Sh. K.W. Sohlang, EE (MoD)	Meghalaya	-
	No Representative	Mizoram	
8	Sh. Rokobeito Iralu, SDO	Nagaland	09436832020
9	Sh. Asangba Tikhir, EE (Trans & SLDC)	Nagaland	-
10	Sh. David Tungoe, SO	Nagaland	08787776157
11	Sh. Keviwelie Mepfuo, JE (SLDC)	Nagaland	09862849727
	No Representative	Tripura	
12	Sh. Joypal Roy, DGM(E/M)	NEEPCO	08837200069
13	Sh. V. Suresh, ED	NERLDC	09449599156
14	Sh. Nabarun Roy, CGM	NERLDC	09869080265
15	Sh. R. Sutradhar, CGM (SO-I)	NERLDC	09436302714
16	Sh. Palash Jyoti Borah, DM (SO-II)	NERLDC	09366435631
17	Sh. Adarsh Jaiswal, Engineer	NERLDC	08876735354
18	Sh. S. Das, Engineer (SO-I)	NERLDC	08014979527
19	Sh. U. Kataki, CGM (AM)	PGCIL	09435505418
20	Sh. P. Nandi, Manager (RTAMC)	PGCIL	-
21	Sh. Rodik Hmar, Sr. Manager (E)	NHPC	-
22	Sh. Arup Ch, Sarmah, GM (Comml.)	OTPC	09871839502
23	Sh. Narendra Kumar Gupta, Sr. Manager (O)	OTPC	09774233426
24	Sh. D.P. Batra, GM (O)	NTPC	08275045446

25	Sh. Susovan Das, AGM (EEMG)	NTPC	07637032174
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 गिड प्रदर्शन

NER GRID PERFORMANCE

For the month January 2021

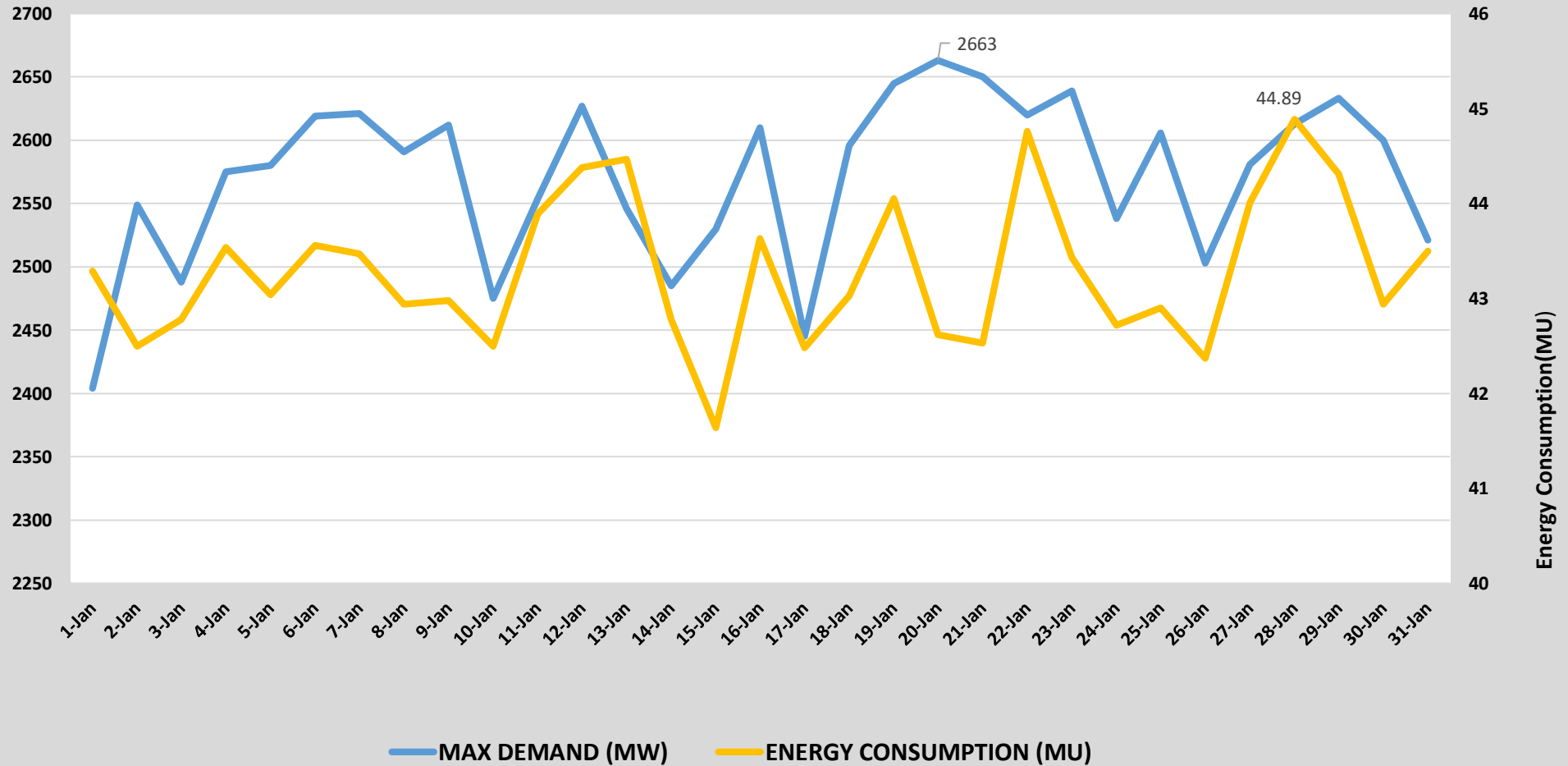
North Eastern Regional Load Despatch Centre

POSOCO, Shillong

Maximum MW and MU in NER: Jan 2021



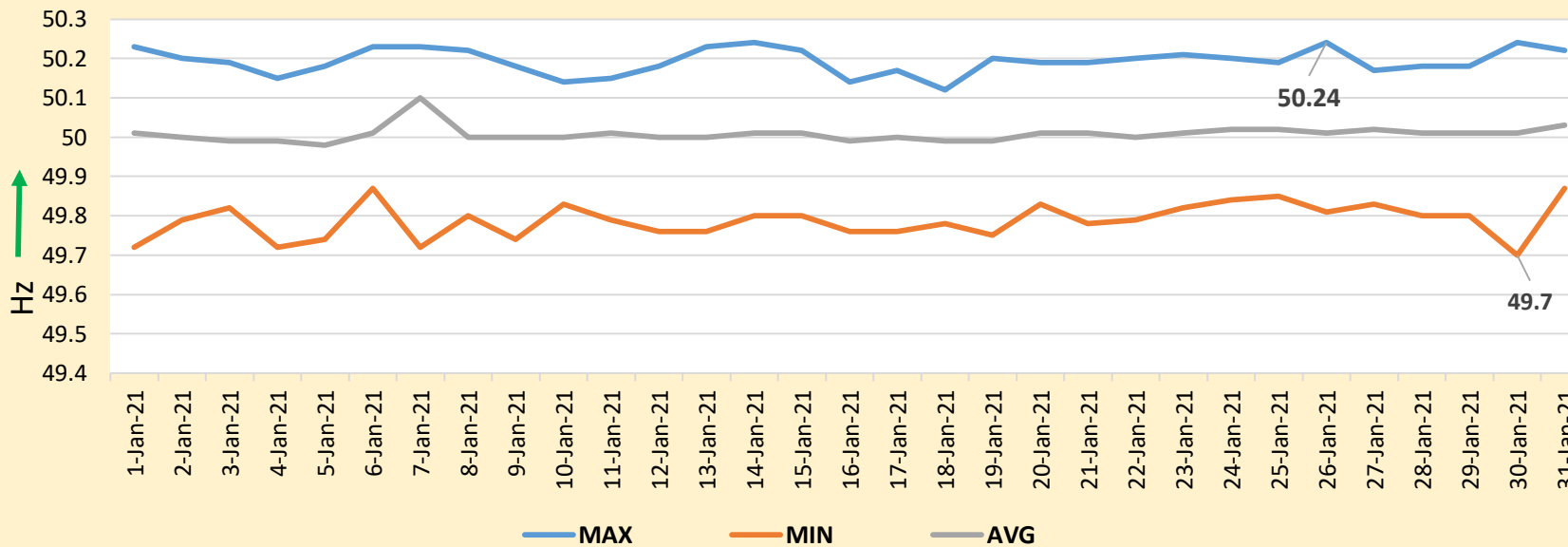
Maximum Demand (MW) and Energy Consumption (MU)



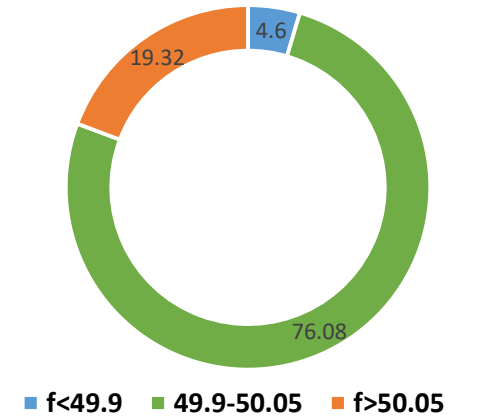
Frequency Profile



FREQUENCY PROFILE JAN 2021

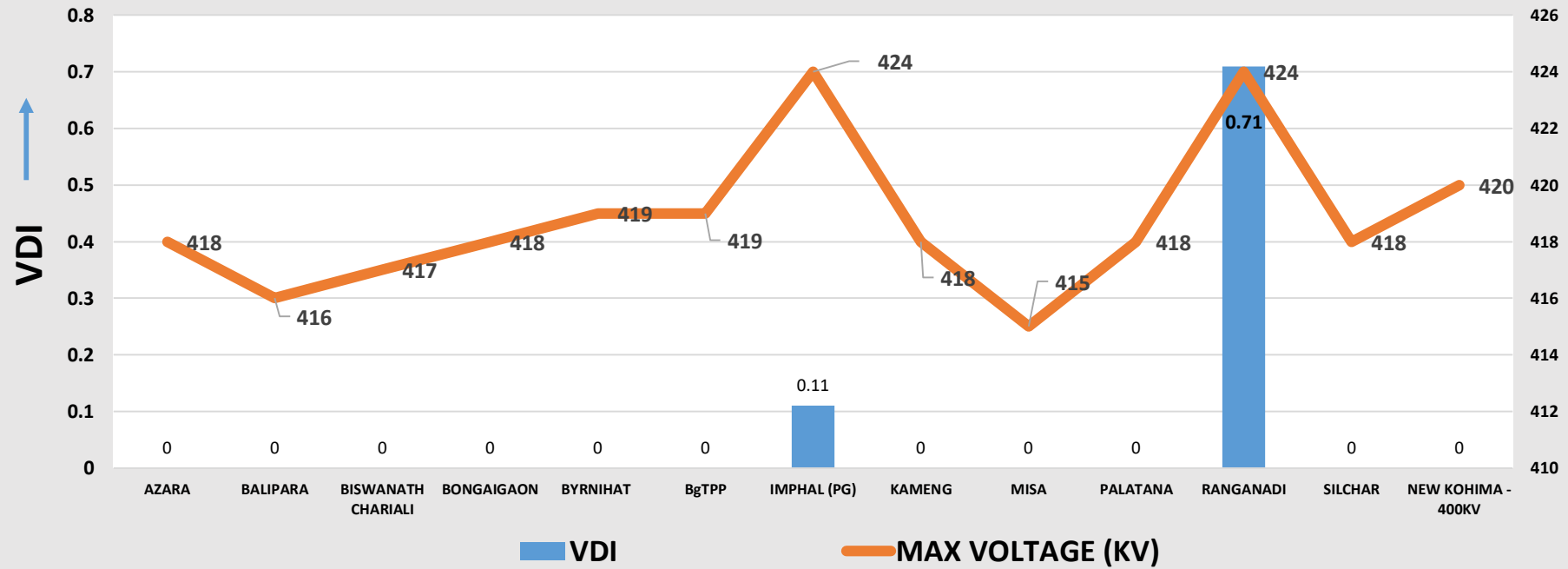


FREQ PROFILE FOR JAN'21



VDI (400 KV) FOR JAN 2021

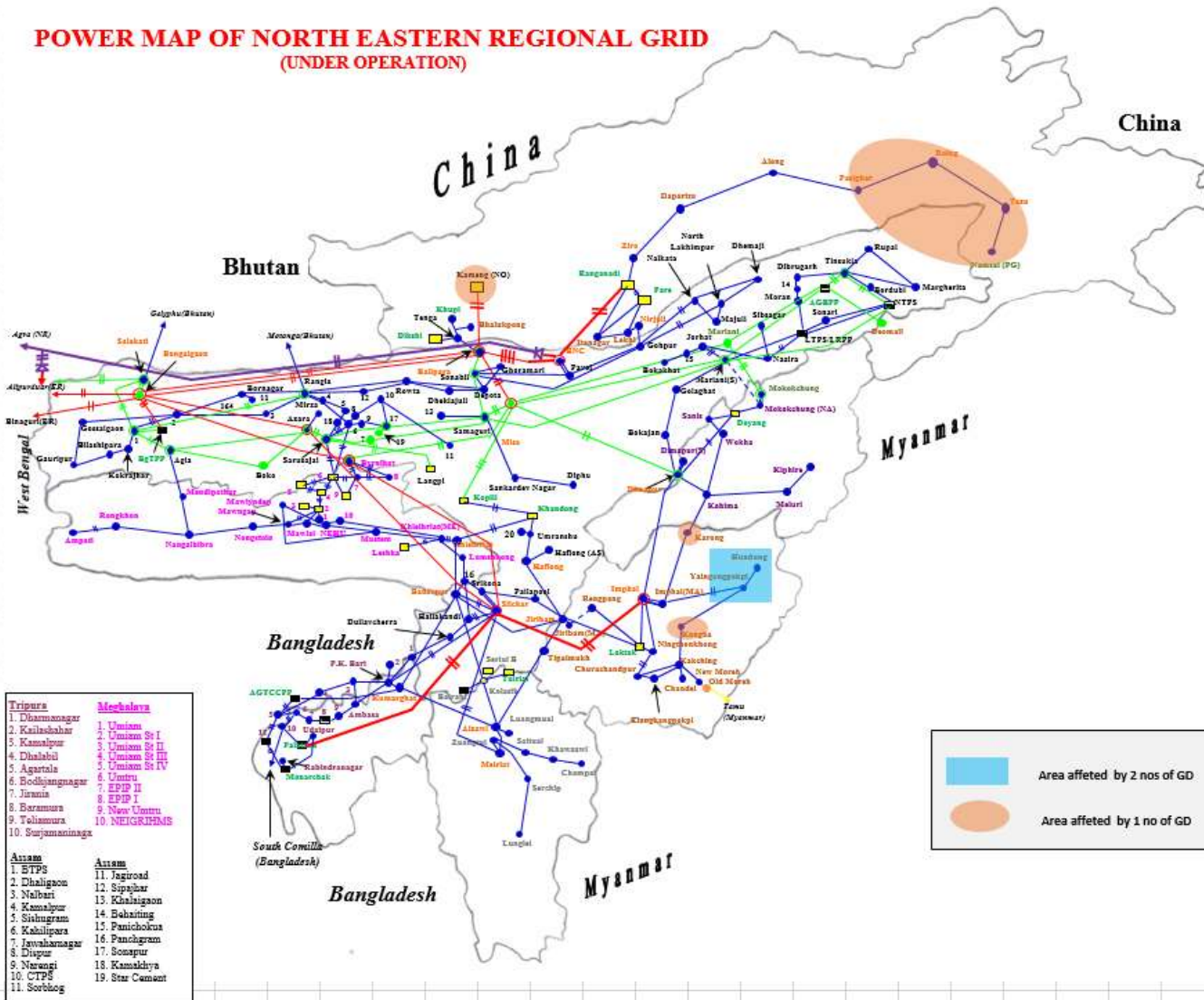
No. of 400 kV lines kept open for over voltage : 0



Grid Disturbance during Jan 2021



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



No. of GD	6
No. of GI	3

132 kV Imphal(MA) - Karong line and 132 kV Karong-Kohima line	caused GD 1 times
400 kV Balipara - Kameng line I & II	caused GD 1 times
132 kV Along - Pasighat line	caused GD 1 times
132 kV Yiangangpokpi -Kongba line	caused GD 1 times
132 kV Imphal(Yurembam)-Yiangangpokpi 1 & 2 lines	caused GD 2 times

Number of Days as per Current Hydro Generation

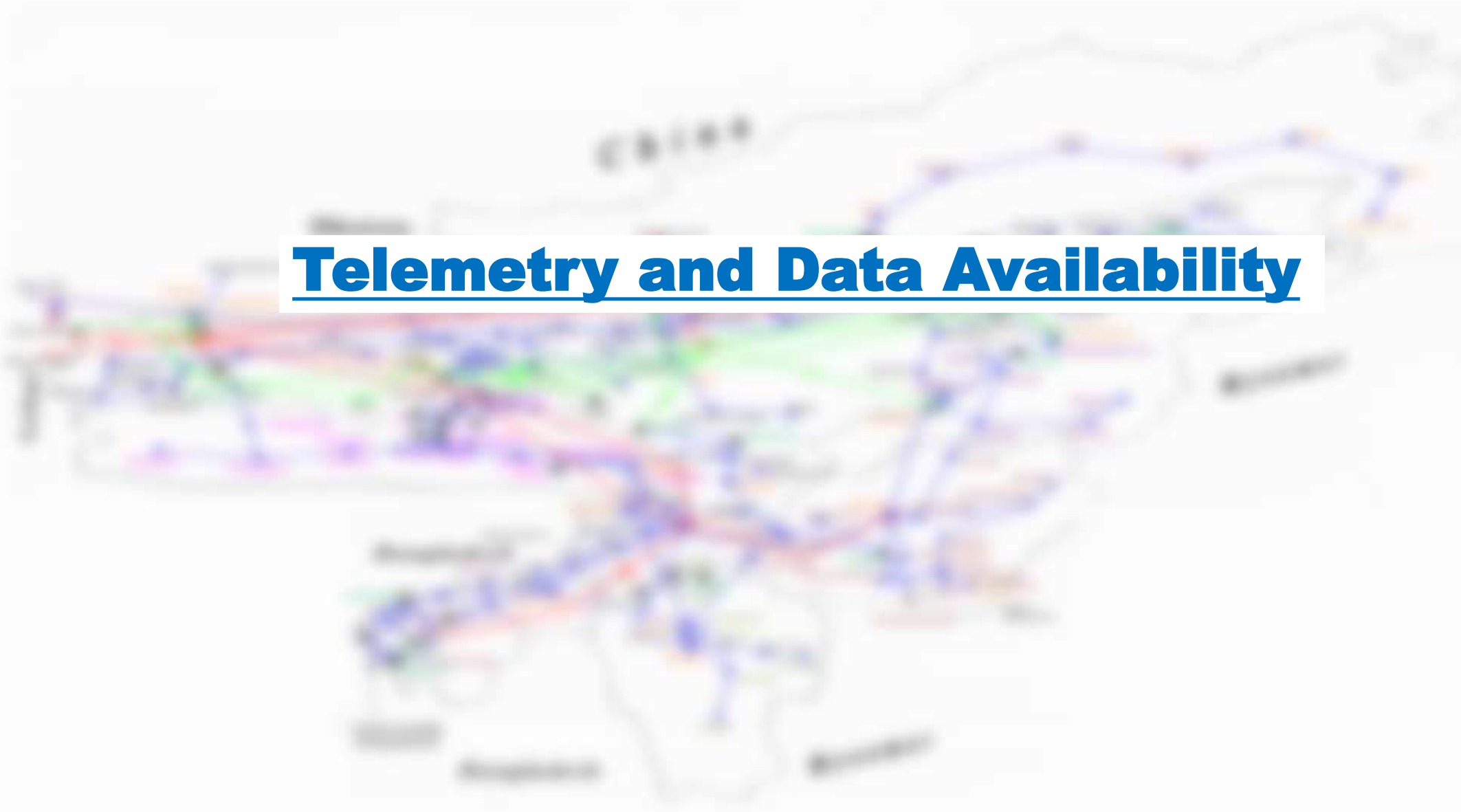


Plants	Reservoir Level in meters (as on 17/02/2021)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong + Kopili STG II	713.05	12	0.151	79
Kopili	-	-	-	
Doyang	321.25	28	0.1425	196
Loktak	767.47	58	0.987	59

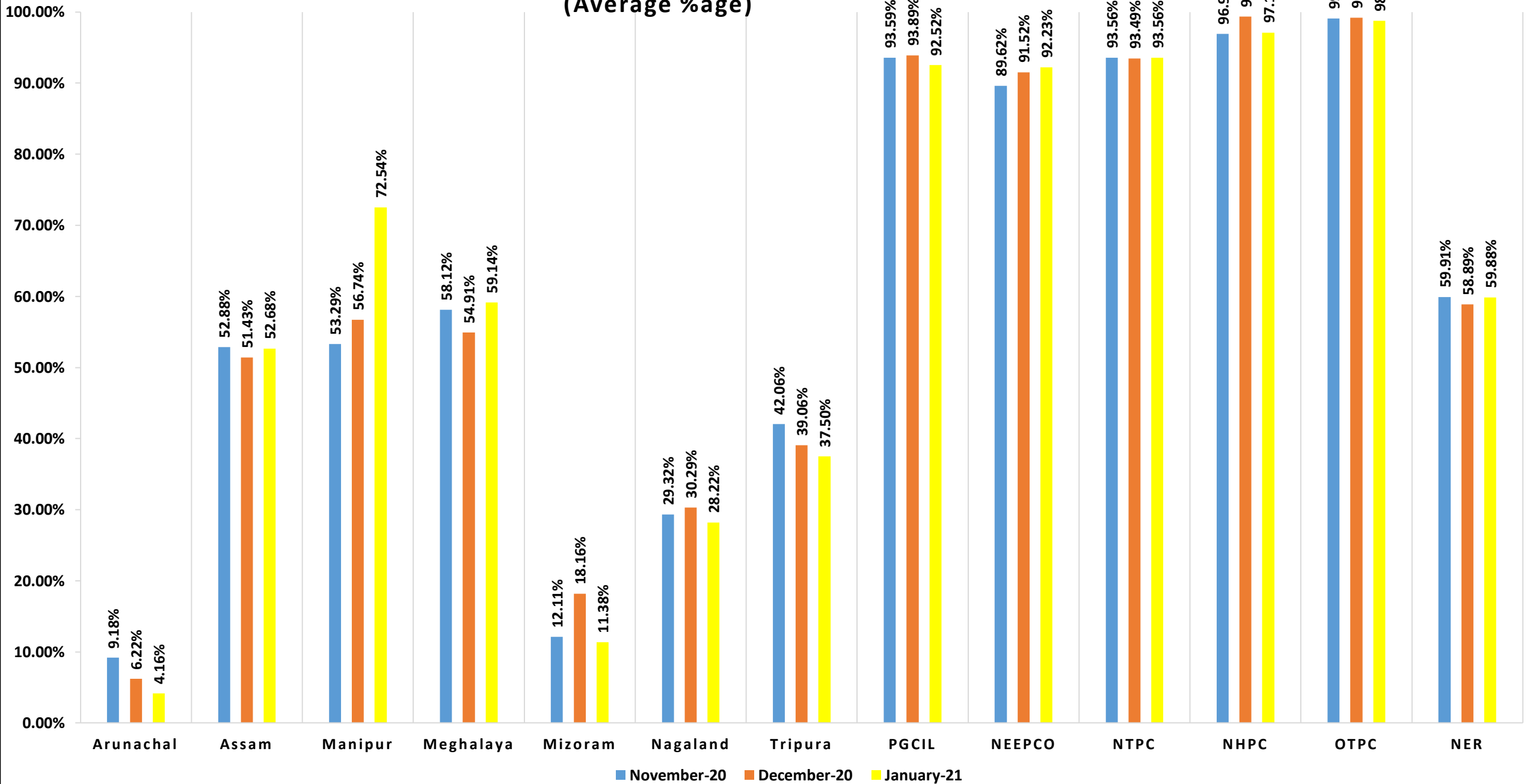
173rd OCC approved shutdown status

Availing Agency	Total Shutdown approved	Total shutdown availed	Shutdown deferred by NERLDC due to system constraint
PGCIL	90	51	11
NEEPCO	4	2	0
AP	3	3	0
Assam	54	33	6
Meghalaya	9	8	0
Nagaland	2	2	0
NHPC	1	0	0
ENICL	21	12	0

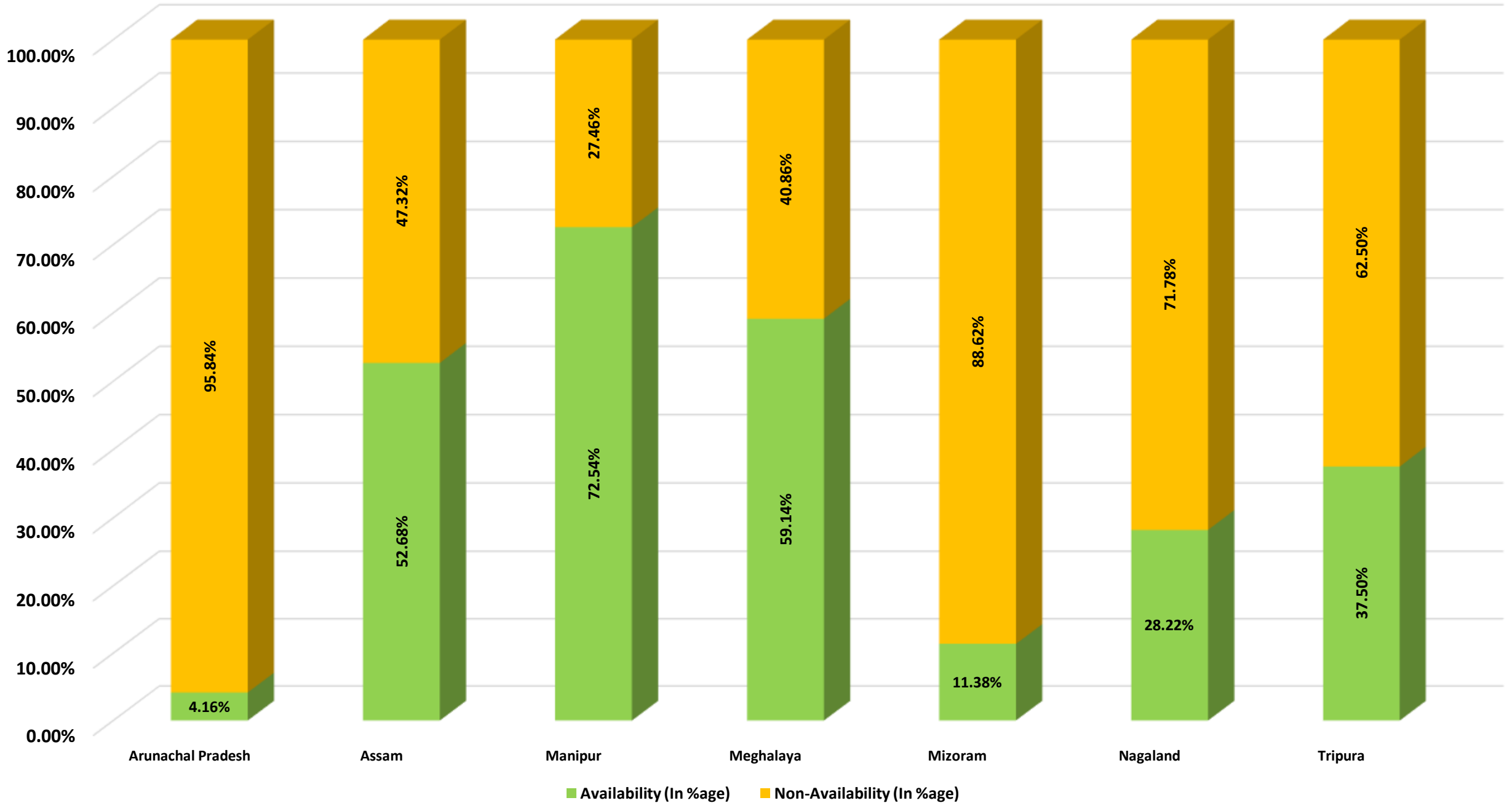
Telemetry and Data Availability



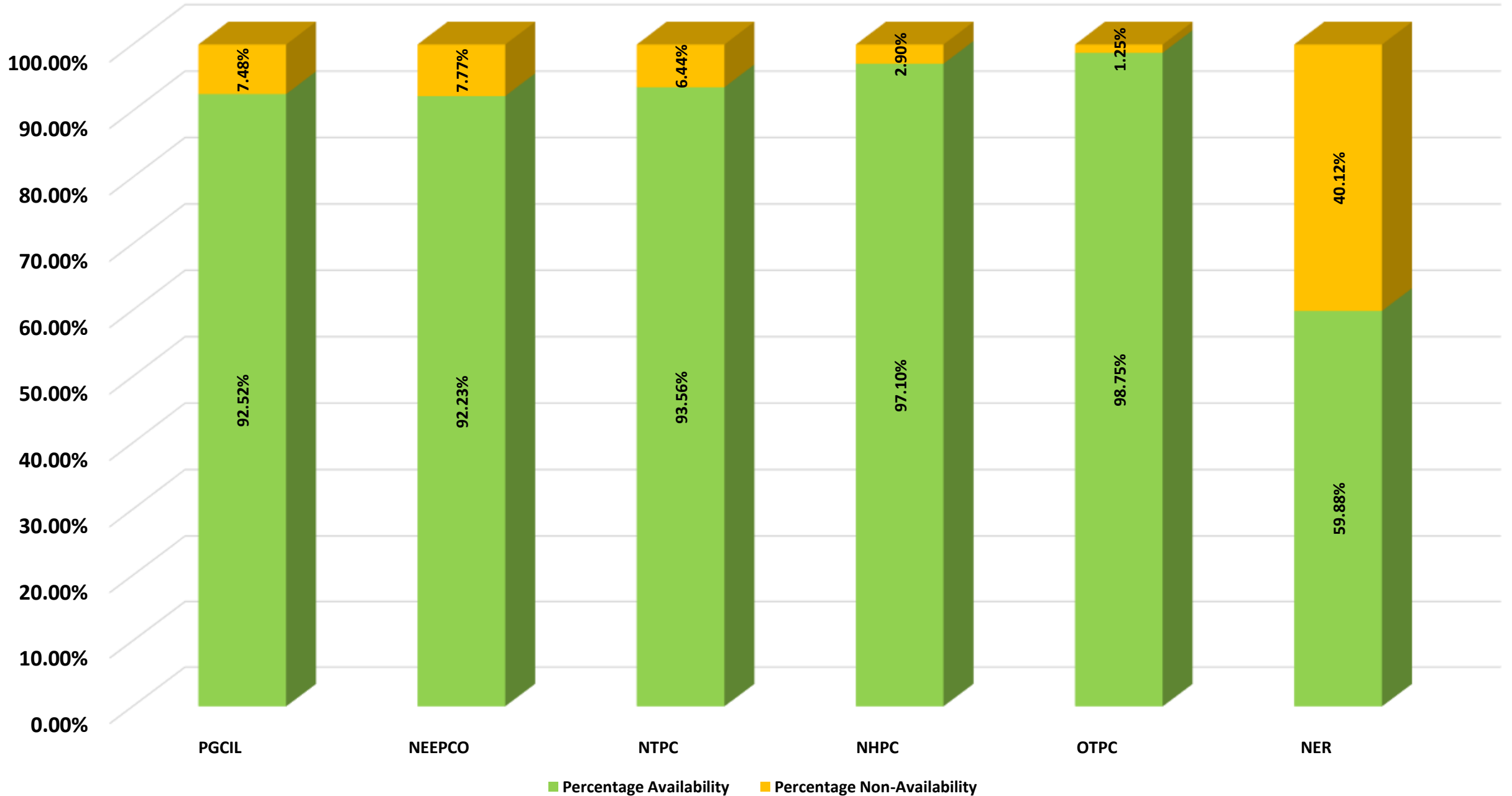
Comparison of Telemetry Availability Statistics (Average %age)



Telemetry Statistics for NER States (Average availability of data for the Month of Jan'21)



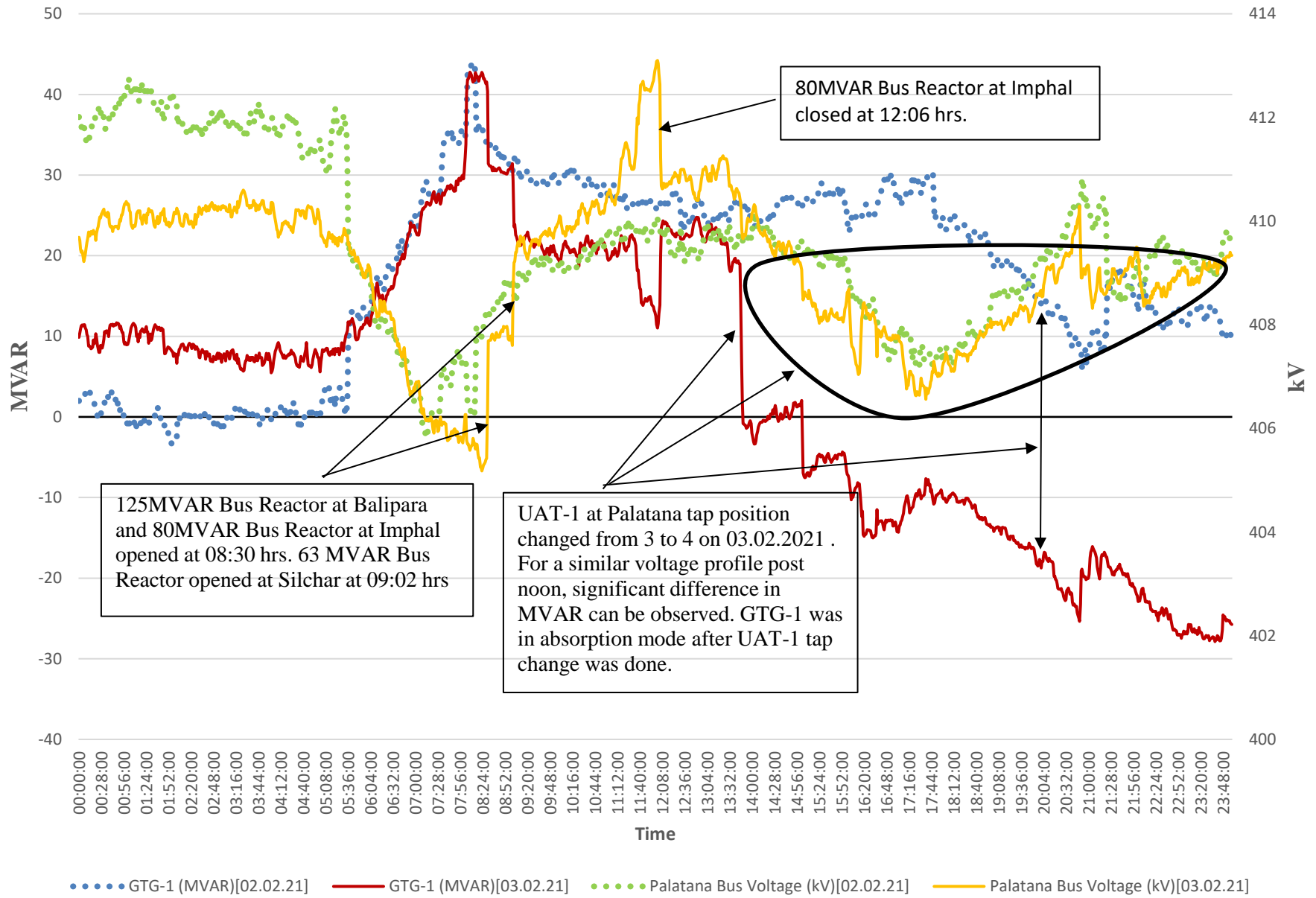
Telemetry Statistics for Central Sector of NER (Average availability of data for the Month of Jan'21)



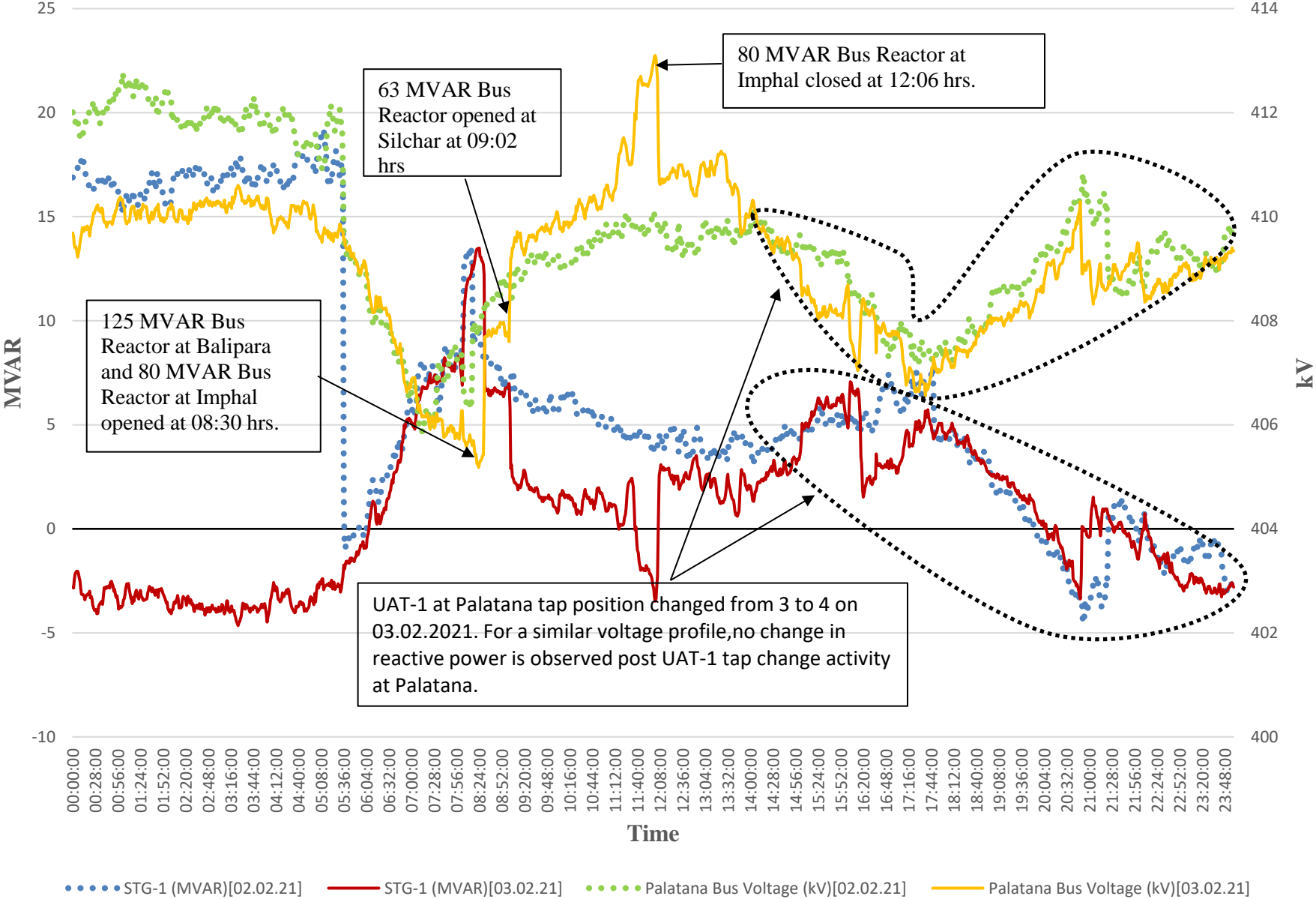


Thank You

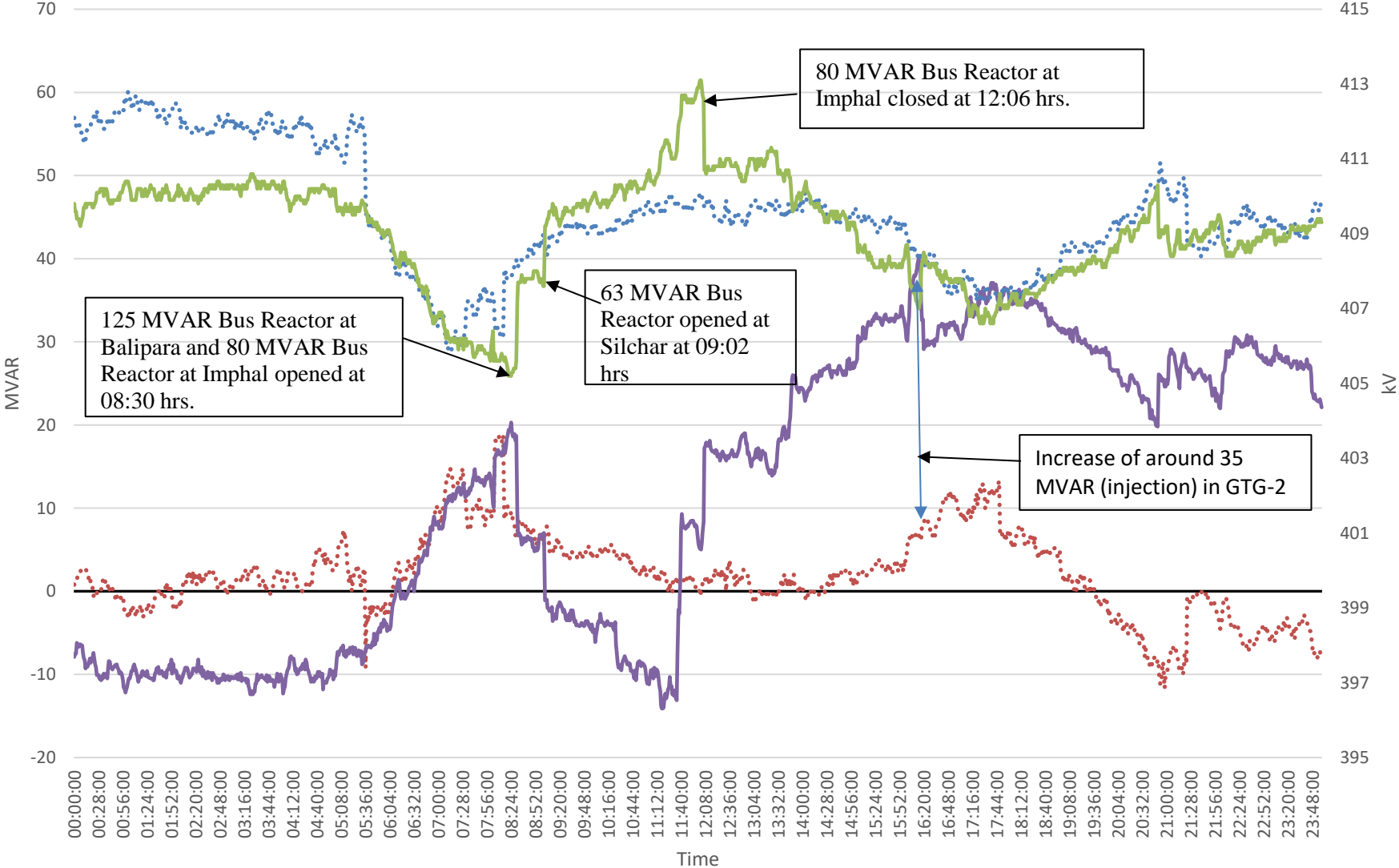
GTG-1 MVAR Vs Palatana Bus Voltage



STG-1 MVAR Vs Palatana Bus Voltage



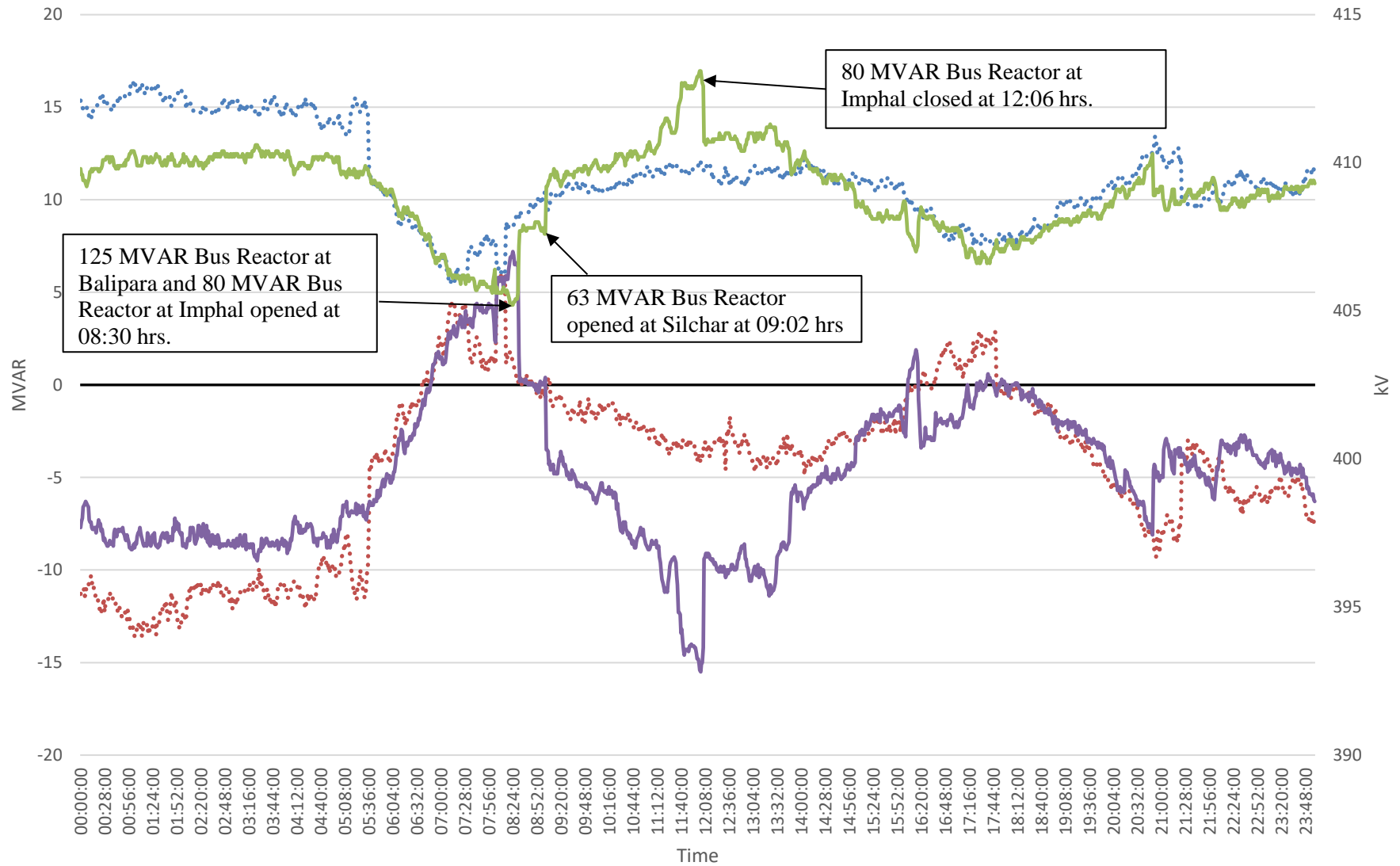
GTG-2 MVAR vs Palatana Bus Voltage



..... Palatana GTG-2 MVAR 02-02-2021
..... Palatana Bus Voltage (kV) 02-02-2021

———— Palatana GTG-2 MVAR 03-02-2021
———— Palatana Bus Voltage (kV) 03-02-2021

STG-2 MVAR vs Palatana Bus Voltage



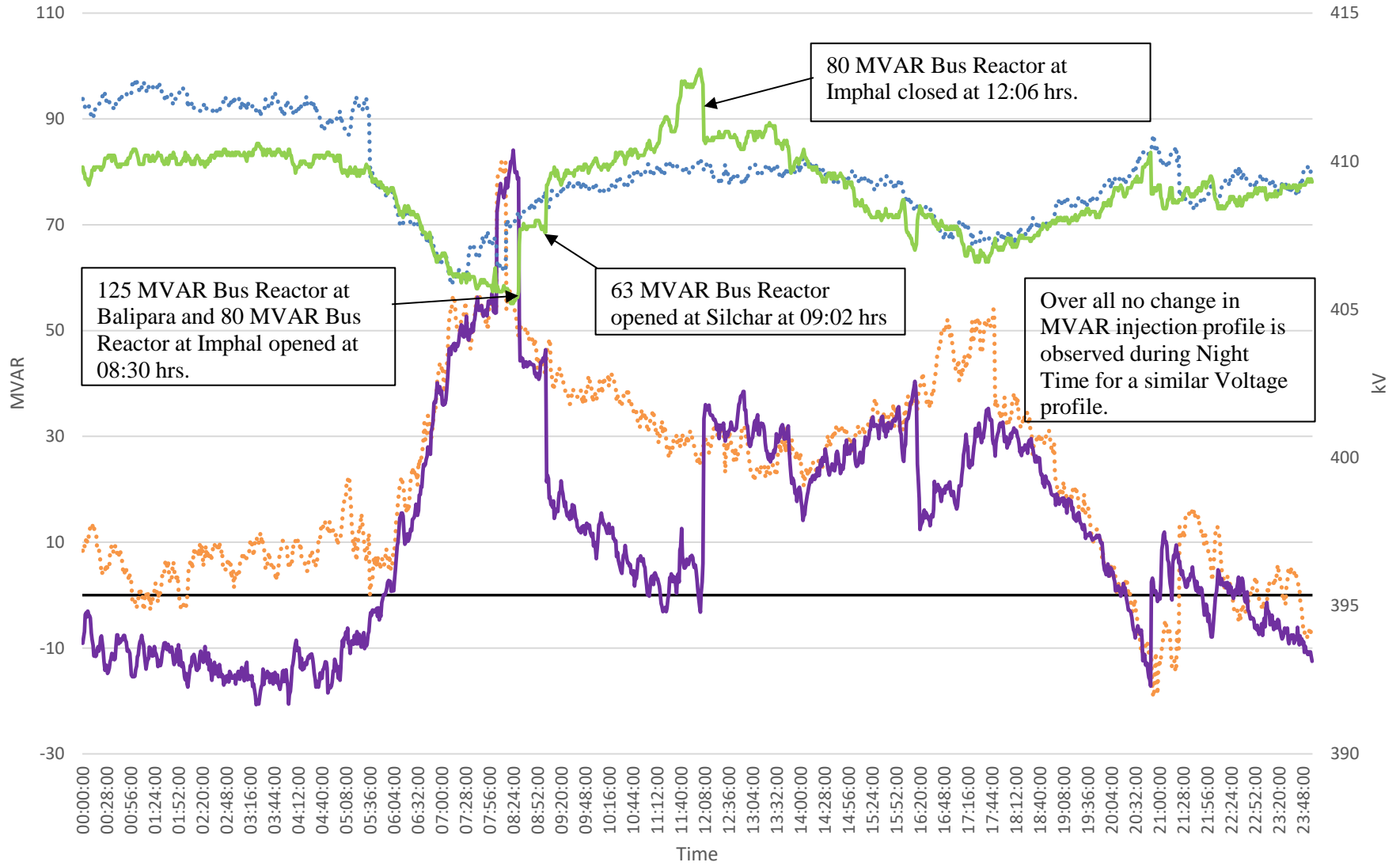
..... Palatana STG-2 MVAR 02-02-2021

..... Palatana Bus Voltage (kV) 02-02-2021

———— Palatana STG-2 MVAR 03-02-2021

———— Palatana Bus Voltage (kV) 03-02-2021

Palatana Total MVAR V/S Voltage



●●●● Palatana Total MVAR 02-02-2021
 — Palatana Total MVAR 03-02-2021
 ●●●● Palatana Bus Voltage (kV) 02-02-2021
 — Palatana Bus Voltage (kV) 03-02-2021

The status of SEM distribution list is attached herewith.

Sl. No.	SUBSTATION	Name of Substation responsible	Meter No.	Feeder Name	Meter Type	Remarks	Status
1	AZARA	Bongaigaon SS	NP-9456-A	AZARA END OF 400 KV BONGAIGAON	LNT	Approx 7 mins retard	Completed
2	AZARA	Bongaigaon SS	NP-9457-A	AZARA END OF 400 KV SILCHAR	LNT	Approx 6 mins retard	Completed
3	SARUSAJAI	Misa SS	NP-8489-A	132kv SARUSAJAI-UMTRU FEEDER	LNT	Approx 8 mins retard	
4	SARUSAJAI	Misa SS	NP-8492-A	S'SAJAI END OF 132kv UMTRU FDR-2	LNT	Defective meter	
5	DULLAVCHER-RA	Badarpur SS	NP-9438-A	DULLAVCHERRA END OF DHARMANAGAR FDR	LNT	Approx 6 mins retard	Completed
6	MISA	Misa SS	NP-8605-A	MISA END OF 220kv MARIANI(AS) FDR	ELSTER		
7	MISA	Misa SS	NP-8641-A	MISA END OF 220kv KOPILI FDR -1	ELSTER		The feeders are out of service. Shall be connected once the feeders come in service
8	MISA	Misa SS	NP-8603-A	MISA END OF 220kv KOPILI FDR -3	ELSTER		
9	MISA	Misa SS	NP-8636-A	MISA END OF 220kv KOPILI FDR -2	ELSTER		
10	HAFLONG	Haflong SS	NP-8656-A	HAFLONG(PG) END OF JIRIBAM FDR	ELSTER		Completed
11	MARIANI	Mariani SS	NP-8596-A	MARIANI(PG) END OF 220kv KATHALGURI FDR	ELSTER	Raw Data does not convert	
12	SILCHAR	Silchar SS	NP-8664-A	SILCHAR (PG) END OF 132kv SRIKONA (ASEB) FDR -1	ELSTER		Completed
13	SILCHAR	Silchar SS	NP-8665-A	SILCHAR (PG) END OF 132kv SRIKONA (ASEB) FDR-2	ELSTER		Completed
14	SILCHAR	Silchar SS	NP-8666-A	SILCHAR (PG) END OF 132kv HAILAKANDI-11 (D'CHERA) FDR	ELSTER		Completed
15	SILCHAR	Silchar SS	NP-8667-A	SILCHAR (PG) END OF 132kv HAILAKANDI-1(P'GRAM) FDR	ELSTER		Completed

16	SILCHAR	Silchar SS	NP-8563-A	SILCHAR END OF 132 KV PK'BARI-2	ELSTER		
17	KOHIMA	Dimnapur SS	NP-9703-A	KOHIMA END OF KARONG FDR	LNT	Erratic Reading	Completed
18	JIRIBAM	Jiribam SS	NP-8645-A	JIRIBAM(MAN) END OF JIRIBAM(PG)FDR	ELSTER	21 mins retard	Completed
19	JIRIBAM	Jiribam SS	NP-8623-A	JIRIBAM(PG) END OF BADARPUR FDR	ELSTER	12 mins retard	Completed
20	YUREMBAM	Imphal SS	NP-6951-A	YUREMBAM-KARONG FDR	LNT	Approx 10 mins advance	Completed
21	IMPHAL	Imphal SS	NP-8672-A	IMPHAL(PG) END OF LOKTAK-2 IMPHAL(PG)	LNT	Approx 9 mins retard	Completed
22	BGTPP	Bongaigaon SS	NP 9646-A	NTPC ICT-1 HV SIDE CHECK	LNT	Approx 16 mins retard	
23	LEKHI	Nirjuli SS	NP-9652-A	LEKHI END OF 132KV PARE FDR	LNT	Heavy Error	Completed

The status of DCD distribution list is attached herewith.

Sl.No.	Substation	State	Status
1	LEKHI	ARUNACHAL PRADESH	
2	AGIA	ASSAM	
3	AZARA	ASSAM	
4	BTPS	ASSAM	
5	SARUSAJAI	ASSAM	
6	TINSUKIA	ASSAM	
7	DULLAVCHERA	ASSAM	
8	KAHILIPARA	ASSAM	
9	YUREMBAM	MANIPUR	
10	UMTRU	MEGHALAYA	Completed
11	MENDIPATHAR	MEGHALAYA	Completed
12	BYRNIHAT	MEGHALAYA	
13	JIRIBAM	POWERGRID	Completed
14	DIMAPUR	POWERGRID	Completed
15	Agartala (79 Tilla)	TRIPURA	
16	Udaipur	TRIPURA	
17	Dharmanagar	TRIPURA	

NERTS intimated that the balance distribution shall be completed within Feb 2021.