



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

No.: No. NERPC/SE (O)/OCC/2025/ 2040 - 2082 .

September 08, 2025

To

As per list attached

Sub: 229वीं ऑपरेशन समन्वय उप-समिति (ओसीसी) बैठक का कार्यवृत्त / Minutes of 229th Operation Coordination Sub-Committee (OCC) Meeting

महोदय/महोदया,

कृपया 22 अगस्त 2025 को एनईआरएलडीसी कॉन्फ्रेंस हॉल, गुवाहाटी में आयोजित 229वीं ओसीसी बैठक के कार्यवृत्त को अपनी सूचना एवं आवश्यक कार्रवाई हेतु संलग्न पाएं। कार्यवृत्त NERPC की वेबसाइट: www.nerpc.gov.in पर भी उपलब्ध है।

कृपया कोई भी टिप्पणी जल्द से जल्द NERPC सचिवालय को सूचित करें।

Sir/Madam,

Please find enclosed herewith the minutes of the 229th OCC Meeting held at NERLDC Conference Hall, Guwahati on 22nd August 2025 for your kind information and necessary action. The minutes is also available on the website of NERPC: www.nerpc.gov.in.

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

भवदीय / Yours faithfully,

दिनांक 08/09/2025
निदेशक / Director

Encl: As above

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1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Managing Director, APGCL, Bijuli Bhawan, Guwahati – 781 001
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4. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001
5. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal – 795 001
6. Director (Transmission), MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
7. Director (Generation), MePGCL, Lumjingshai, Short Round Road, Shillong – 793 001
8. Director (Distribution), MePDCL, Lumjingshai, Short Round Road, Shillong – 793 001
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10. Director (Generation), TPGCL, Banamalipur, Agartala -799 001.
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13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
14. Chief Engineer (Commercial) -cum- CEI, DoP, Govt. of Arunachal Pradesh, Itanagar- 791111
15. Engineer-in-Chief, P&E Department, Govt. of Mizoram, Aizawl – 796 001
16. Engineer-in-Chief, Department of Power, Govt. of Nagaland, Kohima – 797 001
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26. Chief Engineer, NPC Division, Central Electricity Authority, New Delhi – 110066
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34. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
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36. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur – 797103
37. Head of SLDC, TSECL, Agartala – 799001
38. Chief Engineer (Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
39. DGM (O&M), OTPC, Badarghat Complex, Agartala, Tripura – 799014
40. Director, NETC, 2C, 3rdFloor, D21Corporate Park, DMRC Building Sector 21, Dwarka, Delhi-77
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42. Project Head, NERPSIP/PGCIL, Pub Suraj Nagar, Nutun Bazar, Kahelipara, Guwahati- 781019
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दिनेश 01/32
08/11/2025

निदेशक / Director



सत्यमेव जयते

**MINUTES
OF
229th OCC MEETING**

Time : 10:30 Hrs.

Date: 22nd August, 2025 (Friday)

Venue: NERLDC Conference Hall, Guwahati

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NORTH EASTERN REGIONAL POWER COMMITTEE

MINUTES OF 229TH OCC MEETING HELD ON 22.08.2025 (FRIDAY) AT 10:30 HRS

1. PART-A: CONFIRMATION OF MINUTES

1.1. Confirmation of Minutes of 228th Meeting of OCC Sub-Committee of NERPC

The minutes of 228th meeting of OCC Sub-committee held on 25.07.2025 at NERPC Conference Hall, Shillong were circulated vide letter No. NERPC/SE (O)/OCC/2025/ 1596-1638 dated 5th August, 2025.

No comments were received from constituents

Sub-committee confirmed the minutes of 228th OCCM

The list of participants is attached as annexure I

2. PART-B: ITEMS FOR DISCUSSION

AGENDA FROM NERPC

2.1. Outage planning

I. Generation Planning (ongoing and planned outages)

- a.** In 217th OCCM, NEEPCO informed that they would provide daily inflow data for storage-type Hydro PS. NHPC also agreed to provide inflow data as per the NER operational data format. Based on that data provided from NEEPCO and NHPC present per day MU and projected number of days of operation.

Plants	Reservoir Level in meters (as on 20/08/2025)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong STG II	722.90	177.62	0.55	323
Kopili	604.55	61.00	4.00	15
Doyang	319.00	22.00	1.62	14
Loktak	767.87	92.00	2.47	37

The outage of other generating stations may be approved considering the present water levels in reservoirs. CEA has approved the generation outage plan for FY 2025-26. All the utilities may take note of it and in case of any modification from the Approved Planned Outages, the same may be finalized in consultation with GM Division.

b. Outage Planning of Transmission elements

As per the Outage planning procedure of NER the planned outages approved in the OCC forum has to be reconfirmed by the availing utilities on 10:00hrs. of D-4 to 12:00 hrs. of D-3) to NERLDC in order to either avail the approved shutdown or cancel it.

If an outage is to be availed on say 10th of the month, the shutdown availing agency would reconfirm to NERLDC between 10 hrs. of 6th of the month to 1200 hrs. of 7th of the month. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC.

Utilities have submitted the shutdown proposals for the month of September 2025 for discussion in OCC shutdown discussion meeting.

Deliberation

NERPC informed that the proposed shutdowns for the month of September'25 were discussed in the monthly outage discussion meeting held on 20.08.2025. He further informed that the list of approved shutdowns is attached as **annexure 2.1**

2.2. Presentation by Central Power Research Institute (CPRI)

In 228th OCCM, MS NERPC had informed that CPRI (Central Power Research Institute) has expressed willingness to provide testing services to power utilities of NER States and urged the NER power utilities to avail the services of CPRI. Also, CPRI would be invited to the upcoming OCC meeting to present their proposal.

In this context, CPRI will give a presentation on the subject matter.

Deliberation

CPRI gave a presentation on the testing services available with them at various Laboratories so that NER power utilities can avail their testing services at different Voltage level. The presentation is attached as annexure 2.2. Member Secretary, NERPC urged the NER power utilities to avail the services provided by the CPRI in order to assess the healthiness of the power equipment.

AGENDA FROM NERLDC

2.3. Operational Performance and Grid discipline during July 2025:

NERLDC presented the Operational Performance and Grid Discipline Report for the month of July 2025, attached as annexure 2.3.

2.4. Status of 2nd Ckt of 132kV Loktak – Ningthoukhong

NERLDC informed that at 11:39 hrs on 08.08.2025, the 132 kV Loktak–Jiribam line tripped due to a landslide at location 82 from Jiribam. The 132 kV Jiribam–Rengpang line has already been under long outage since 17.11.2023. At present, the evacuation path for Loktak HPS generation is through the 132 kV Loktak–Imphal and 132 kV Loktak–Ningthoukhong lines.

Although an SPS has been implemented to back down Loktak generation to 70 MW in the event of an outage of the 132 kV Loktak–Imphal line, high loading (above 75 MW) on the 132 kV Loktak–Ningthoukhong line is still being observed. To prevent continuous overloading, Loktak generation is currently backed down to 95 MW.

To mitigate the high loading on the 132 kV Loktak–Ningthoukhong line and to avoid backing down Loktak generation during high inflows and elevated reservoir levels, the stringing of the second circuit of the 132 kV Loktak–Ningthoukhong line is of utmost importance.

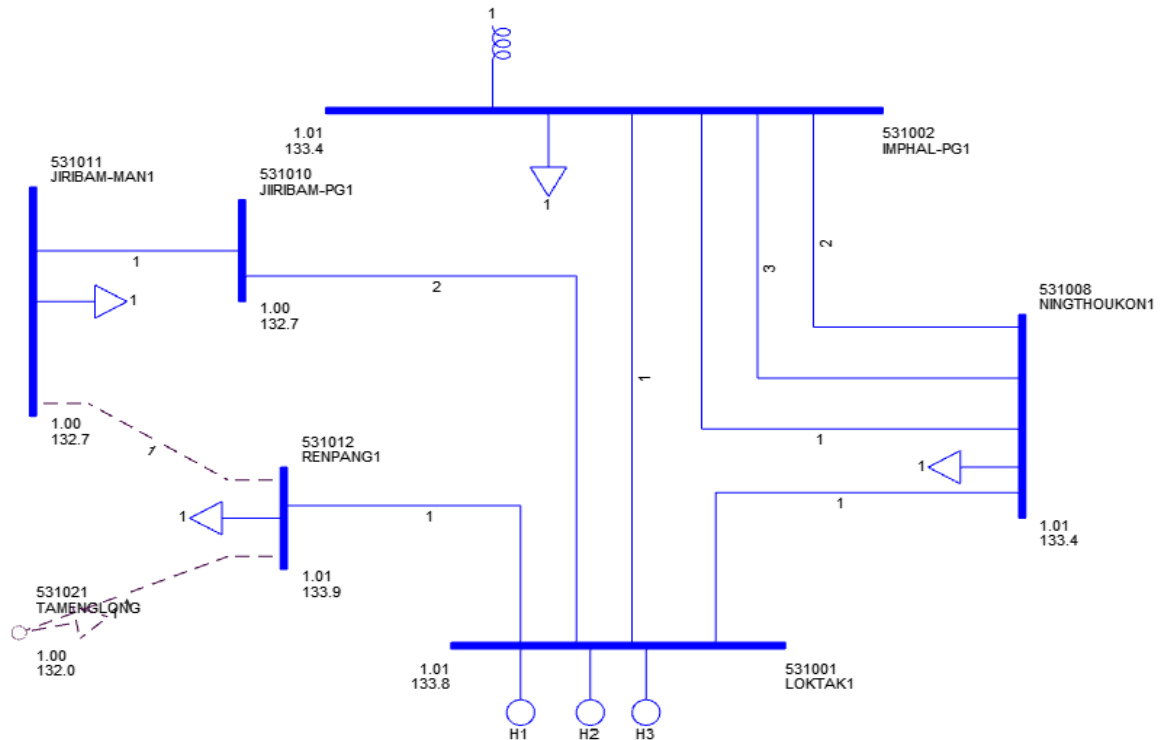
This matter was already raised in the 222nd OCCM and followed up in CMETS. As per the 41st CMETS meeting held on 27th March 2025, MSPCL informed that the second circuit of the 132 kV Loktak–Ningthoukhong line is being strung on separate towers and is expected to be completed by March 2026 (with one tower erection pending and stringing of nine spans remaining due to RoW issues).

In this regard, MSPCL is requested to provide an update on the latest status of the completion of the second circuit.

Deliberation

MSPCL informed that RoW issues pertaining to the line, has been resolved and the construction is underway. Tentative completion timeline is March'26.

Evacuation Path for Loktak HEP Generation



2.5. Restoration status of 132kV Loktak – Jiribam

The 132 kV Loktak–Jiribam line tripped at 11:39 hrs on 08.08.2025 due to a landslide at location No. 82 from Jiribam. At present, Loktak HPS generation is being evacuated through the 132 kV Loktak–Ningthoukhong and 132 kV Loktak–Imphal lines. High loading on the 132 kV Loktak–Ningthoukhong line is observed during full generation at Loktak, necessitating a reduction of Loktak generation to 95 MW. Revival of the 132 kV Loktak–Jiribam (PG) line is crucial to avoid spillage at Loktak HEP in the future and to ensure the secure and reliable operation of the Manipur power system.

In this regard, PGCIL is requested to provide an update on the restoration plan for the said line.

Deliberation

PGCIL informed that the tower at loc no. 82 had become vulnerable due to land cutting work by NHIDCL and rectification works are underway. He further informed that the line will tentatively be restored by 26th August'25.

2.6. Status of Bay upgradation of 132kV Loktak – Imphal and 132kV Loktak – Jiribam lines at Loktak:

The 132 kV S/C Loktak–Imphal and 132 kV S/C Loktak–Jiribam transmission lines have been recently reconductored; however, the associated line bays at the Loktak switchyard have not yet been upgraded, resulting in suboptimal utilization of line capacity.

The 132 kV S/C Loktak–Jiribam line has been under outage since 08.08.2025 due to a landslide at location no. 80 from the Jiribam end. The 132 kV Jiribam–Rengpang line is also under prolonged outage. On 11.08.2025 at 17:38 hrs, the 132 kV S/C Loktak–Ningthoukhong line tripped, leaving the 132 kV Loktak–Imphal line as the only available evacuation corridor for Loktak HEP generation. Due to the thermal limitation of the bay at the Loktak end of the Loktak–Imphal line, generation from Loktak HEP had to be backed down to 70 MW.

As per the information available with NERLDC, the conductor type of the bay at Loktak is Panther, having a thermal capacity of 82 MW (equivalent to 84 MVA at 0.975 p.f.) as per the Transmission Planning Criteria. Accordingly, a schedule of 82 MW was proposed for Loktak HEP. However, Loktak HEP, vide e-mail dated 12.08.2025, declined the proposed schedule, citing non-capability of the bay equipment.

In this regard, NHPC is requested to kindly expedite the bay upgradation works for both the 132 kV Loktak–Imphal and 132 kV Loktak–Jiribam lines, and to provide an update on the expected completion timeline. Further, it is requested to clarify the reasons for the 132 kV Loktak–Imphal bay at Loktak being unable to carry 82 MW despite being equipped with a Panther conductor.

Deliberation

NERLDC has highlighted the constraints arising from delays in the upgradation of bay equipment at Loktak for the 132 kV Jiribam–Loktak and 132 kV Imphal–Loktak lines (**presentation attached in annexure 2.6**). Due to the limited ampacity of the existing bay equipment, generation from Loktak (105 MW) is currently being restricted to 95 MW (under N-1 contingency), with a minimum continuous backdown requirement of 10 MW. This limitation persists despite Loktak being one of the most economical sources of power in the NER.

For Loktak-Imphal line, PowerGrid informed that they have replaced the CTs at Loktak end but other equipment and connectors etc. have to be upgraded by NHPC. NHPC requested PGCIL to carry out the rest of the upgradation also at the Loktak end. Forum opined that if the other equipments are adequately rated then only connectors may need to be replaced. Forum requested Powergrid and NHPC to carry out the study to check the capability of the existing equipments and if the equipments are found to be capable then connectors may be upgraded by Powergrid.

For Loktak-Jiribam line, NERPC informed that as per OM of MoP, the bay upgradation work at Loktak end has to be carried out by Powergrid. Powergrid informed that since the bay belongs to NHPC, bay upgradation has to be carried out by NHPC.

Further, NERPC informed that a meeting was scheduled (on OCC date itself) under Member, Power system, CEA for discussing the scope of work as mentioned in the OM w.r.t. the line. Forum opined that the decision on the matter will be taken later in light of the outcome of the meeting of CEA.

2.7. Non-submission of information for preparation of base cases in PSSE

NERLDC is preparing base cases for POC computation, M+11, M+6 and M+1 study on rolling basis that requires node wise data to be shared by utilities in given deadline. It has been observed that some of the utilities are not sending the data to NERLDC. Detail of the utilities not sharing data are as follows:

SL No.	Base Case	Utility Name
1	M+11	NEEPCO, BGTPP
2	M+6	Arunachal Pradesh, Mizoram, Manipur, Tripura
3	POC	Arunachal Pradesh, Manipur

Therefore, utilities who are not submitting the required data may kindly send on regular basis positively.

Deliberation

Forum exhorted the concerned utilities to share the required data on urgent basis and ensure compliance with IEGC 2023.

2.8. Non-compliance of instructions of NERPC forum -189th OCCM by SLDC Tripura regarding First Time Charging (FTC) of elements under NERPSIP:

As per the minutes of Special Review meeting regarding implementation of NERPSIP/Comprehensive Scheme held on 02nd May 2025, NERPSIP-Tripura declared that out of 151 elements, 107 elements have been commissioned. Further, as decided in 189th OCCM of NERPC, NERPC instructed all SLDCs to submit documents pertaining to FTC to NERLDC before commissioning of any element under NERPSIP. However, even after commissioning of 107 elements under NERPSIP-Tripura, there is no information available with NERLDC, which is resulting in mismatch between SCADA database of NERLDC and SLDC Tripura. The minutes of special review meeting and 189th OCCM are attached as Annexure -2.8 for reference.

SLDC Tripura may clarify regarding the non-compliance.

Deliberation

SLDC Tripura informed that many elements under NERPSIP have been charged even without the knowledge and approval of SLDC. Forum noted that this is gross violation IEGC 2023 and strongly urged SLDC Tripura to ensure compliance for the upcoming elements.

MS NERPC urged SLDC Tripura to send all the required data for NERPSIP for the charged elements and send the protection settings to NERPC for vetting and also advised States(including Tripura) to follow the IEGC FTC process.

2.9. Submission of Year-Ahead Demand Estimation for FY 2026-27

IEGC 2023 mandated that each SLDC and such other entities (like bulk consumers) which are directly connected to ISTS will carry out the demand estimation for both active and reactive power (as per clause 31.2(a), 31.2(b), 31.2(f)) along with the generation capacity availability (as per clause 31.4(b)) for meeting the projected demand and submit the same to respective RLDC for regional level forecast by method of aggregation, each RLDC would further furnish the regional level as well as state level forecast data to NLDC for computation for all India level demand and generation estimation (as per clause 31.2(g)).

The timeline for submitting these data to RLDC/NLDC would be as given in Table-I (as per clause 31.2(h)).

Table-I: Timeline for Demand Estimation

Daily demand estimation	10:00 hours of previous day
Weekly demand estimation (Monday to Sunday)	First working day of previous week
Monthly demand estimation	Fifth day of previous month
Yearly demand estimation	30th September of the previous year

States are requested to provide Year Ahead Demand Estimation for the FY 2026-27 in the attached formats by 30.09.2025 (Annexure-2.9).

Deliberation

Forum exhorted the state utilities to provide the year ahead demand estimation by 30th September.

2.10. Frequency response performance for the reportable events of month of July 2025

S. No.	Event Date	Time (In hrs.)	Event Description	Starting Frequency (in Hz)	Nadir Frequency (in Hz)	End Frequency (in Hz)	Δf	NER FRP during the event
1	22-July-25	19:46 hrs	As reported, at 19:46 hrs on 22nd July 2025, generation loss event of 1437 MW occurred in Koteswar and Tehri, NR.	49.942	49.832	49.874	- 0.068	1.76
2	29-July-25	14:55 hrs	As reported, at 14:55 hrs on 29th July 2025, generation loss event of 1100 MWin RE complex, NR	50.145	50.044	50.075	- 0.070	1.75

As per IEGC 2023 Clause 30.8, "The primary response of the generating

units shall be verified by the Load Despatch Centres (LDCs) during grid events. The concerned generating station shall furnish the requisite data to the LDCs within two days of notification of reportable event by the NLDC."

As per IEGC 2023 Clause 30.10.(n), "Each control area shall assess its frequency response characteristics and share the assessment with the concerned RLDC along with high resolution data of at least 1 (one) second for regional entity generating stations and energy storage systems and 10 (ten) seconds for the state control area."

As per sub-clause (a(v)) of clause (9) of IEGC 2023 Annexure-2, "All the SLDCs shall work out FRC for all the intra-state entities (for events indicated by the Regional Load Despatch Centers) based on the HDR available at their respective SLDCs and submit the same to respective RLDC within six (6) working days after the event. (Format as per Table-B)."

As per sub-clause (a(vi)) of clause (9) of IEGC 2023 Annexure-2, "All regional entity generating stations shall also assess the FRC for their respective stations and submit the same to respective RLDC within six (6) working days. (Format as per Table-B)

The high-resolution data (1 second or better resolution) of active power generation and frequency shall also be shared with RLDC."

Status of details received from constituents:

Frequency Response Performance (FRP) of generating stations for each

FRC computation and data submission status			
S. No	Control Area		
		22-07-2025	29-07-2025
1	Arunachal Pradesh	Not Received	Not Received
2	Assam	Received	Received
3	Manipur	NA	NA
4	Meghalaya	Not Received	Not Received
5	Mizoram	Not Received	Not Received
6	Nagaland	Not Received	Not Received
7	Tripura	Not Received	Not Received
8	BgTPP	Received	Received
9	Palatana	Received	Received
10	Panyor HPS	Received	Not On Bar
11	Pare HPS	Received	Not On bar
12	Doyang HPS	Not Received	Not Received
13	Kopili HPS	Received	Received
14	Khandong Stg-2	Received	Received
15	Loktak HPS	Not Received	Not Received
16	Kameng HPS	Received	Received

reportable event are calculated based on the submitted high resolution data from generating stations. However, the generating stations for which data is not received, FRC/FRP as per NERLDC HDR data is used for computation of Average Monthly Frequency Response Performance, Beta ' β ' for Generating Stations.

FRP values as considered (as per NERLDC HDR data/ generator high resolution data) for the event of July 2025 is as follows:

Frequency Response Performance			
S. No	Control Area		
		22-07-2025	29-07-2025
1	Arunachal Pradesh	-13.00	4.61
2	Assam	-0.25	2.09
3	Manipur	NA	NA
4	Meghalaya	8.67	0.00
5	Mizoram	1.50	0.2
6	Nagaland	1.15	0.02
7	Tripura	2.60	1.11
8	BgTPP	1.93	0.89
9	Palatana	-1.18	0.77
10	Panyor HPS	-0.03	Not On Bar
11	Pare HPS	0.20	Not On Bar
12	Doyang HPS	0.00	-0.48
13	Kopili HPS	30.29	12.58
14	Khandong Stg-2	-4.42	1.28
15	Loktak HPS	0.25	0.00
16	Kameng HPS	-0.13(FGMO off)	0.16(FGMO off)

From the FRP data, it has been observed that the Frequency Response Performance (FRP) of many control areas is not satisfactory. The median FRP for FY 2024-25 for Palatana, Pare HPS, Doyang HPS, Loktak HPS, and Khandong Stage-2 was also found to be unsatisfactory. Letters have been issued by NERLDC to the concerned utilities, advising them to review the matter and take necessary measures to improve the FRP of the generators to ensure effective Primary Frequency Response (PFR).

It is therefore requested to review the FRC/FRP and governor action of your respective control area, and take the necessary corrective measures to improve the Frequency Response Characteristic (FRC) / Frequency Response

Performance (FRP).

Deliberation

The forum noted that performance of Bongaigaon was ok while that of Palatana was poor and requested Palatana to look into the matter and improve their PFR (Primary frequency response).

NERLDC requested that state utilities to calculate the FRP of their internal generating units.

Agenda from NHPC, Loktak

2.11. SPS to prevent overloading of Loktak connected lines under N-2 contingency

Loktak Power Station is connected to 04 nos. 132 KV Lines i.e. Loktak-Nithokong Line#1, Loktak-Imphal (PG) Line#2, Loktak-Rengpang Line#3 & Loktak-Jiribam(PG) Line#4.

The Rengpang line, being connected radially through Rengpang Substation, is not considered reliable and typically caters to a load of approximately 1 MW. Excluding the Rengpang line, there are three main evacuation lines available i.e. Nithokong, Imphal (PG), and Jiribam (PG). Out of these, any two lines are capable of evacuating the full generation of 105 MW. However, if only a single line remains in service, it can handle an evacuation of around 70–75 MW.

In view of this, it is proposed to restrict the generation to 70 MW in the event of tripping of any two of the three main evacuation lines. Accordingly, an SPS (Special Protection Scheme) has been prepared to trip one generating unit specifically Unit #3 (in case all three units are in operation) to limit generation to within 70 MW. This action will ensure system stability and prevent overloading of the remaining single line under such contingency. The detail SPS scheme is attached herewith.

Deliberation

Forum agreed to the proposal of NHPC Loktak. NERLDC informed that one SPS (for ensuring reliable evacuation of the generation) is existing at the Loktak end and the above proposed SPS may be implemented with slight modification in the existing one. Forum requested NHPC to implement the SPS at the earliest.

Agenda from Powergrid

2.12. Construction of Admin and Transit Camp at Imphal in lieu of buildings at Jiribam.

The approval for re- construction of buildings at various sites in NERTS was approved in **23rd NERPC meeting** held at Goa in the Year 2022. Copy of MOM attached.

It is to mention that POWERGRID's Imphal Sub-Station was commissioned in the year 1995 at 132 kV voltage level. It was subsequently upgraded to 400 kV level in the year 2019. At present, 06 nos. of 400 kV line, 08 nos. of 132 kV line and 04 no. 33 kV line are connected to Imphal S/s, playing a critical role in the region's power transmission network. POWERGRID's Imphal Sub-Station is located near Imphal Airport and upcoming Imphal Railway Station and is very critical w.r.t. supply of uninterrupted Power to State capital Imphal. The 33 kV line to Imphal Airport is the only source of Power to the Airport.

Currently, 16 nos of POWERGRID's own employees and 25 nos of outsourced manpower are stationed for O&M of the Sub-Station & its Transmission Lines. However no dedicated Administrative Building and Transit Camp were constructed at the time of establishment of the Sub-station. At present, 2 (Two) nos. B-Type Quarter Buildings have been converted as Admin building & Transit Camp which have significantly aged, lack basic amenities. Imphal Sub-station being in the State Capital, the establishment of a proper Administrative Building and a Transit camp is imperative to meet the present and future requirements of the substation.

Meanwhile, Jiribam SS has been upgraded from AIS to GIS with re-arrangement of manpower. Hence it will be prudent to re-allocate the expenditure of Admin and Transit camp from Jiribam to Imphal SS and record in the meeting.

Deliberation

The forum in-principle agreed to the proposal of Powergrid and referred the matter to upcoming CCM meeting for further action.

2.13. Upgradation of 33kv indoor switchgear at 132/33kv powergrid Ziro substation (AIS to GIS conversion)

The upgradation of the 33KV Indoor Switchgear at the 132/33KV POWERGRID Ziro Substation from AIS (Air Insulated Switchgear) to GIS (Gas Insulated Switchgear) technology was approved in the **23rd NERPC meeting**. The scope includes dismantling the existing AIS system, erection, installation, testing, and commissioning of the 33 KV GIS panels.

The work has been awarded to SIEMENS LIMITED under GEM Contract No. GEMC-511687763676148 dated 06-Jan-2025, and manufacturing of equipment is already underway.

To carry out the project, SIEMENS LIMITED has requested a 25-day shutdown of the existing 33KV system to facilitate the complete installation, testing, and commissioning of the GIS panel and safe and efficient execution of the work. The matter was protractedly discussed with M/s Siemens for reducing the time of shutdown, however Siemens insisted upon the same and provided the compressed schedule.

Power Supply Contingency Plan

During the 25-day shutdown, power supply to Old Ziro, Kurung Kumey, and Kimin will be affected from the 132KV Ziro Substation. To address this, it is proposed to cater power to these areas from the newly commissioned 132KV New Ziro Substation at Yachuli, ensuring uninterrupted electricity supply.

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AL 200804

BUS COUPLER RANGANADI YACHULI 2 (NEW ZIRO 2) YACHULI 1 (NEW ZIRO 1) DAPORIJO

106LA 106CVT+H-H 106WT P2 P1 106CT 10689T 10689LE 10689L 107BAY 10789A 10789T 10752 107CT

105LA 105CVT+H-H 105WT P1 P2 105CT 10589T 10589LE 10589L 106BAY 10652 10689A 10689T 10689LE 10689L

104LA 104CVT+H-H 104WT 104CT 10489T 10489LE 10489L 10M BAY 10452 10489A 10489T 10489LE 10489L

102LA 102CVT+H-H 102WT 102CT 10289T 10289LE 10289L 102BAY 10252 10289A 10289T 10289LE 10289L

101BAY 10152 10189A 10189T 10189LE 10189L

132kV TRANSFER BUS

132kV MAIN BUS

132/33kV 3x5MVA TRANSFORMER

308LA 308CT 30852 308BAY

103CT 103LA 3x6.67 MVAR REACTORS BUS REACTOR

33kV INDOOR SWITCH GEAR ROOM

33kV BUS PT

313BAY 31352 313CT 31389 31389E 313LA KURUNG KUMEY

312BAY 31252 312CT 31289 31289E 312LA KOMIN

311BAY 31152 311CT 31189 31189E 311LA OLD ZIRO

310BAY 31052 310CT 31089 31089E 310LA

309BAY 30952 309CT 30989 30989E 309LA 250KVA TRF.#2

307BAY 30752 307CT 30789 30789E 307LA 250KVA TRF.#1

AGREEMENTS:

A. Approved / Reviewed for Fabrication / Construction

B. Approved / Rejected for Fabrication / Construction subject to no question of comments, modification or rework provided drawings are clear.

C. Further responsibility lies approved after interpreting the comments.

D. For introduction & release.

E. Not required.

POWER GRID CORPORATION OF INDIA LTD., Engineering Dept., Bangalore, Karnataka

ZIRO SUB STATION SINGLE LINE DIAGRAM

ALSTOM T&O Indo Limited

PGCIL-NTAMC-A/GEN-2-023

SCALE: 1/1000

SHEET NO.: 1

TOTAL SHEETS: 1

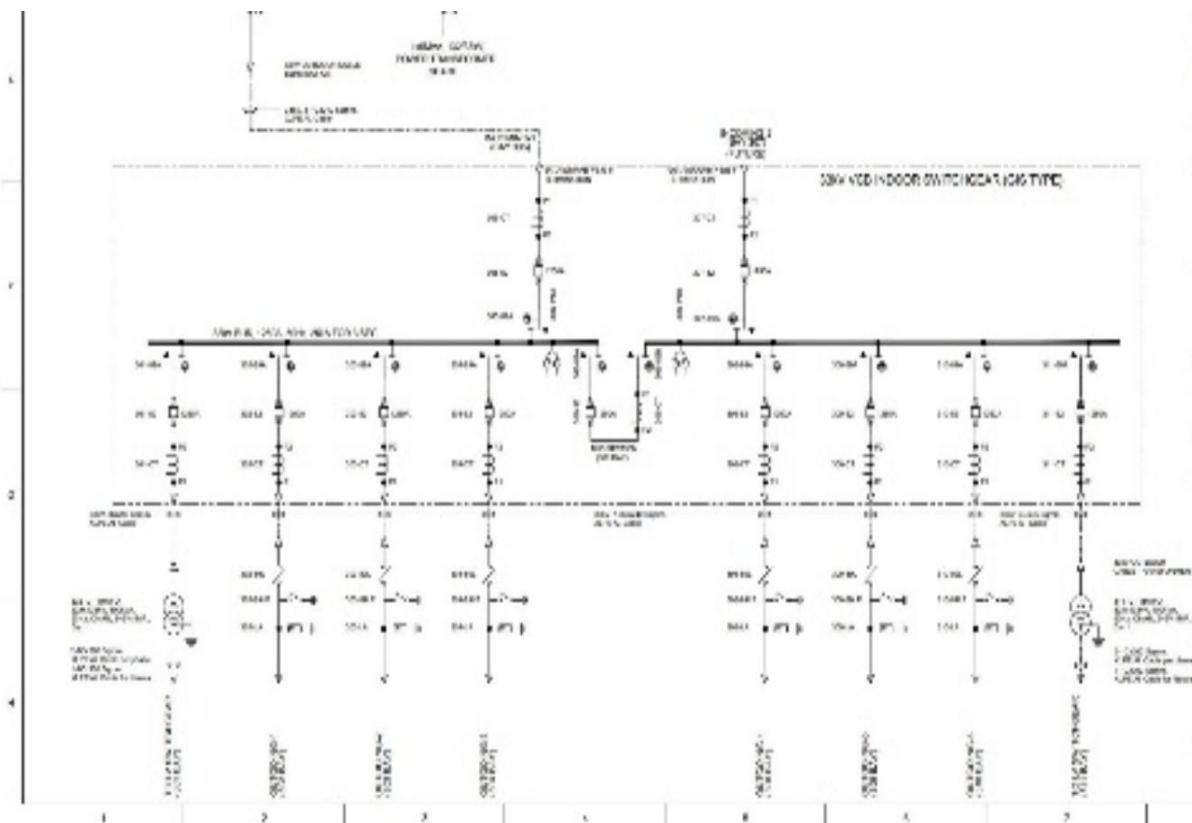


Fig 2: 33 KV (Part) SLD of New Ziro Substation at Yachuli

It may be noted that there are 6 (Six) nos. 33 KV Outgoing feeders available at New Ziro Substation at Yachuli. However, as per the information received, none of these feeders are currently charged.

Day-wise 25-Day Shutdown Execution Plan

Day	Activity
Day 1	Shutdown of 33KV system, isolation, safety grounding, permit-to-work procedures
Day 2-4	Dismantling of control wiring, protection system interfacing, terminal marking
Day 5-8	Dismantling of AIS panels, busbars, CTs/PTs, and associated equipment
Day 9	Site clearing and civil modification assessment for GIS base mounting
Day 10-11	Foundation preparation and trench/cable duct alignment check for GIS panels
Day 12-14	GIS base frame alignment, erection of GIS panels, mechanical assembly
Day 15-17	Cable termination (power & control), earthing, inter-panel wiring
Day 18-20	Relay and protection system integration, SCADA/RTU interfacing
Day 21	Initial testing: insulation resistance, continuity, primary injection testing
Day 22-23	HV Test and Functional testing of breakers, isolators, interlocks, and alarms
Day 24	Secondary injection and protection scheme testing (overcurrent, earth fault, etc.)

Day	Activity
Day 25	System checks, simulated load tests, GIS SF6 gas filling and leak testing
Day 26	Final inspection by POWERGRID & SIEMENS, system energization, commissioning report handover

Additional Considerations

Proper coordination with Arunachal Pradesh, NERLDC/SLDC for shutdown planning and load diversion to New Ziro.

Deliberation

Forum requested Powergrid to coordinate with DISCOM and SLDC of DoP Ar. Pradesh for exploring the possibility of load diversion to New Ziro and planning for shutdown.

2.14. Storage of 50 MVA ICT (owned by NEEPCO/ DOP,AP) laying after replacement by 160MVA ICT at Balipara S/S.

As per Minutes of 15th TCC & 15th NERPC Meeting held on 20th & 21st August, 2015 at Guwahati: Agenda no: A.4.3 : NER STRENGTHENING SCHEME-III (NERSS-III) - AGENDA REF. ITEM NO. B.1.3 Point no: 3: Replacement of existing 2x50MVA, 220/132kV ICTs by 2x160MVA, 220/132kV ICTs at Balipara sub-station of POWERGRID along with replacement of 132 kV equipment. NOTE: The above works will be carried out by POWERGRID under Regulated Tariff Mechanism.

Vide, **123rd OCC meeting held on 12th July,2016** at Guwahati: Agenda point: D.10 Installation of Spare Transformers in NER: 220/132kV, 2x50MVA Transformer at Balipara (PG) will be replaced by 2 x 160MVA Transformers. In case of 2 x 50 MVA Transformers at Balipara, it was decided that they would be returned to the owners i.e. NEEPCO & AEGCL. Also the 132KV Bay equipment of NEEPCO would be returned and 132 KV Bay equipment of AEGCL would be given to DOP Ar. Pradesh (as regional spare)

for use at RHEP S/S. Sr. Manager NEEPCO informed that the concurrence for returning of Balipara ICT and bay equipment would be informed latter. Sr. Manager NEEPCO informed that NEEPCO is facing capitalization issues for Balipara equipments and decision regarding the handover would be intimated in due course.

At present one no. of 50MVA ICT and CTs (only 132KV side CT s were replaced during 160MVA ICT package) pertaining to NEEPCO is lying at Balipara S/S which needs to be returned to the owner as per OCC meeting.

NEEPCO may confirm further course of action.

Deliberation

NEEPCO informed that the ownership of said ICT and CTs have been transferred to DoP Ar. Pradesh and requested Powergrid to coordinate with DoP Ar. Pradesh for the matter.

2.15. Requirement of study for finalizing the charges for Reactive Power Compensation as per IEGC guidelines for POWERGRID pertaining to 400kV Biswanath Chariali-Ranganadi Ckt 1 & 2 :

As per IEGC guideline, provisional Reactive Energy Account under ABT regime is maintained & finalized based on SEM meter data. Based on the guidelines, the ISTS entity is supposed to pay for MVAR injection when the voltage is more than 103%.

For 400kV Biswanath-Chariali-Ranganadi Ckt 1&2 (line length of 130 km) owned by POWERGRID, there has been frequent instances, wherein it has been observed based on SEM meter readings that VAR injection to the grid has been recorded when the voltage is more than 103%.

From the site level recorded data & PMU plots, it has been observed that on the subject dates when VAR injection to the grid was recorded when the voltage is more than 103%, the MW power flow in the above stated lines fell to zero & MVAR injection increased correspondingly in the above feeders including voltage rise. Hence, it is perceived that the MVAR injection into the grid when the voltage is more than 103% can be attributed to the fact that for

the subject lines which remained connected at both ends without any MW flow in the lines, the MVAR was injected for the shunt capacitances formed in the idly connected line.

Hence, the above MVAR injection can be attributed only due to the real time grid conditions & POWERGRID should not be penalized. If there is no MW power flow in the line, the feeder maybe disconnected in future to avoid reactive power charges on POWERGRID.

Therefore, it is to bring to the notice of the forum that reactive power compensation charges maybe implied on POWERGRID based on detailed study on the cause of the MVAR injection. If MVAR injection is due to idly connected feeder, then penalty for such scenario should not be implied on POWERGRID. Also, a detailed mechanism needs to be developed to identify such scenarios & waive off the penalty charges based on findings.

Deliberation

Regarding the concern of Powergrid, NERPC clarified that when shunt capacitances are formed in an idly connected line, the MVAR is generated from the line which flows towards the substations at both ends, so for the BNC-Ranganadi Lines, BNC will be recipient of the MVAR, generated in the line, and not the injector, therefore they are obviously not liable for penalty.

After detailed discussion forum decided that the matter to be discussed in detail in a separate meeting with commercial teams of NERPC and NERLDC.

Agenda from Mizoram

2.16. Grant of provisional First Time Charging (FTC) permission for Bairabi – W.Phaileng via Mamit 132kV line and 132kV Sub Station at Mamit.

Construction of 132kV line Bairabi – W.Phaileng via Mamit and 132kV Sub-Station Mamit was taken up since 2017 under NEC funding. Unfortunately, this line needs to cross forest land where clearance could not be obtained as stipulated. Due to this reason, the work completion was delayed and could be

completed recently after clearing all dues like NPV and Penal NPV from Environment and Forest Climate Change Department. It is realized recently that, Telemetry and Communication for intra State line also should be established for 132kV System and above in NER as per Indian Electricity Grid Code Regulation 2023, clause no.8 (4). However, provision for establishing Telemetry and Reliable Communication in these lines and Sub-Stations were not embedded in the Estimate as the DPR was prepared way back in 2016. In order to achieve requirement specified in the Grid Code, DPR for Reliable Communication Scheme in Mizoram amounting to Rs.36.76 crore has been prepared and submitted to PSDF Secretariat for funding. The TESC instructed P&ED, Mizoram to reconstruct the DPR as the cost was a little bit high compared to other region. As instructed by TESC of PSDF Secretariat, DPR for Reliable Communication Scheme in Mizoram is being reconstructed and to be submitted to PSDF for funding. The DPR will also cover Telemetry and Communication for Bairabi – W.Phaileng via Mamit and 132kV Sub-Station Mamit and will commission in these lines as soon as fund is received from PSDF Secretariat as the work could not be taken up from state resource due to financial constraints.

It is therefore requested to grant provisional First Time Charging permission of Bairabi – W.Phaileng via Mamit and 132kV Sub-Station Mamit due to urgent requirement of charging the line, as below: -

1. To reduce power supply interruption in western part of Mizoram, which is being distributed through 33kV level at present.
2. To issue completion and utilization certificates to the funding Agency i.e. NEC who is pressing hard for completion of the same.
3. To facilitate taking over of W.Phaileng – Marpara 132kV line and 132kV Sub Stations of W.Phaileng and Marpara which was taken up under NERSIP Scheme by PGCIL.

Deliberation

NERLDC stated that providing FTC without telemetry and communication is non-compliance of IEGC 2023.

Mizoram stressed upon charging the line so that to charge the 132/33kV Mamit substation and improve reliability of power supply in western part of Mizoram. Further he stated that telemetry and communication has been included in the DPR for reliable communication and will be sent shortly to PSDF for funding.

After detailed deliberation MS NERPC stated that a letter will be written to CEA for seeking advise on the matter.

Agenda from Tripura

2.17. Accessing WBES outside SLDC

WBES is not being exercised outside of SLDC. For smooth functioning of the system as well as commercial viability of the Discom, it is utmost necessary to exercise out of office also. NERPC/NERLDC is requested kindly to look into the matter on top most priority.

Deliberation

NERLDC informed that due to cyber security concerns access from outside SLDCs is restricted. After detailed deliberation the forum noted that the cyber security concerns are genuine and access to WBES to remain restricted outside the SLDCs.

Agenda from NERPC

2.18. Planned maintenance schedule of Generating units for FY 2026-27

Unit-wise Planned Maintenance schedule of Generating Units is required for the fiscal year 2026-27 as per format attached. It is requested to send the data to NERPC at the earliest.

Deliberation

Forum exhorted the generating utilities to provide the required data at the earliest.

2.19. Reviewing the FGD installation in consultation with DISCOMs in light of amended Environment (Protection) Rule notified on 11.07.2025 by MoEFCC

It is to mention that MoEF&CC has notified amended Environment (Protection) Rules on 11.07.2025 thereby applicability of SO₂ emission standards in thermal power plants has been revised based on their location/category. As per the above amendment, SO₂ emission standards (notified in 2015) shall not be applicable to all category C thermal power plants subject to ensuring compliance of stack height notified number GSR 7425, dtd. 30th August, 1990.

The generating utilities would be required to review the FGD installation in consultation with DISCOMS at the ongoing projects at category C TPPs.

Category A: Within 10 km radius of National Capital Region or cities having million plus population

Category B: Within 10 km radius of Critically Polluted Areas or Non-attainment cities

Category C: Other than those included in Category A and B

Total 462 Units with 166.885 GW capacity are under Category -C.

1. 36 units of 19600 MW capacity have installed FGD
2. 167 units of 73910 MW capacity placed LOA for installation of FGD
3. Remaining 203 units of 66967.5 MW under various stages of bidding process (advised by CEA to stop immediately further process for FGD installation)

Following points to be discussed among NER power utilities -

Point no. 1: Generating utilities would review the progress of FGD installation under category C where LOA has already been placed and furnish the latest physical & financial progress of FGD installation as per attached format. Further, they would discuss the matter with vendors and assess financial impact of cancelling LOA for FGD installation.

Points no.2: The beneficiary DISCOMS may opt one of the followings after cost benefit analysis: a) Complete FGD installation where LOA placed under category C and operate them and pay for the cost attributable to FGD (CAPEX +O&M+ OPEX), or b) Complete FGD installation where LOA placed and stop operation and pay CAPEX only, or c) Stop FGD installation/construction immediately and pay the fixed cost (CAPEX) incurred so far and other applicable cost (to be finalized with Vendors). d) Complete FGD installation and operate FGD with water only to reduce SPM emission. In this regard opinion of DISCOMS may be obtained which is crucial for further course of action.

Deliberation

Member Secretary, NERPC enquired NTPC BgTPP about the status of FGD installation in the plant. NTPC informed that FGD installation is underway and it has been completed for one unit.

After detailed deliberation, forum decided that the matter will be discussed with CEA and advise of Go&D Wing CEA will be taken on this matter.

PART-C: METERING ITEMS

3.1. Time Drift Issues:

Time drift in SEMs may result in computational errors in Regional energy accounts & Weekly Loss. All constituents in whose premises the meters are installed are required to take corrective action for the same.

Time drift of more than 2 mins observed in the following meters:

S No.	ENTITY	FEEDER NAME	METER NO.	TIME DRIFT	REMARKS
1	MANIPUR	132 kV Ningthoukhong- Imphal-3	NE- 0151-A	Around 2 mins 10 secs	Since 226 th OCCM
2	MANIPUR	132 kV Ningthoukhong- Imphal-1	NP-9946- A	Around 02 mins 35 secs	Since 226 th OCCM

The issue had been raised in the 226th OCCM dated 20.05.2025 and has not been rectified since.

Deliberation:

This agenda stands completed.

3.2. Non-Receipt of data from Kolasib Substation:

Weekly SEM data of 132 kV Kolasib (Mizoram) Substation is important for accounting of Mizoram drawal. However, SEM data from the said substation is not being received since 30/06/2025. Also, prior to this issue, files which were sent by Kolasib (since mid-June) were of older weeks. As both meters present at Kolasib are Main meters, Kolasib is therefore requested to send weekly data by following the instructions given via mail since mid-June.

Deliberation:

Mizoram SLDC informed the forum that license for the VINPLUS software has expired. The relevant data shall be sent from next week ahead.

3.3. Issue in SEM data of 132 kV Dharmanagar end of Dullavcherra Feeder:

It has been observed that the data received from Dharmanagar end is erroneous and the same neither matches with SCADA data nor with data from Dullavcherra end. Several follow ups have been initiated regarding the matter with utility, however, matter is yet to be resolved.

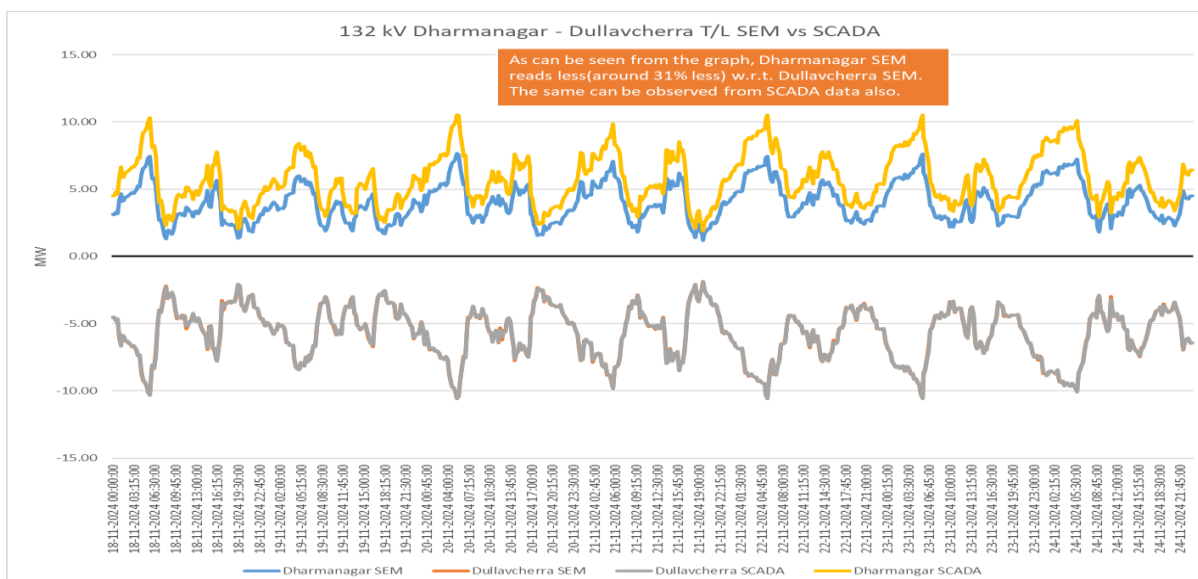
It is also to be noted that since 222nd OCCM, data from Dharmanagar S/S has not been received by NERLDC from said substation. Issue with Laptop had been mentioned by Tripura in the previous OCCM. Tripura stated that the Laptops are still under procurement and the same shall be procured by next OCCM.

However, the same is yet to be resolved. Tripura is hereby requested to provide updates on the issue and also provide contact details of personnel stationed at Dharmanagar S/S for future communication.

As discussed in 228th OCCM, a letter to Managing Director, TPTL has also been sent on 11-08-2025 on the above stated subject. Reply to the same is awaited from Tripura end.

Deliberation:

Tripura SLDC informed the forum that the required laptops have already been procured. However, they requested assistance from PGCIL for installation of the relevant software. PGCIL agreed to extend necessary support and confirmed that the installation can be carried out at any sub-station nearest to Tripura.



3.4. Issue in receipt of data from 132 kV Tipaimukh S/S

Weekly SEM data from 132 kV Tipaimukh (Manipur) S/S is essential for accounting of Manipur Drawal. However, SEM data for said substation is not being received. On query, downloading data from DCD to laptop has been failing.

In the 228th OCCM, Manipur stated that the Laptop is still under procurement and the entire issue shall be resolved by next OCCM. However, data from said Substation is yet to be received at NERLDC end.

Deliberation:

Manipur SLDC informed the forum that the procurement process has been initiated and it's with the finance dept. It was also mentioned that Tipaimukh s/s is not accessible due to the prevailing Law and Order situation in the state of Manipur, hence will need third party assistance in the collection of meter data. The forum advised Manipur SLDC to expedite the procurement process and complete it at the earliest possible.

3.5. Issue in Receipt of Data data from Udaipur S/S:

Weekly SEM data from 132 kV Udaipur (Tripura) Substation is not being received since replacement of old LnT Meter with Secure Make Meter on 23-12-2024(for 132 kV Udaipur end of Palatana T/L). In 222nd OCCM, the forum

advised Tripura to resolve the issue by next OCC meeting. Data from the replaced meter is yet to be received by NERLDC.

In the 228th OCCM, Tripura stated that the laptops are still under procurement and the same shall be procured by next OCCM. Also, as discussed in 228th OCCM, a letter to Managing Director, TPTL has also been sent on 11-08-2025 on the above stated subject. Reply to the same is awaited from Tripura end.

Deliberation:

Tripura SLDC informed the forum that the required laptops have already been procured. However, they requested assistance from PGCIL for installation of the relevant software. PGCIL agreed to extend necessary support and confirmed that the installation can be carried out at any sub-station nearest to Tripura.

3.6. Receipt of SEM data from 132 kV Budhjungnagar, 132 kV Ambassa, 132 kV Dharmanagar, 132 kV PK Bari & 132 kV SM Nagar (TSECL) Substations:

As per 175th OCCM dated 18th Feb 2021 agenda D.12, Indigrid and Powergrid NERTS were given responsibility to collect and send SEM data on weekly basis for Tripura owned substations viz 132kV Ambassa S/s, 132kV Budhjungnagar S/s, 132 kV PK Bari S/s and 132 kV SM Nagar S/s for the interim period, due to shortage of DCDs. The relevant extracts are furnished below

Quote:

"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 Budhjangnagar, 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 Budhjangnagar and Ambassa of Tripura."

Unquote

As per IEGC 2023 Clause 49(12)(e) entity shall be responsible to send weekly meter data to RLDC. The relevant extracts are furnished below

Quote:

“Entities in whose premises the IEMs are installed shall be responsible for (i) monitoring the healthiness of the CT and PT inputs to the meters, (ii) taking weekly meter readings for the seven day period ending on the preceding Sunday 2400 hrs and transmitting them to the RLDC by Tuesday noon, in case such readings have not been transmitted through automatic remote meter reading (AMR) facility (iii) monitoring and ensuring that the time drift of IEM is within the limits as specified in CEA Metering Regulations 2006 and (iv) promptly intimating the changes in CT and PT ratio to RLDC.”

Unquote

In the 228th OCCM, Tripura stated that the Laptops are still under procurement and the same shall be procured by next OCCM.

However, data is yet to be received from concerned utilities on weekly basis. Also, as discussed in 228th OCCM, a letter to Managing Director, TPTL has also been sent on 11-08-2025 on the above stated subject. Reply to the same is awaited from Tripura end.

Deliberation

Tripura SLDC informed the forum that the required laptops have already been procured. However, they requested assistance from PGCIL for installation of the relevant software. PGCIL agreed to extend necessary support and confirmed that the installation can be carried out at any sub-station nearest to Tripura

PART-D: ITEMS FOR UPDATE/FOLLOW-UP

4.1 Bus Strengthening of 132kV and 33kV system at 132/33/11kV Kohima Sub-station

DoP Nagaland informed that the 132/33/11 kV Kohima Sub-station plays a vital role in Nagaland's power transmission network, acting as a key node for delivering power to the state capital and surrounding districts, including Tseminyu, Wokha , Phek, Meluri and Kiphire. The 132/33/11kV Kohima Sub-station is connected to the grid through the 132kV Karong-Kohima, 132kV Dimapur PG-Kohima, 132kV Zhadima-Kohima and 132kV Meluri-Kohima Lines. The sub-station is also linked to the Doyang HEP through the 132kV Doyang-Sanis-Wokha-Chiephobozou-Zhadima-Kohima line and Likimro HEP through the 132kV Likimro-Kiphire-Meluri-Kohima line. The sub-station is linked to two(2) inter-state elements through the 132kV Karong-Kohima and 132kV Dimapur PG-Kohima lines. The sub-station not only plays an important role in system stability and reliability of Nagaland but also for Northern Part of Manipur State. Presently, the sub-station caters power to the entire State Capital with an existing load of approximately 45.6 MW. Kohima, the capital city of Nagaland state, has been selected in the list of Smart City Initiative by Government of India. As such, numerous socio-economic infrastructural developments are underway. Therefore, the Sub-station is expected to experience a substantial increase in loading due to increased load demand and capacity addition of upcoming generation sources. Besides the existing Likimro HEP (24MW), upcoming generation sources includes the proposed Tizu Valley HEP (24 MW), Zungki HEP (24 MW), Lower Tizu HEP (42 MW), Ponglefo HEP(1 MW), Lower Likimro HEP (8.1 MW) thereby cumulatively contributing an additional 123.1 MW to the grid. Consequently, the projected future loading on the 132/33/11kV Kohima sub-station is estimated to be around 190 MW.

The Sub-station presently operates on a Single Bus Bar arrangement and hence, the sub-station is highly vulnerable to disruptions. Any system breakdown or fault on the Bus leads to complete outage causing entire blackout of the state Capital severely disrupting essential public services,

administrative operations, government functions and also affects the reliability and stability of power to its adjoining districts. There have been many incidents in the past where a fault on the Bus has led to blackout of the entire capital and its adjoining areas. This particular issue has been taken on a serious note by North Eastern Regional Power Committee (NERPC) & North Eastern Regional Load Despatch Centre –Grid India (NERLDC) and subsequently discussed multiple times at NER-Power Co-ordination Committee (NER-PCC) & Operation and Co-ordination Committee (NER-OCC) meetings. During 54th, 55th, 56th, 57th and 58th PCC Meetings NERPC has strongly recommended for Bus Strengthening of 132kV and 33kV at Kohima sub-station. However, due to funding issues and space constraint, the proposed strengthening / upgradation could not be implemented. Strengthening of existing 132kV and 33kV Bus Bar from Single to Double busbar system is therefore vital to enhance system reliability.

The sub-station is also constrained in terms of available land for expansion and the aging switchgear components necessitates the need for a major upgradation to accommodate the future demand, improve fault tolerance and support modernization of the grid. Due to the hilly terrain of the sub-station, the 132kV bays at the sub-station are constructed at three different elevation levels in a cascading arrangement. On 28th June 2019, the Executive Director, NERLDC on his visit to 132/33/11 kV Kohima Sub-station also remarked on the limited space and congestion within the sub-station, noting that any future expansion and modification or strengthening would be challenging under the existing AIS setup. In 2024, the Department engaged M/s Hitachi Energy India Limited for conducting system Study of 132/33/11kV Kohima Sub-station. During their site visit, the firm observed the existing cascading layout of the 132kV bays and the space constraint of the sub-station and suggested for conversion of the existing 132kV AIS substation to Hybrid-GIS substation. Conversion of existing AIS Bays to Hybrid GIS not only offers the benefit of space optimization for construction of Double Bus Bar arrangement but also has the advantage of compactness, reduced maintenance cost and high reliability, making it a viable solution due

to constrained space installations. The 33kV Hybrid-GIS arrangement at Kohima Sub-station will also increase reliability of the 33 kV voltage network and ensure better protection coordination with the 11 kV and LT levels.

Considering the existing load, future load demand and integration of upcoming Hydro Power stations projects, the bus loading is expected to touch about 190MW. This will require replacement of ACSR Single Panther Bus with ACSR Twin Moose Bus, as the present bus is not sufficient to handle the projected load growth.

Further, The 132/33/11kV Kohima sub-station was commissioned during the 1980s and has been a vital infrastructure for power distribution in the State capital and adjoining areas since then. Given it's age, the existing control panels have been in service for a very long time and with the advancement in control panel automation system through Substation Automation System (SAS), modernization of control room with modern SAS will enable real-time monitoring, fault isolation and remote operation by integration with SCADA system thereby ensuring better system control and fault response times.

The proposal "Bus Strengthening of 132kV and 33kV system at 132/33/11 kV Kohima Sub-station" consists of following scope of works:

- a) Conversion of 132 kV & 33kV AIS Bays to Outdoor Hybrid Gas-Insulated Sub-station (GIS).
- b) Strengthening of the Existing 132 kV & 33kV Busbar from Single to Double Busbar Configuration.
- c) Replacement of 132 kV & 33kV Busbar Conductor from ACSR Panther to ACSR Twin Moose conductor for 132kV system and ACSR Moose conductor for 33kV system.
- d) Replacement of existing 132kV and 33kV Control Panels with 132kV and 33kV Control Panel with Automation System.
- e) Substation Automation System (SAS).

The project has been conceptualized and proposed with the following **goals & objectives:**

- i. The proposed strengthening of 132kV & 33kV bus shall enhance reliability of power to the State capital and it's adjoining areas.
- ii. The Double Bus Bar scheme shall provide system redundancy and enable parallel operation and maintenance at both 132kV and 33kV levels thereby ensuring uninterrupted power supply and also minimize outage during contingency and scheduled maintenance.
- iii. Hybrid GIS will reduce operation and maintenance cost as compared to AIS.
- iv. Improved system design, support higher short-circuit levels and ease of future addition of new elements.
- v. Up-gradation of busbar conductors will enhance load carrying capacity for projected load growth and integration of upcoming generation sources.
- vi. Integration of SAS and SCADA systems through modernization of the Control Room of the 132/33/11kV Kohima Sub-station shall enable real-time monitoring, fault isolation and remote operation thereby ensuring better system control and fault response times.

In view of the above considerations, with the objective to enhance capacity, reliability, and resilience of power supply across Kohima by modernizing and upgrading the 132/33/11 kV Kohima Sub-station through the implementation of Hybrid GIS, double busbar configuration, and automation systems the proposal for “Bus Strengthening of 132kV and 33kV system at 132/33 kV Kohima Sub-station” with an estimated cost of **Rs. 5956.60 lakh** is submitted for consideration of funding under PSDF

The matter was discussed in 29th TCC and RPC meeting wherein it was referred to sub-committee for detailed deliberation.

In 228th OCCM, The forum opined that the Bus strengthening of DoP Nagaland proposal requires study and constituted a system study group

comprising of members from NERPC, NERLDC, state STU, and state SLDC for examining the strengthening requirement. MS NERPC advised the study group to present its study report in next OCC meeting.

NERLDC requested DoP Nagaland to provide necessary data for creating the base case and future load requirement in the Kohima area.

Deliberation

NERLDC informed that as per study, upgradation of Bus conductor is required keeping in view the future load flow through this substation. Further, NERLDC suggested that since the substation is critical one, serving the capital area, the bus scheme may be upgraded to Double Main Bus scheme to improve reliability.

The forum approved the upgradation of Bus conductor along with converting the Bus scheme to Double Main scheme and proposed for PSDF funding for the same.

4.2 DoP Nagaland may update the forum on the status of data submission. Proposal for approval of 132/33kV Substations at Chizami and Phek in Nagaland: DoP Nagaland

DoP Nagaland proposed 132/33kV Substations at Chizami and Phek in Nagaland with following connectivities:

1. Construction of 132/33 kV 2 x 25 MVA Sub-Station at Chizami, with 132 kV double circuit transmission line from Pfutsero to Meluri along with associated 33 kV lines and 33 kV & 132 kV end equipment.
2. Construction of 132/33 kV 2 x 25 MVA Sub-Station at PHEK, with 132 kV double circuit transmission line from Pfutsero to Phek along with associated 33 kV lines and 33 kV & 132 kV end equipment.

In 29th TCC/RPC meeting, forum noted that the matter requires detailed discussion and referred the matter to sub-committee of NERPC for further deliberations.

In 228th OCCM, MS NERPC requested NERLDC to carry out the necessary study on the requirement of these substations and asked DoP Nagaland to provide all the required data to NERLDC to facilitate the study, however, as per the PSDF guidelines, new transmission schemes are not eligible for PSDF funding.

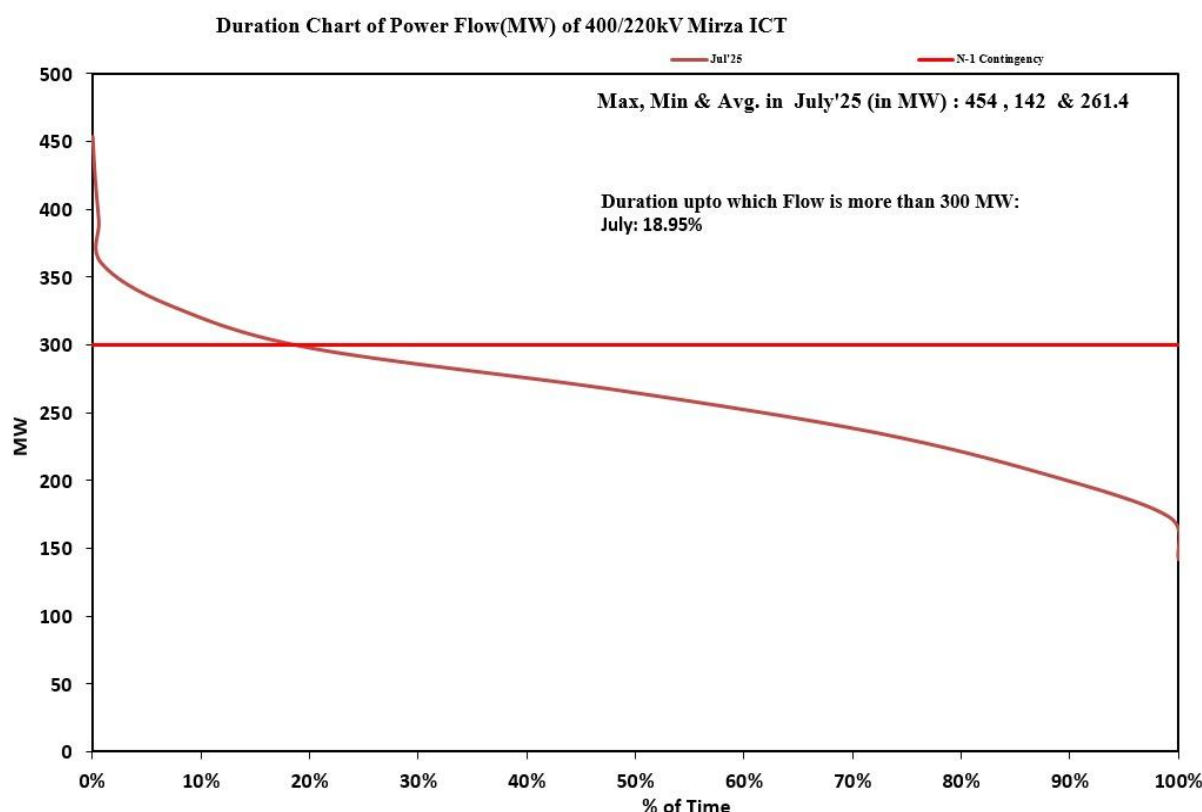
DoP Nagaland may update the forum on the status of data submission

Deliberation

Forum requested DoP Nagaland to send the proposal directly to Central Electricity Authority (CEA) for inclusion in the Transmission resource adequacy plan for FY 2035-36

4.3 Proposal for SPS to Mitigate Azara ICT Overload During Contingency Case

NERLDC informed that as of 23rd July 2025, Assam's power demand reached 2,798 MW, while the grid drawl was recorded at approximately 2,535 MW, based on data from the SCADA system. It is important to note that Assam's Total Transfer Capability (TTC) stands at around 2,050 MW. Exceeding this limit poses a significant risk under N-1 contingency conditions.



The maximum combined loading recorded on the 400/220 kV, 2x315 MVA ICTs at Azara was 454 MW.

Studies suggest that in the event of an outage of the 220 kV BTPS–Agia DC, the 400/220 kV, 2x315 MVA ICTs at Azara would fail to comply with N-1 reliability criteria. If one ICT at Azara were to trip under such a scenario, it could potentially result in a grid disturbance, in capital region of the Assam power system.

In light of the above, it is to consider to implement an SPS to alleviate the loading on the ICTs at Azara under N-1 contingency conditions. This measure would enhance system security and reduce the risk of cascading failures.

In 228th OCCM, Forum agreed to the requirement of SPS to address the issue of non-compliance of N-1 contingency of ICTs (400/220kV) at Azara and instructed NERLDC to conduct an online meeting with NERPC, AEGCL and APDCL to devise the SPS.

Deliberation

NERLDC informed that the SPS has been finalized in a meeting held on 4th August between NERPC, NERLDC, AEGCL and APDCL.

AEGCL updated that the SPS is under implementation.

4.4 Restoration of 132 kV Sonabil-Gohpur and 132 kV Sonabil-Pavoi line to its original configuration

Background:

In the 186th OCC meeting held on 6th March 2020 at Guwahati; it was decided to temporarily bypass the Sonabil substation and operate the 132 kV Pavoi–Sonabil and 132 kV Sonabil–Gohpur lines as a single 132 kV Pavoi–Gohpur circuit. This arrangement was intended as a temporary measure until the 132 kV Biswanath Chariali–Itanagar line was LILO at Gohpur.

As of July 2023, the LILO of the 132 kV Biswanath Chariali–Itanagar line at Gohpur has been successfully completed. Furthermore, the 132 kV Pare–North Lakhimpur double circuit line has also been commissioned in August 2023, significantly strengthening the network in the region. Given these developments, it is now proposed to restore the original configuration of the lines as follows after deliberation:

- 132 kV Sonbil–Gohpur
- 132 kV Sonabil–Pavoi

Considering the significant evolution of the network in this area, it was recommended that a committee be constituted to evaluate the proposal for restoring the original configuration. The committee should assess the technical and operational advantages and disadvantages of the restoration, taking into account both current system conditions and future network expansion plans.

In 228th OCCM, MS NERPC stated that the committee will be constituted shortly.

Deliberation

MS, NERPC stated that the committee will be set up shortly, with membership from NERPC, NERLDC and AEGCL.

4.5 Implementation/Review of Islanding schemes of NER:

As per Clause 10 of the Central Electricity Authority (Grid Standards), Regulations, 2010: “Islanding Schemes- (1) The Regional Power Committees shall prepare Islanding schemes for separation of systems with a view to save healthy system from total collapse in case of grid disturbance. (2) The Entities shall ensure proper implementation of the Islanding Schemes”. In this regard the Islanding schemes which are being planned/have been implemented in NER are mentioned below, along with the updates from 227th OCCM.

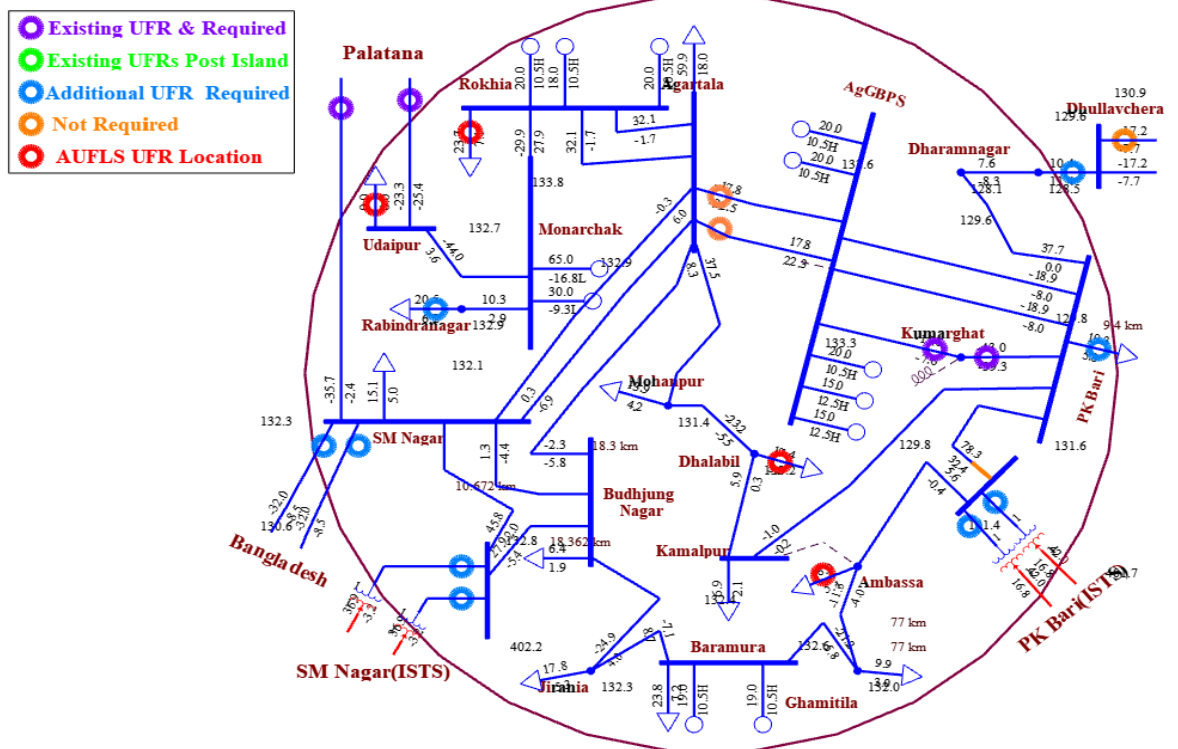
A. Guwahati Islanding Scheme

Being discussed in TESG meetings. Queries raised by TESG being replied

B. Tripura/Agartala Islanding Scheme

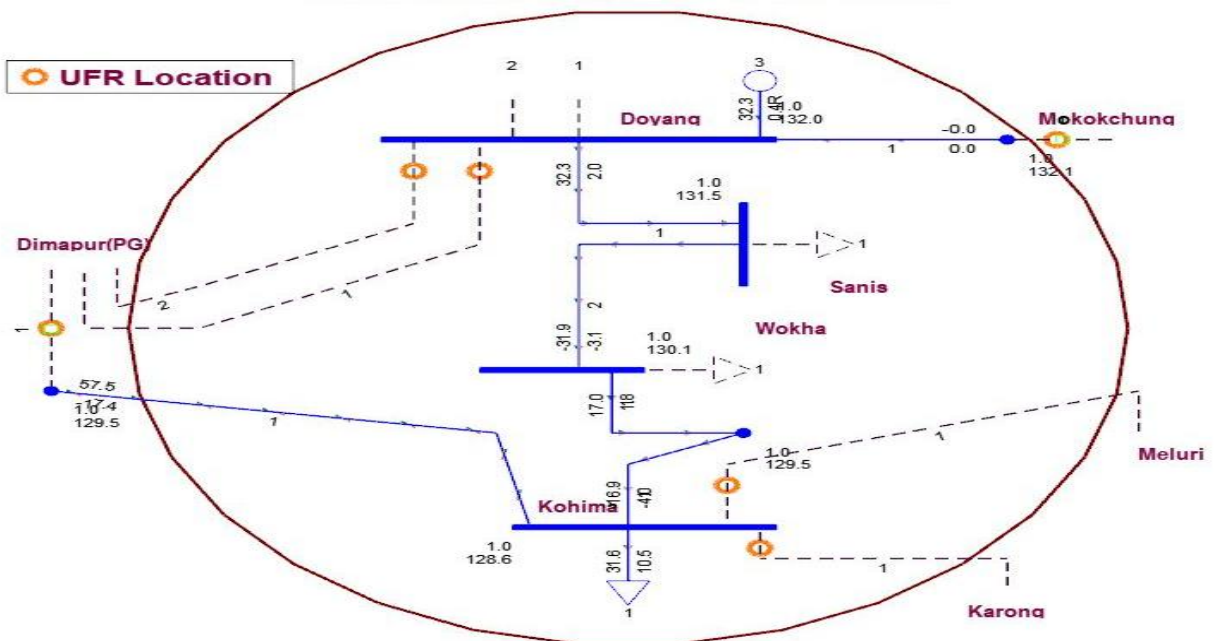
OTPC- done its part, Powergrid -will complete shortly, NTL: absent Tripura: to buy UFRs. NERLDC suggested to check whether numerical relays are present or not

Tripura Islanding Scheme



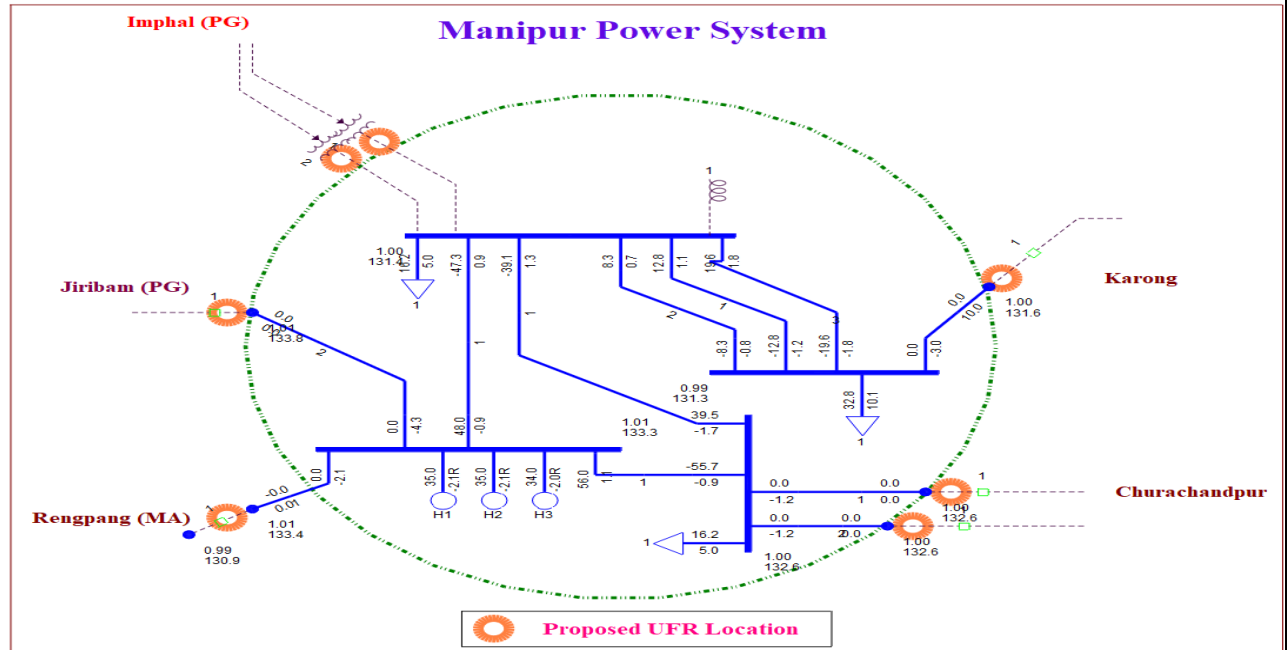
C. Kohima Islanding scheme

Stability issues observed. Further study to be done.



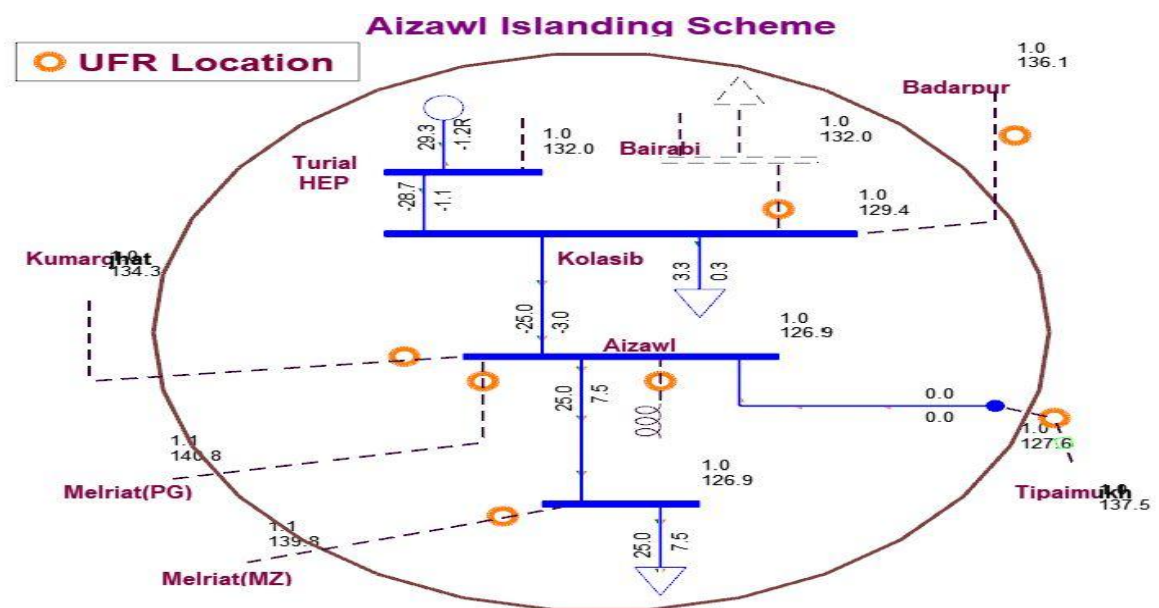
D. Imphal Islanding scheme

Dynamic study to be done. Multi machine involved, which necessitates real time monitoring of load and generation and load in the machine, therefore PMUs and centralized processors are required, as done for Guwahati Islanding scheme



E. Aizawl Islanding scheme

Under implementation.



F. Meghalaya/Shillong Islanding Scheme

NERLDC informed that Stability issues observed due to small units.
Further study to be done

In 228th OCCM, Utilities updated as follow -

S.N.	Island	Update (228th OCCM)
1.	Guwahati	PSDF funding approved, except for communication part.
2.	Tripura/Agartala	NEEPCO – to be done for AGTCCPP and Monarchak and mail to NERPC and NERLDC. Tripura – UFRs to be procured. Rest work done
3.	Kohima	Stability issues observed. Further study to be done
4.	Imphal	Dynamic study to be done.
5.	Aizawl	Implemented on 17 th July'2025
6.	Meghalaya/Shillong	Dynamic study to be done. Multi-machine involved, which necessitates real time monitoring of load and generation and load in the machine, therefore PMUs and centralized processors are required, as done for Guwahati Islanding scheme

Deliberation

In 229th OCCM, Forum decided/Utilities updated as follow -

S.N.	Island	Update (229th OCCM)
1.	Guwahati	AEGCL informed that PSDF funding is approved, except for communication part. At present Tripartite agreement (PSDF, AEGCL and Government of Assam) is

		underway. NERLDC requested the forum to form a committee to prepare and finalise the Technical Specification & detailed BoQ. The forum approved the following names for the committee members: 1. Sri Arup Sarma, AGM, Communication Division, LA, AEGCL 2. Sri Dhriti Lochan Hazarika, AGM (BD), HQ, AEGCL 3. Sri Ranjan Kr. Goswami, AGM(SCADA), SLDC Assam 4. Sri Pankaj Bikash Sarmah, AGM (R), APGCL 5. Sri Abhishek Kalita, Deputy Manager, LA T & C & Comm., AEGCL 6. Sri Manash Jyoti Baishya, Chief Manager, AM, POWERGRID 7. Sri G. Sonwal, DGM, Electrical Maintenance, NTPC Bongiangoan 8. Sri Saugato Mondal, GM, NERLDC 9. Sri Palash Jyoti Borah, Chief Manager, NERLDC 10. Sri Sakal Deep, Deputy Manager, NERLDC. The forum advised the committee to complete the task and submit the Technical Specification & detailed BoQ by 15th October 2025. Regarding the communication part, MS NERPC the matter will be taken up NPC division of CEA on priority.
2.	Tripura/Agartala	Tripura – UFRs to be procured. Process will commence shortly Rest work done
3.	Kohima	Stability issues observed. Forum decided to drop the islanding scheme.

4.	Imphal	Loktak is going under R&M for a long duration, the scheme will be discussed after coming back from R&M.
5.	Aizawl	Implemented on 17 th July'2025
6.	Meghalaya/Shillong	Dynamic study to be done. Multi-machine involved, which necessitates real time monitoring of load and generation and load in the machine, therefore PMUs and centralized processors are required, as done for Guwahati Islanding scheme

4.6 Automatic Under Frequency Load shedding (AUFLS) scheme of NER:

Status as updated in 227th OCCM

Name of the State/utility	Installation of UFRs	Status of mapping
Ar. Pradesh	Completed	DoP Arunachal Pradesh stated that mapping of feeder at Lekhi SS (Industry feeder, stage 1) completed For rest of the feeders and substations, coordination with GE is underway and will be taken up gradually.
Assam	Completed	Completed
Manipur	UFR installed but not enabled as system integration work is pending with GE. To be completed by June'25 end	Mapping is pending from substations end, which is being hampered due to Law & Order situation in the State. Also, system integration work is pending due to payment issue with M/s GE.
Meghalaya	Completed	Completed

Mizoram	Completed	Coordination with GE is underway for mapping. SCADA integration of Shihmui completed but mapping left due to fibre issue. Coordination with PGCIL required. Mizoram further apprised that there is problem with SCADA display at Luangmual substation due to RTU issue. Issues to be resolved shortly
Nagaland	Completed	Completed
Tripura	Completed	Tripura apprised the forum that that mapping at Ambassa is completed but integration is left, OPGW being laid, to be completed by next OCCM.

NERPC informed that AUFLS quantum has been revised for NER for the FY 2024-25 and presented the revised quantum for load shedding to the forum, which is provided below: –

UFR load shedding for NER States for the FY 2024-25

State	stg I (MW)	Stg II	Stg III	Stg IV
Ar. Pradesh	8.659594937	10.39151392	12.12343291	12.12343291
Assam	112.3419494	134.8103392	157.2787291	157.2787291
Manipur	11.54612658	13.8553519	16.16457722	16.16457722
Meghalaya	18.85556962	22.62668354	26.39779747	26.39779747
Mizoram	7.542227848	9.050673418	10.55911899	10.55911899
Nagaland	8.100911392	9.721093671	11.34127595	11.34127595
Tripura	16.85362025	20.2243443	23.59506835	23.59506835
Total	183.9	220.68	257.46	257.46

For FY 2023-24 (already under operation)

State	stg I (MW)	Stg II	Stg III	Stg IV
Ar. Pradesh	10	14	12	10
Assam	90	125	113	115
Manipur	10	10	10	10
Meghalaya	25	25	25	25
Mizoram	5	5	5	5
Nagaland	10	10	10	10
Tripura	15	12.2	21.2	30
Total	165	201	196	205

Regarding implementation of revised quantum, in the 227th OCCM it was updated that Mizoram has revised the quantum and only Manipur and Tripura left to implement.

Deliberation of 228th OCCM

Regarding mapping, utilities updated that the status remains the same as noted in 227th OCCM.

Regarding implementation of revised quantum, Manipur and Tripura to implement shortly.

Deliberation

Status as updated in 229th OCCM

Name of the State/utility	Installation of UFRs	Status of mapping
Ar. Pradesh	Completed	DoP Arunachal Pradesh stated that mapping of feeder at Lekhi SS (Industry feeder, stage 1) completed For rest of the feeders and substations, coordination with GE is

		underway and will be taken up gradually.
Assam	Completed	Completed
Manipur	UFR installed but not enabled as system integration work is pending with GE. To be completed by June'25 end	Mapping to be completed within one week
Meghalaya	Completed	Completed
Mizoram	Completed	Coordination with GE is underway for mapping. SCADA integration of Shihmui completed but mapping left due to fibre issue. To be resolved within one week
Nagaland	Completed	Completed
Tripura	Completed	Tripura apprised the forum that that mapping at Ambassa is completed but integration is left, OPGW being laid, to be completed by next OCCM.

Regarding implementation of revised quantum, Manipur informed that the loads have been identified will be implemented shortly. Tripura left to implement.

4.7 Monthly Review of LGBR

PARTICULARS (Peak Demand in MW as per LGBR vs Actual)	May-25 (LGBR)	May-25 (Actual)	Jun-25 (LGBR)	Jun-25 (Actual)	July-25 (LGBR)	July-25 (Actual)
Arunachal Pradesh	217	184	185	192	204	223
Assam	2629	2336	2586	2717	2787	2805
Manipur	247	248	247	242	229	233
Meghalaya	439	339	370	330	401	337
Mizoram	141	138	136	128	141	136

Nagaland	192	187	200	203	205	193
Tripura (exc. Bangladesh)	423	347	380	366	394	374
NER DEMAND (exc. Bangladesh)	4066	3606	3899	3947	4158	4088

PARTICULARS (Energy Requirement in MU as per LGBR vs Actual)	May-25 (LGBR)	May-25 (Actual)	Jun-25 (LGBR)	Jun-25 (Actual)	July-25 (LGBR)	July-25 (Actual)
Arunachal Pradesh	82	97.2	93	99	99	117.94
Assam	1108	1135.9	1312	1358	1543	1530.04
Manipur	94	96.9	105	88.3	91	99.54
Meghalaya	195	167.8	183	162.2	191	166.64
Mizoram	62	59.9	58	57.5	65	62.73
Nagaland	76	82.3	95	85.6	105	97.17
Tripura (excl. Bangladesh)	180	169.1	179	202.5	205	185.41
NER DEMAND (exc. Bangladesh)	1797	1809	2025	2054	2300	2260

LGBR projection for July'25, August'25 and September'25

PARTICULARS (Peak Demand in MW as per LGBR)	Aug-25 (MW)	Aug-25 (MU)	Sep-25 (MW)	Sep-25 (MU)	Oct-25 (MW)	Oct-25 (MU)
Arunachal Pradesh	214	111	212	103	199	102
Assam	2835	1521	3082	1562	2972	1355
Manipur	261	85	265	89	250	115
Meghalaya	384	190	349	166	424	259
Mizoram	164	59	162	62	163	77
Nagaland	203	92	201	94	205	100
Tripura (exc. Bangladesh)	381	237	409	196	390	199
NER DEMAND (exc. Bangladesh)	4265	2294	4396	2272	4386	2207

Deliberation

Forum noted the actual peak demand and energy consumption for the month of July viz;a;viz the LGBR projection.

Regarding the Power and energy projection for Tripura, SLDC Trioura requested to modify the demand figures as follow –

MU for Aug'25 to 210 MU, MW for Sep'25 to 381MW, MU for Sep'25 to 200MU and MW for Oct'25 to 370 MW.

SLDC Meghalaya stated that the MU figure for Oct'25 appears to be on higher side and needs to be revised.

4.8 Status Update and Revival Plan for Long-Outage NER Generators & Transmission Lines

The following NER generators & transmission lines have been under outage since long time. Considering the increasing demand trend and reliable power supply in the Region, respective utilities are requested to intimate the updated expected date of revival & take necessary action to restore the mentioned units & lines at earliest:

Generating Units:

As updated in 228th OCC meeting

S. N o.	Element Name	Outage time	Reason	Expected date (as updated in 228th OCCM)
1	Khandong Unit II	10:45 Hrs of 26-03-2022	Flash flood of reservoir causing submergence of the Khandong station	Khandong Unit II- July 2025
2	LTPS Unit 7 (20 MW)	17:08 hrs of 08-04-2024	High Vibration issue in Bearing Block-4	Spare not available, waiting for OEM

			turbine bearing of gas turbine	reply. Process may take significant time.
3	Baramura Unit 4	23:20 Hrs of 05-06-2024	gear box issue, leakage in auxiliary of gear box, display of control unit is not working due to suspected card issue	Baramura Unit 4. Tripura apprised that there is technical problem in rotor. Nonfunctional due to non-availability of gas. Forum advised to resolve rotor issue in the unit.

Transmission Lines:

As updated in 228th OCC meeting

S . N o .	Element Name	Outage time	Reason	Expected date (as updated in 228 th OCCM)
1	400 kV Imphal - Thoubal I	18-10-2021	Tripped on DP, ROW issue.	RoW issue. Law and order situation is fragile.
2	132 kV Jiribam-Rengpang	17-11-2023	Tripped on Earth fault	Tower shifting required due to NHIDCL work. Resurvey done in 1 st week of May'25. 16 towers affected. Revival will take significant time.

3	132kV Ningthoukhong - Churachandpu rckt 1	04-08- 2024	Z-1, 18.5 km, O/C	Elements under outage for more than 6 months and as elements is under intra-state jurisdiction, SLDC may follow their FTC procedure (SIO etc may be obtained) and copy may be given to NERLDC.
4	132kV Srikona – Panchgram	14-01- 2019	-	Survey complete, estimate in process

Deliberation

Forum requested the concerned utilities to provide the update through mail to NERPC.

4.9 Compliance with Annual Measurement of Harmonics, DC Injection, and Flicker as per CEA Regulations

As per the CEA (Technical Standards for Connectivity to the Grid) Regulations, Clause B1(4), Measurement of harmonic content, DC injection and flicker shall be done at least once in a year in presence of the parties concerned and the indicative date for the same shall be mentioned in the connection agreement;

Provided that in addition to annual measurement, if distribution licensee or transmission licensee or the generating company, as the case may be, desires to measure harmonic content or DC injection or flicker, it shall inform the other party in writing and the measurement shall be carried out within 5 working days”;

In accordance with this regulation, all Wind generating stations and generating stations using inverters connected to the grid are required to

perform this test annually and submit the test report to the relevant utility authorities. All utilities are requested to provide an update on the current status of test reports and outline their future testing plans as per CEA guidelines.

Deliberation of the 226th OCCM

NERLDC informed that a mail has been sent by NERPC to the concerned states to provide testing details and reports for the Solar, Wind and IBR based generators but the reply is still awaited.

Assam informed that the matter is being taken up with the Solar developers.

Mizoram informed that price quotation has been asked from various agencies to carry out the tests at Selrui Solar plant and the reply is still awaited.

Forum exhorted the Asam and Mizoram to provide the required details at the earliest to NERPC and NERLDC. Also, the forum requested state SLDCs to provide the charging clearance for Solar, wind and IBR based plants only after ensuring compliance with CEA regulations on testing of Harmonics, DC injection and flicker. SLDs agreed to the same.

Deliberation of the 227th OCCM

Assam and Mizoram informed that corresponding SLDCs are taking up the matter with Solar developers, but no input has been received yet.

MS NERPC exhorted Assam and Mizoram to ensure compliance with the regulations and timely conduct of the tests.

Deliberation of the 228th OCCM

MS NERPC requested Assam and Mizoram to provide update on conducting of tests to NERPC via email.

No update in this regard has been received yet. Assam and Mizoram may update

Deliberation

Forum requested the concerned utilities to provide the update through mail to NERPC.

4.10 Regarding non-submission of Demand forecast and Resource Adequacy (RA) data as per IEGC 2023

IEGC 2023 mandated that each SLDC and such other entities (like bulk consumers) which are directly connected to ISTS will carry out the demand estimation for both active and reactive power (as per clause 31.2(a), 31.2(b), 31.2(f)) along with the generation capacity availability (as per clause 31.4(b)) for meeting the projected demand and submit the same to respective RLDC for regional level forecast by method of aggregation, each RLDC would further furnish the regional level as well as state level forecast data to NLDC for computation for all India level demand and generation estimation (as per clause 31.2(g)).

The timeline for submitting these data to RLDC/NLDC would be as given in Table-I (as per IEGC clause 31.2(h)).

Table-I: Timeline for Demand Estimation

Daily demand estimation	10:00 hours of previous day
Weekly demand estimation (Monday to Sunday)	First working day of previous week
Monthly demand estimation	Fifth day of previous month
Yearly demand estimation	30th September of the previous year

In view of the above, it has been observed that Demand estimation and RA data is not being submitted regularly by:

- 1. Arunachal Pradesh SLDC in all the time horizons (i.e. Day-ahead, Week Ahead & Month Ahead) to NERLDC.***
- 2. Tripura SLDC in Week-Ahead & Month ahead to NERLDC***

To facilitate effective operational planning, forecast and RA data is essential. Hence, SLDC AP and SLDC Tripura is requested to submit the required forecast data as per the IEGC timeline mentioned above regularly.

Deliberation of the 228th OCCM

The forum exhorted DoP Ar. Pradesh and Tripura SLDCs to submit the required data as per the IEGC timeline.

Deliberation

Forum requested the concerned utilities to provide the update through mail to NERPC.

4.11 Conduct of annual self-audits and submission of reports in compliance with Reg. 56 of IEGC, 2023

NERLDC informed that The Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023 came into force with effect from 1st October 2023. In accordance with the Regulation 56 (Monitoring of Compliance) of IEGC, 2023, the relevant provisions pertaining to self-audits are quoted below:

Quote

(1) In order to ensure compliance, two methodologies shall be followed: (a) Self-Audit (b) Compliance Audit (2) Self –Audit: (a) All users, CTU, STUs, NLDC, RLDCs, RPCs and SLDCs, power exchanges, QCAs, SNAs shall conduct annual self-audits to review compliance of these regulations and submit the reports by 31st July of every year. (b) The self-audit report shall inter alia contain the following information with respect to non-compliance: (i) Sufficient information to understand how and why the non-compliance occurred; (ii) Extent of damage caused by such non-compliance; (iii) Steps and timeline planned to rectify the same; (iv) Steps taken to mitigate any future recurrence; (c) The self-audit reports by users, QCAs, SNAs shall be submitted to the concerned RLDC or SLDC, as the case may be. (d) The self-audit reports by power exchanges shall also be submitted to the NLDC. (e) The self-audit reports of NLDC, RLDCs, CTU, and RPCs shall be submitted to the Commission. The self-audit report of SLDC and STUs shall be submitted to the concerned SERC.

(f) The deficiencies shall be rectified in a time bound manner within a reasonable time. (g) The monitoring agency for users shall be the concerned RLDC or SLDC on the basis of their respective control area. The monitoring agency shall track the progress of compliances of users, and exceptional reporting for non-compliance shall be submitted to the appropriate Commission. (h) The monitoring agency for RLDC, NLDC, CTU and RPC shall be the Commission, and for STUs and SLDCs, shall be the concerned SERC. (i) The Regional Power Committee (RPC) in the region shall also continuously monitor the instances of non-compliance of the provisions of these regulations and endeavour to sort out all operational issues and deliberate on the ways in which such cases of non-compliance shall be prevented in future. The Member Secretary of respective RPCs may also report any unresolved issues to the Commission (j) The Commission may initiate appropriate proceedings upon receipt of report under sub-clauses (f) and (h) of this clause. (k) In case of non-compliance of any provisions of these regulations by NLDC, RLDCs, SLDCs, RPCs and any other person, the matter may be reported by any person to the Commission through filing of a petition. (3) Independent Third-Party Compliance Audit: The Commission may order independent third-party compliance audit for any user, power exchange, QCA, SNA, CTU, NLDC, RLDC and RPC as deemed necessary based on the facts brought to the knowledge of the Commission.

Unquote

Action Points by Users

- Conduct self-audit covering all applicable provisions of IEGC, 2023.
- Prepare report including details of any non-compliance and corrective measures.
- Submit the final self-audit report to NERLDC or SLDC depending on their respective control area by 31st July 2025.

For Users, the monitoring agency shall be the concerned RLDC or SLDC, depending on their respective control area. Monitoring agencies are responsible for tracking the progress of compliance with the IEGC, 2023 provisions by the Users under their jurisdiction. In cases where non-compliance is observed, the monitoring agency shall prepare and submit an

exceptional report detailing such instances to the appropriate Commission, ensuring timely regulatory oversight and corrective action.

Status:

Till date, self-audit reports have been received from NEEPCO (AGBPS, AgGBPS, Doyang HPS, Kameng HPS, Khandong Stg-2 HPS, Kopili HPS,

Self-Audit report status		
S. No	Users	Status
1	POWERGRID ISTS	Not Received
2	Mumbai Urja Marg Limited	Received
3	NETCL	Not Received
4	ENICL	Not Received
5	NER-II Transmission Ltd	Not Received
6	Kohima Mariani Transmission Ltd	Not Received
7	Nangalbibra Bongaigaon Transmission Limited	Not Received
8	POWERGRID ER NER Transmission Limited	Not Received
9	BgTPP (NTPC)	Not Received
10	Palatana (OTPC)	Not Received
11	AGBPS (NEEPCO)	Received
12	AgGBPS (NEEPCO)	Received
13	Panyor HPS(NEEPCO)	Received
14	Pare HPS (NEEPCO)	Received
15	Doyang HPS (NEEPCO)	Received
16	Kopili HPS (NEEPCO)	Received
17	Khandong Stg-2 (NEEPCO)	Received
18	Kameng HPS(NEEPCO)	Received
19	Loktak HPS (NHPC)	Not Received

Panyor HPS, Pare HPS, Monarchak) and MUML. Reports from other utilities are yet to be received

Deliberation

Forum requested the concerned utilities to provide the update through mail to NERPC.

4.12 Re-configuring RTUs of NEEPCO owned stations for reporting to NERLDC Guwahati

NERLDC Guwahati was inaugurated on 11th March 2024, following which NERLDC is operating under the Main-1 and Main-2 concept, with its establishments located in Shillong and Guwahati. At present, some NEEPCO stations report exclusively to NERLDC Shillong. In view of achieving 100% redundancy of Main-1 and Main-2 NERLDC, there is a critical need to reconfigure the RTUs to enable simultaneous reporting to NERLDC Guwahati.

On request, NEEPCO has configured all the stations for parallel except two stations which are mentioned as below:

1. **RC Nagar:** The RTU need to be configured in the IEC-60870-104 protocol to facilitate reporting to NERLDC Guwahati.
2. **Pare HEP:** The RTU need to be configured in the IEC-60870-104 protocol to facilitate reporting to NERLDC Guwahati.

NEEPCO is requested to provide an update on the current status of these actions.

Deliberation

Forum requested NEEPCO to provide the update through mail to NERPC.

4.13 Configuration of PGCIL stations for NERLDC Shillong and NERLDC Guwahati:

With help of PGCIL-NERTS and PGCIL-ULDC ten (10) stations out of sixteen (16) stations are reporting parallelly to NERLDC Shillong and NERLDC Guwahati.

NERLDC requested POWERGRID-NERTS to kindly extend further support to configure rest six (06) stations to enable them to report to NERLDC Shillong and NERLDC Guwahati. The status is tabulated below:

Sl. No.	Sub-station	Configuration required	Completion status	Bottleneck/issues faced
1	Misa	Creation of a new IEC-104 in the GE SAS Gateway. Or Alternatively old IEC-101 can be attempted to restore.	Pending	OEM support is required for Creation of new IEC-104 in the GE SAS Gateway Or Alternatively old IEC-101 can be attempted to restore.
2	Mokokchung	Creation of a new IEC-104 in the SAS Gateway.	Pending	OEM support is required for Creation of new IEC-104 in the GE SAS Gateway
3	Salakati	Network reconfiguration of D400 gateway-2 for RLDC	Pending	OEM support is required for network reconfiguration of one of the Gateways.
4	Silchar	Creation of a new IEC-104 in the GE SAS Gateway.	Pending	OEM support is required for Creation of new IEC-104 in the GE SAS Gateway

5	Roing	Network reconfiguration of One of SAS Gateway and router (post OPGW link completion).	Partially Completed	Only one Gateway is reporting at a time.
6	Tezu	Network reconfiguration of One of SAS Gateway and router (post OPGW link completion).	Partially Completed	Only one Gateway is reporting at a time.

The requests emails were sent to POWERGRID on 24th June 2025 and 16th July 2025.

POWERGRID is requested to provide an update on the current status of these actions.

Deliberation

Forum requested Powergrid to provide the update through mail to NERPC.

Annexure-I**List of Participants in the 229th OCC Meeting held on 22.08.2025**

SN	Name & Designation	Organization	Contact No.
1	Sh.Ojing Jerang, EE (E), SLDC	Ar. Pradesh	08974640622
2	Sh. Pranas Saha, DGM (O&M), AEGCL	Assam	09435371717
3	Sh. Tarali Deka, AGM (Tariff), AEGCL	Assam	09864981330
4	Sh. Nilarjana Kashyap, DM, SLDC	Assam	06000946480
5	Sh. Sanjib Kalita, DM (TRC), APDCL	Assam	08011100417
6	Sh. Arun Gogoi, DM, SLDC	Assam	09101488040
7	Sh. Anand Kumar, DM,SLDC	Assam	07002350891
8	Sh. Premjit Waikhem, JE, MSPCL	Manipur	07005348380
9	Sh. Abanta Kumar, JE (Elect.), MSPCL	Manipur	09862870901
10	Sh. T.Gidon, SE, SLDC	Meghalaya	06009094044
11	Sh. R.L.Kharkongor, EE,MePGCL	Meghalaya	09436163402
12	Sh. N.K.Singh, EE, Killing S/s	Meghalaya	09101242061
13	Sh. B.Samiam, EE, SLDC	Meghalaya	09862021883
14	Sh. K.W.Sohlang, EE (MOD), MePTCL	Meghalaya	07085057822
15	Sh. M.P.Tariang, EE (GD-II), MePGCL	Meghalaya	09402502174
16	Sh, H.Lalruatkima, SE,SLDC	Mizoram	09862925462
17	Sh. C.Daniela, EE	Mizoram	09774692357
18	Sh. Pulovi Sumi, SDO	Nagaland	08575748180
19	Sh. Namheu Khate, EE (T)	Nagaland	09436000800
20	Sh. Alex E.Ngullie, JE, SLDC	Nagaland	08837080321
21	Sh. Anil Debbarma, DGM, SLDC, TSECL	Tripura	09612559250
22	Sh. Debabrata Pal, Sr.Mgr, TSECL	Tripura	09436500244
23	Smt. Mamami Talukdar, GM (T)	NEEPCO	09435339690
24	Sh. Manas Pratim Sharma, Sr.Mgr	NEEPCO	08729901871
25	Sh. S.P.Barnwal, CGM (SL)	NERLDC	09433041812
26	Sh. Biswajit Sahu, CGM (SO)	NERLDC	09425409539
27	Sh. Sajan George, CGM (I/c)	NERLDC	09910378041
28	Sh. Babul Roy, GM (SO)	NERLDC	09436335377
29	Sh. Sunil Singha, Ch.Manager	NERLDC	08414865365
30	Sh. Sakal Deep, DM	NERLDC	09774528218
31	Sh. Sachin Singh, Manager	NERLDC	08826991911
32	Sh. Sumit Kumar, Mgr (MO)	NERLDC	07005371729
33	Sh. Yogendra Singh, Engineer	NERLDC	07005587509
34	Sh. Kishore Kalita, AM (SO)	NERLDC	09101178340
35	Sh. Ashim Paul, DGM	PGCIL	09436602688

36	Sh. Manash Jyoti Baishya, Ch.Mgr	PGCIL	09435555740
37	Sh. Mitangshu Saha, Lead-STG	OTPC	07085310211
38	Sh. Pravin Kumar Sahu, AGM,BgTPS	NTPC	09424141694
39	Sh. D.P.Yadav, SM (E)	NHPC	09800003465
40	Sh. Samriddhi Gogoi, AM	INDIGRID	09101330587
41	Sh. Jyotirmoy Barman, DM	NETC	07002036191
42	Sh. Niranjan Rabha, DM	NETC	07002022736
43	Sh. Rajeev Keshari, DM	KMTL	08119051439
44	Sh. K.B.Jagtap, Member Secretary	NERPC	-
45	Sh. Veerandranath Muncha, Director	NERPC	07358529099
46	Sh.Lenin B, Dy.Director	NERPC	08335905973
47	Smti Kanchan Chauhan, Dy.Director	NERPC	08375070150
48	Sh. Vikash Shankar, Asst. Director	NERPC	09455331756

उ.पू.क्षे ग्रिड प्रदर्शन

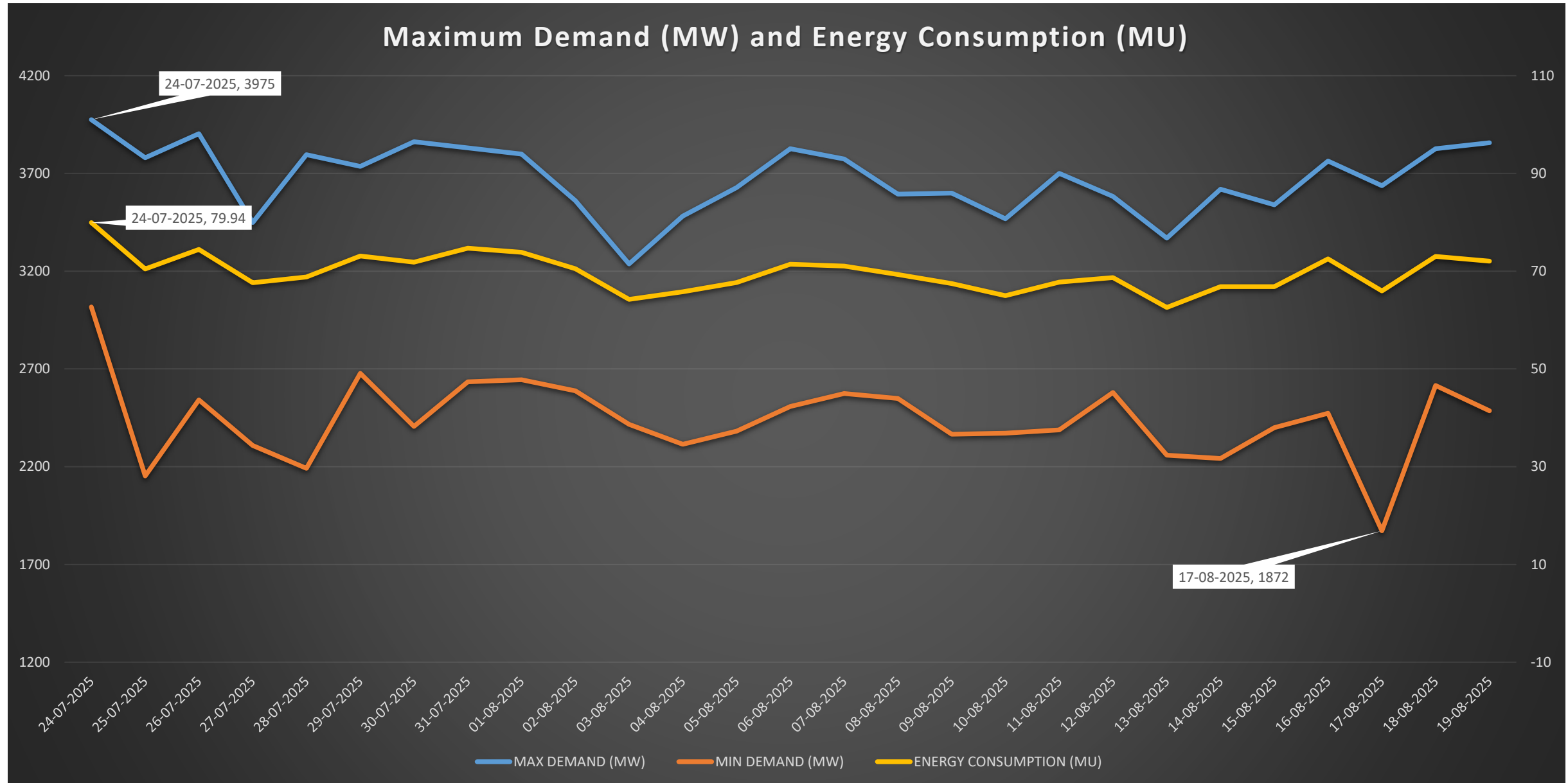
NER GRID PERFORMANCE

For the month Jul'25-Aug'25

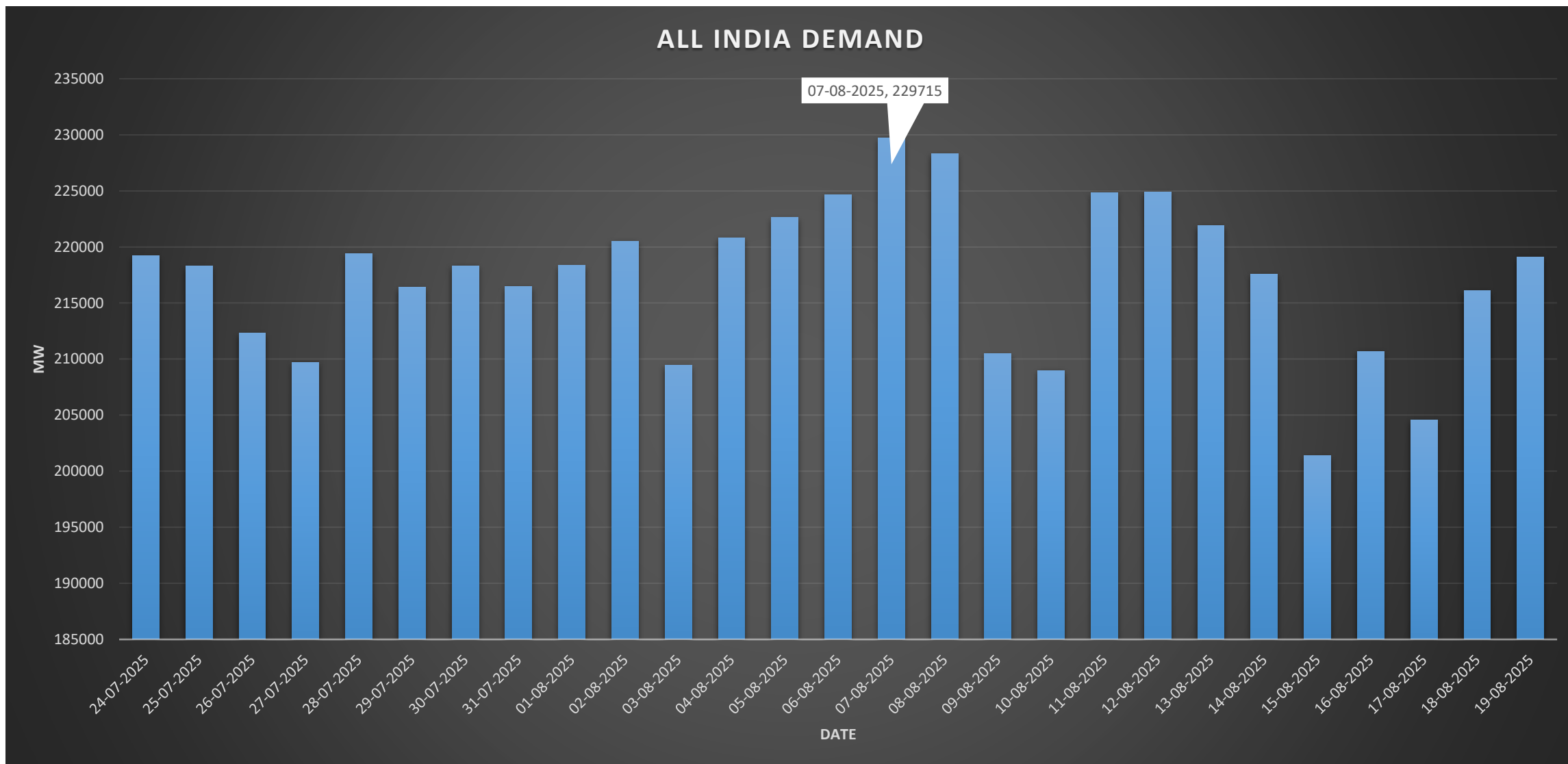
North-Eastern Regional Load Despatch Centre
Grid-India, Shillong



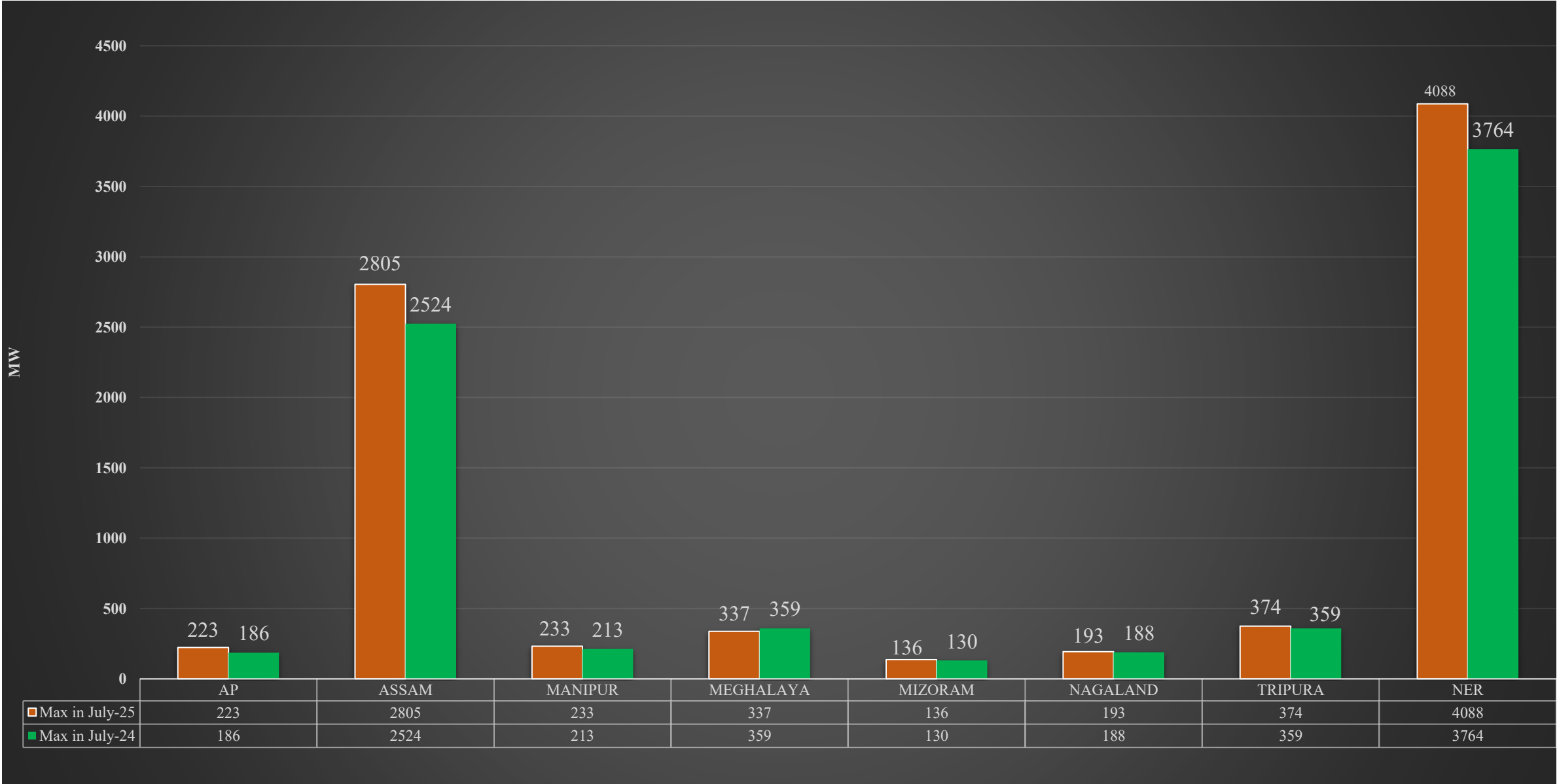
Maximum MW and MU in NER: 24th Jul'25– 19th Aug'25



Maximum All India Demand: 24th Jul'25– 19th Aug'25

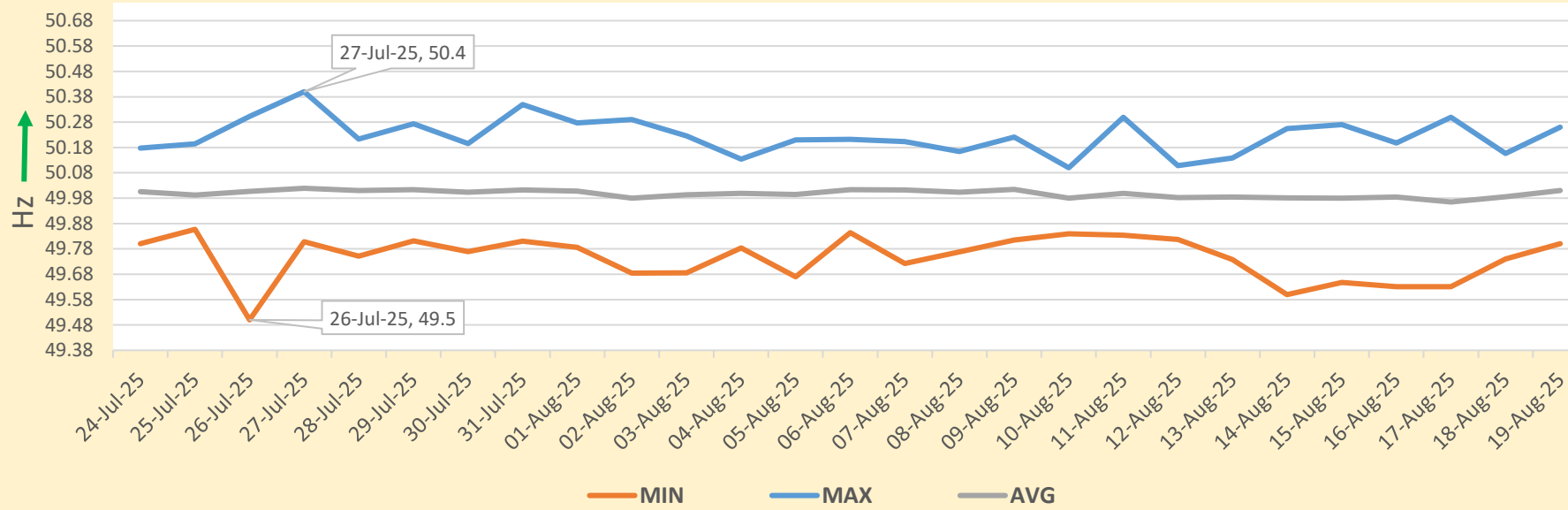


Y-o-Y Maximum Demand Met



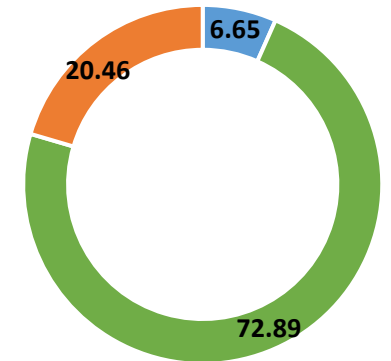
Frequency Profile

FREQUENCY PROFILE FOR 24th Jul'25- 19th Aug'25



50.40 Hz on 27-Jul-2025: Due to over injection of SR RE by 1000 MW and Underdrawal of 2500 MW by all region combined.

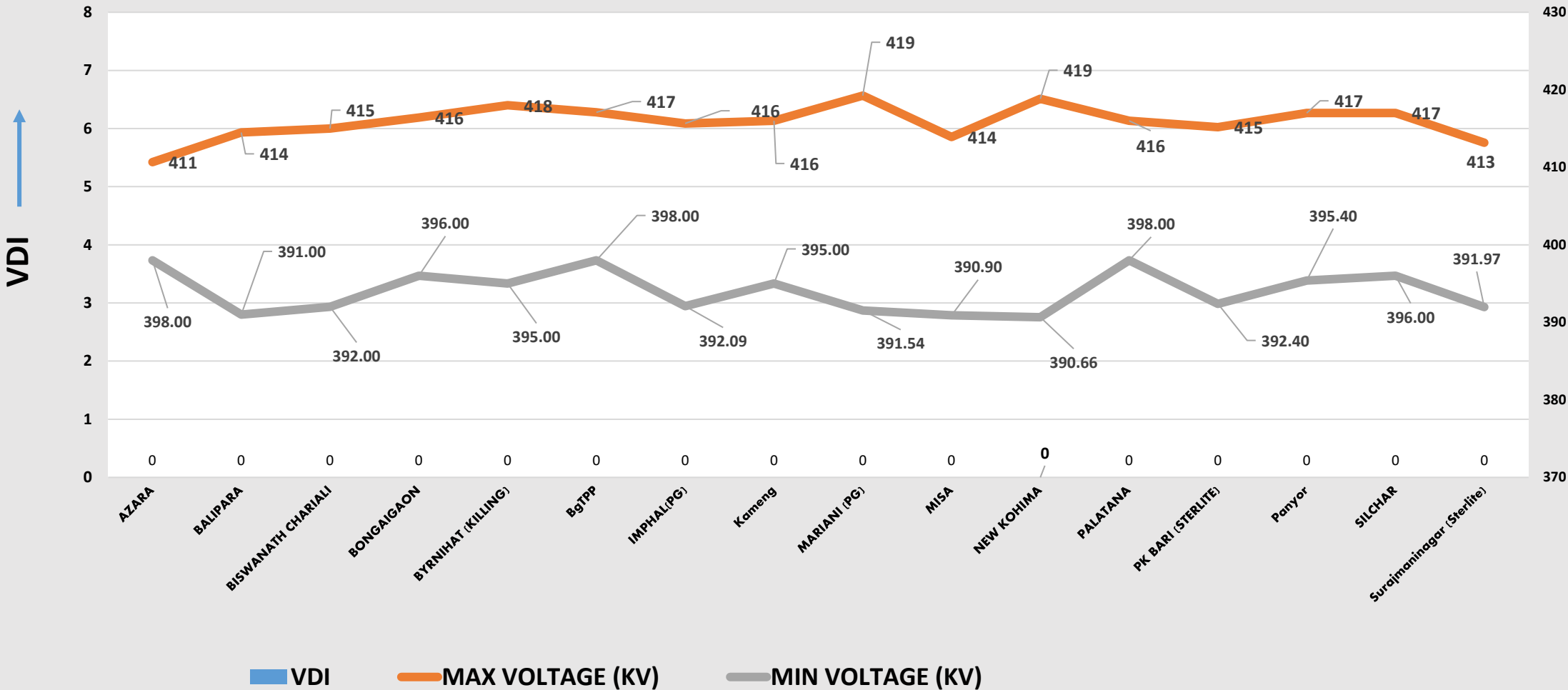
49.50 Hz on 26-Jul-2025: Due to sudden drop in Wind Generation in All India Grid and less availability of margin.



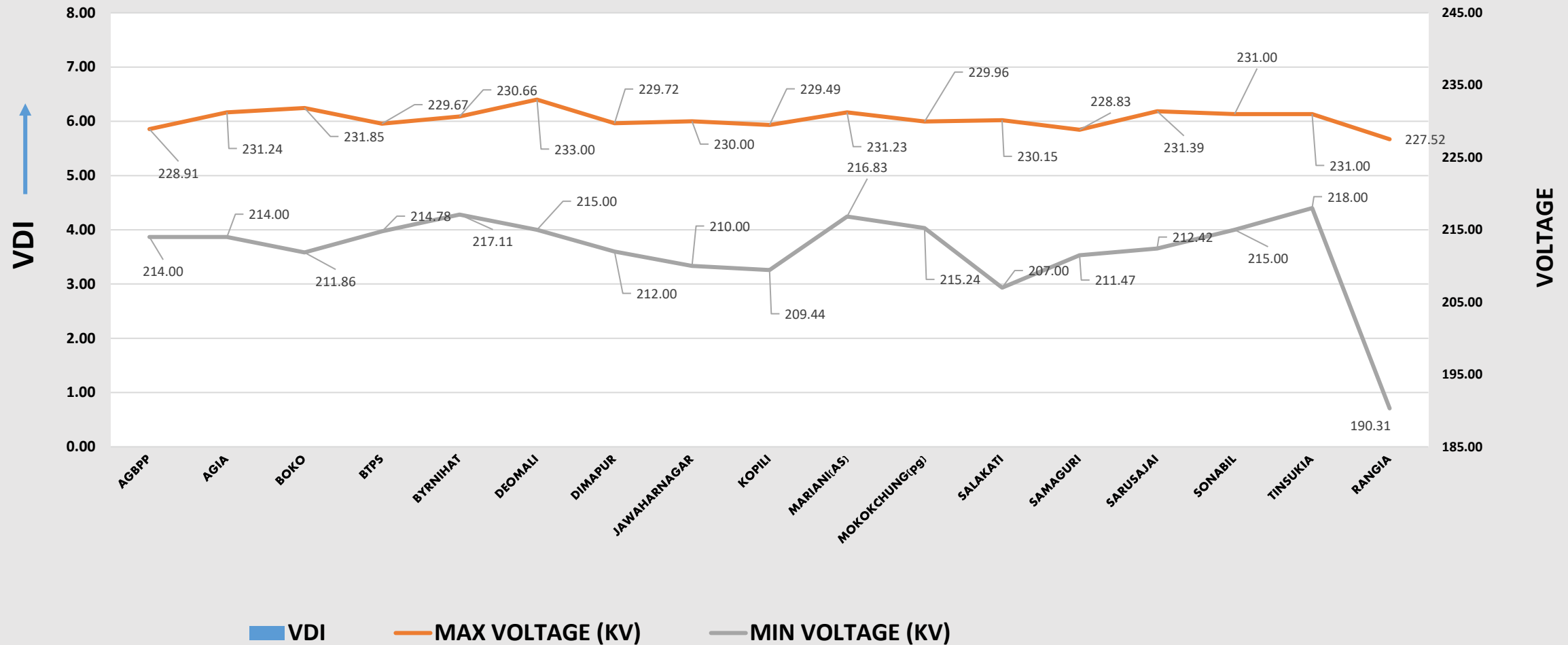
■ f < 49.9 ■ 49.9-50.05 ■ f > 50.05

VDI (400 KV) for July 2025

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



VDI (220 KV) for July 2025



Projected Hydro Generation Availability

Plants	Reservoir Level in meters (as on 20/08/2025)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong	722.90	177.62	0.55	323
Kopili	604.55	61.00	4.00	15
Doyang	319.00	22.00	1.62	14
Loktak	767.87	92.00	2.47	37

No. of GD	38
No. of GI	0

Grid Disturbance during July'25

SI No	Area Affected	GD	Date & Time
1	Grid Disturbance in Chiephobozou, Wokha and Sanis areas of Nagaland Power System	GD-I	01-07-2025 15:32 Hrs
2	Grid Disturbance in Leshka HEP of Meghalaya Power System	GD-I	01-07-2025 22:48 Hrs
3	Grid Disturbance in Haflong(AS) area of Assam Power System	GD-I	04-07-2025 04:06 Hrs
4	Grid Disturbance in Leshka HEP of Meghalaya Power System	GD-I	04-07-2025 12:31 Hrs
5	Grid Disturbance in Khupi & Tenga areas of Arunachal Pradesh Power System	GD-I	04-07-2025 22:34 Hrs
6	Grid Disturbance in Turial HEP of Mizoram Power System	GD-I	06-07-2025 12:45 Hrs
7	Grid Disturbance in Kohima, Wokha, Sanis, Zhadima, Kiphire and Meluri areas of Nagaland power system	GD-I	10-07-2025 14:01 Hrs
8	Grid Disturbance in Zhadima, Chiephobozou, Wokha and Sanis areas of Nagaland Power System	GD-I	11-07-2025 07:02 Hrs
9	Grid Disturbance in Karong area of Manipur Power System	GD-I	11-07-2025 11:30 Hrs

No. of GD	38
No. of GI	0

Grid Disturbance during July'25

SI No	Area Affected	GD	Date & Time
10	Grid Disturbance in Tipaimukh area of Manipur Power System	GD-I	13-07-2025 12:02 Hrs
11	Grid Disturbance in Deomali area of Arunachal Pradesh Power System	GD-I	14-07-2025 10:26 Hrs
12	Grid Disturbance in Meluri, Kiphire and LHEP areas of Nagaland Power System	GD-I	14-07-2025 12:14 Hrs
13	Grid Disturbance in Tenga & Dikshi HEP of Arunachal Pradesh Power System	GD-I	14-07-2025 15:41 Hrs
14	Grid Disturbance in Zhadima, Chiephobozou, Wokha and Sanis areas of Nagaland Power System	GD-I	15-07-2025 14:43 Hrs
15	Grid Disturbance in Amrit area of Meghalaya Power System	GD-I	16-07-2025 04:24 Hrs
16	Grid Disturbance in Central Assam(Depota section) of Assam Power System	GD-I	16-07-2025 14:32 Hrs
17	Grid Disturbance in Central Assam(Depota section) of Assam Power System	GD-I	16-07-2025 15:18 Hrs
18	Grid Disturbance in Rengpang area of Manipur Power System	GD-I	19-07-2025 12:26 Hrs

No. of GD	38
No. of GI	0

Grid Disturbance during July'25

SI No	Area Affected	GD	Date & Time
19	Grid Disturbance in Rengpang area of Manipur Power System	GD-I	20-07-2025 11:59 Hrs
20	Grid Disturbance in Umiam Stg III and New Umtru area of Meghalaya Power System	GD-I	21-07-2025 16:44 Hrs
21	Grid Disturbance in Rengpang area of Manipur Power System	GD-I	22-07-2025 10:31 Hrs
22	Grid Disturbance in Mynkre area and Leshka HEP of Meghalaya Power System	GD-I	24-07-2025 10:53 Hrs
23	Grid Disturbance in Zhadima, Chiephobozou, Wokha and Sanis areas of Nagaland Power System	GD-I	24-07-2025 23:52 Hrs
24	Grid Disturbance in Nalbari, Bornagar, Rangia, Siphajhar, Tangla, Amingaon, Nathkuchi, Kamalpur, Hajo, AIIMS and Sishugram areas of Assam Power System	GD-I	25-07-2025 05:29 Hrs
25	Grid Disturbance in Kolasib, Bairabi and Tural area of Mizoram Power System Sihhmui area of Mizoram Power System	GD-I	25-07-2025 14:10 Hrs
26	Grid Disturbance in Kolasib, Bairabi and Tural area of Mizoram Power System	GD-I	26-07-2025 11:50 Hrs
27	Grid Disturbance in Rangia, Amingaon, Kamalpur, Sipajhar, Tangla, Nalbari and Nathkuchi areas of Assam Power System	GD-I	26-07-2025 12:17 Hrs

No. of GD	38
No. of GI	0

Grid Disturbance during June'25

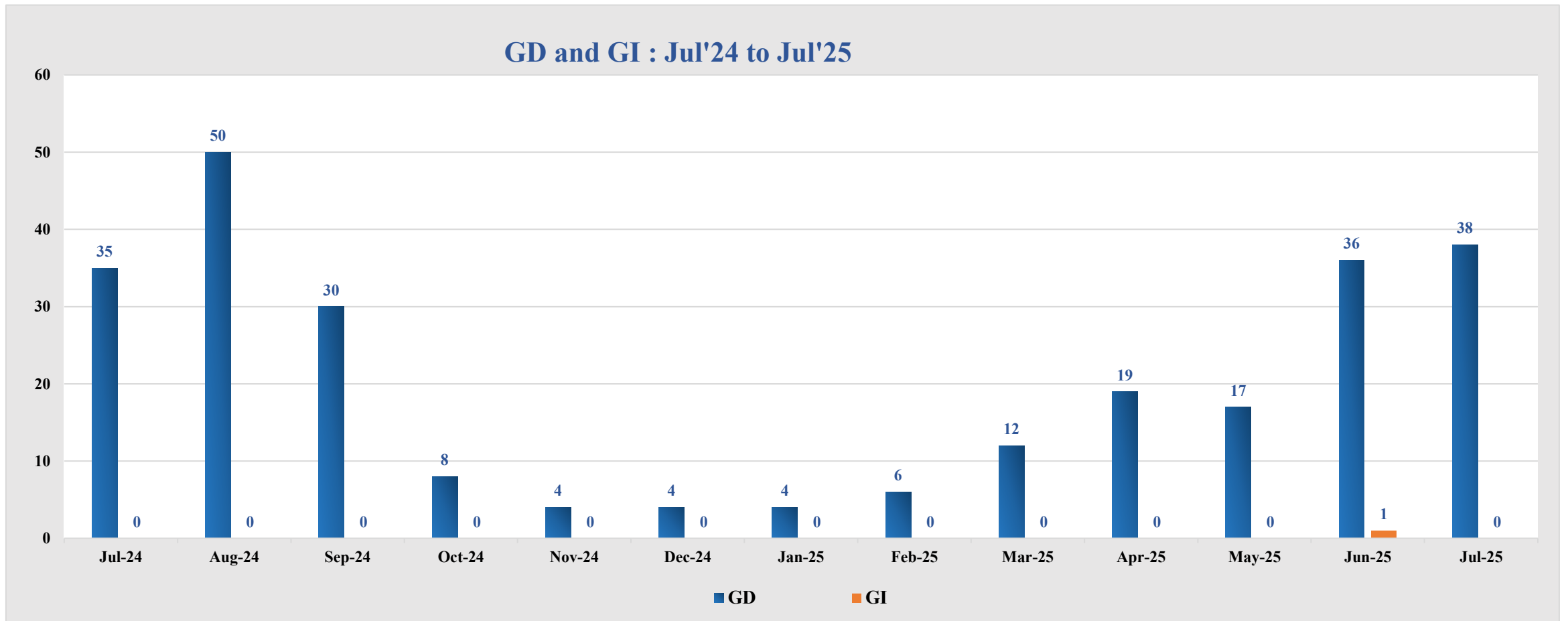
SI No	Area Affected	GD	Date & Time
28	Grid Disturbance in Kohima, Sanis, Wokha, Chiephobozou and Zhadima areas of Nagaland Power System	GD-I	26-07-2025 14:08 Hrs
29	Grid Disturbance in Daporijo, Basar and Along area of Arunachal Pradesh Power System	GD-I	27-07-2025 04:58 Hrs
30	Grid Disturbance in Tuirial HEP of Mizoram Power System	GD-I	27-07-2025 00:55 Hrs
31	Grid Disturbance in Kolasib & Bairabi HEP of Mizoram Power System	GD-I	27-07-2025 01:18 Hrs
32	Grid Disturbance in Kolasib & Bairabi HEP of Mizoram Power System	GD-I	27-07-2025 08:24 Hrs
33	Grid Disturbance in Kolasib & Bairabi HEP of Mizoram Power System	GD-I	27-07-2025 13:24 Hrs
34	Grid Disturbance in Tuirial HEP area of Mizoram Power System	GD-I	28-07-2025 19:44 Hrs
35	Grid Disturbance in Rengpang area of Manipur Power System	GD-I	29-07-2025 10:03 Hrs
36	Grid Disturbance in Dharmanagar area of Tripura and Dullavcherra area of Assam Power System	GD-I	20-07-2025 13:02 Hrs
37	Grid Disturbance in Rengpang area of Manipur Power System	GD-I	30-07-2025 11:44 Hrs
38	Grid Disturbance in Dibrugarh area of Assam Power System	GD-I	30-07-2025 07:04 Hrs

No. of GD	38
No. of GI	0

Grid Incidence during July'25

SI No	Affected Substation	GI	Date & Time
NIL			

Grid Disturbance/Incidences for last 12 Months



OCC approved shutdown availing status for the month of July 2025

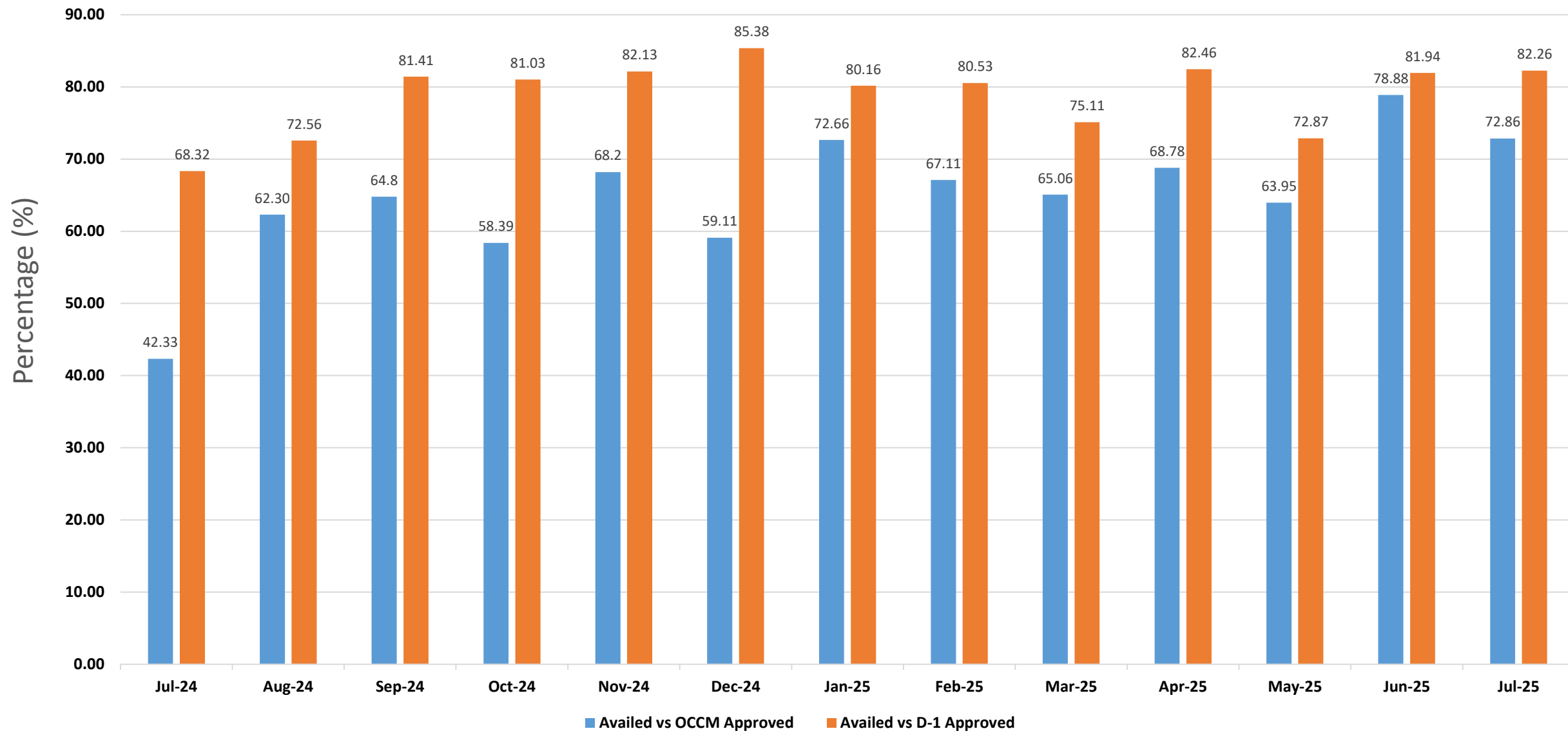
SUMMARY OF NER OUTAGE

MONTH	PLANNED IN OCC	APPROVED IN D-1	AVAILED IN REAL TIME	NOT AVAILED	AVAILED Vs PLANNED %	AVAILED Vs APPROVED %	DEFERRED BY RLDC DUE TO SYSTEM CONSTRAINT
July 25	140	124	102	21	72.86	82.26	3

Shutdown Statistics

	OCC Approved	D-1 Approved	Availed	Not Availed	RLDC Deferred
NER	140	124	102	21	3
NERTS	55	48	40	8	2
ASSAM	67	60	53	6	1
MANIPUR	0	0	0	0	0
MEGHALAYA	6	5	5	0	0
NAGALAND	0	0	0	0	0
MIZORAM	0	0	0	0	0
TRIPURA	0	0	0	0	0
Arunachal Pradesh	1	1	0	1	0
NETC	0	0	0	0	0
KMTL	0	0	0	0	0
NEEPCO	1	0	0	0	0
NTPC	0	0	0	0	0
OTPC	10	10	4	6	0
INDIGRID	0	0	0	0	0
NHPC	0	0	0	0	0

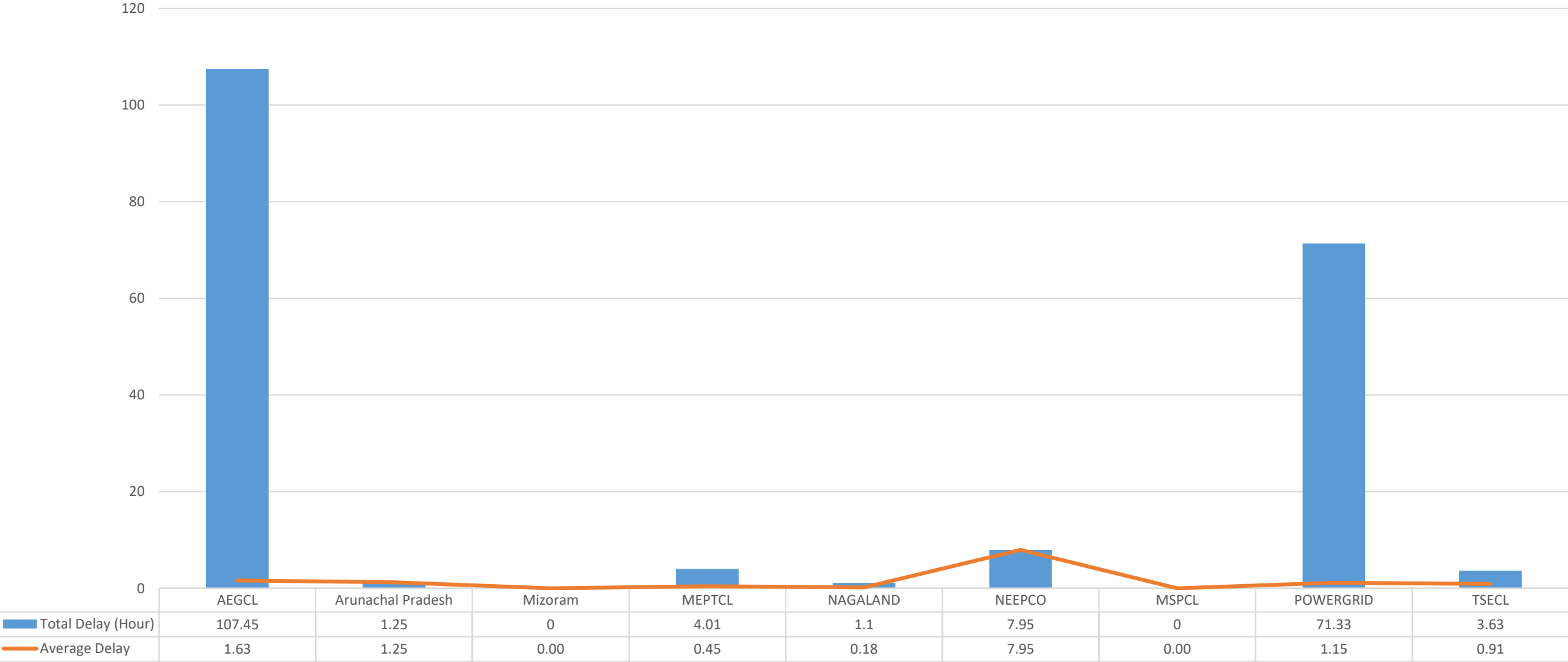
Approved Shutdown availing trend in percentage



Shutdown Delay statistics

Comparison of delay in returning Shutdown by Entities for the Month of July 2025

Deviation from Scheduled SD Return Time – July’25



Total Delay (Hour) Average Delay

Shutdown Delay statistics

SL.	Availing Utility	Total SD	Total Delay (Hour)	Average Delay
1	AEGCL	66	107.45	1.63
2	Arunachal Pradesh	1	1.25	1.25
3	Mizoram	2	0	0.00
4	MEPTCL	9	4.01	0.45
5	NAGALAND	6	1.1	0.18
6	NEEPCO	1	7.95	7.95
7	MSPCL	3	0	0.00
8	POWERGRID	62	71.33	1.15
9	TSECL	4	3.63	0.91

RMSE of Load forecast for July'25

RMSE of the forecasted Demand by SLDCs Vs Actual Demand met as per IEM by SLDCs :

$$RMSE = \sqrt{\frac{\sum_{i=1}^N (Predicted_i - Actual_i)^2}{N}}$$

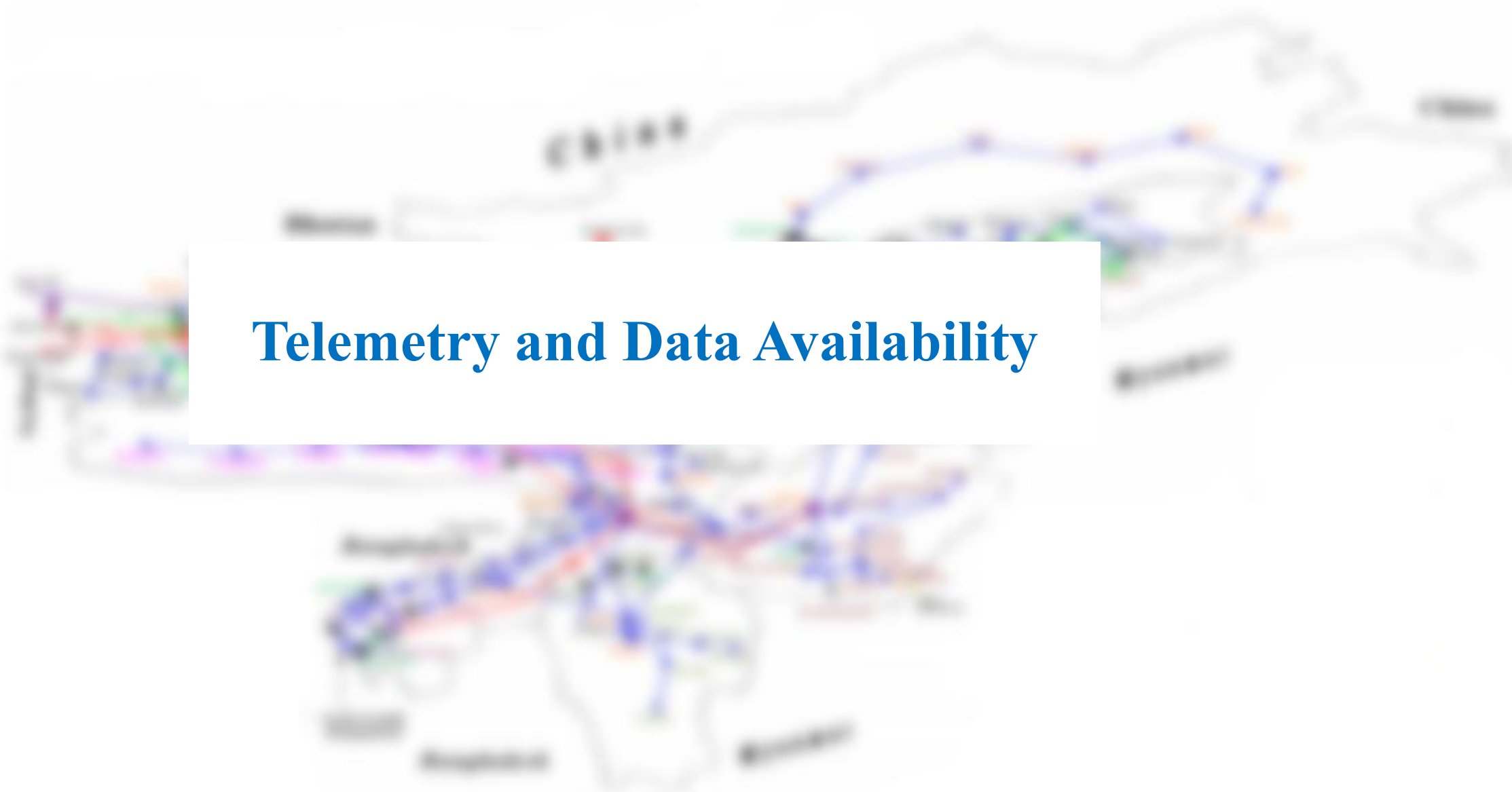
Where,

Predicted_i = Forecasted Value

Actual_i = Actual value

N = Total number of observations.

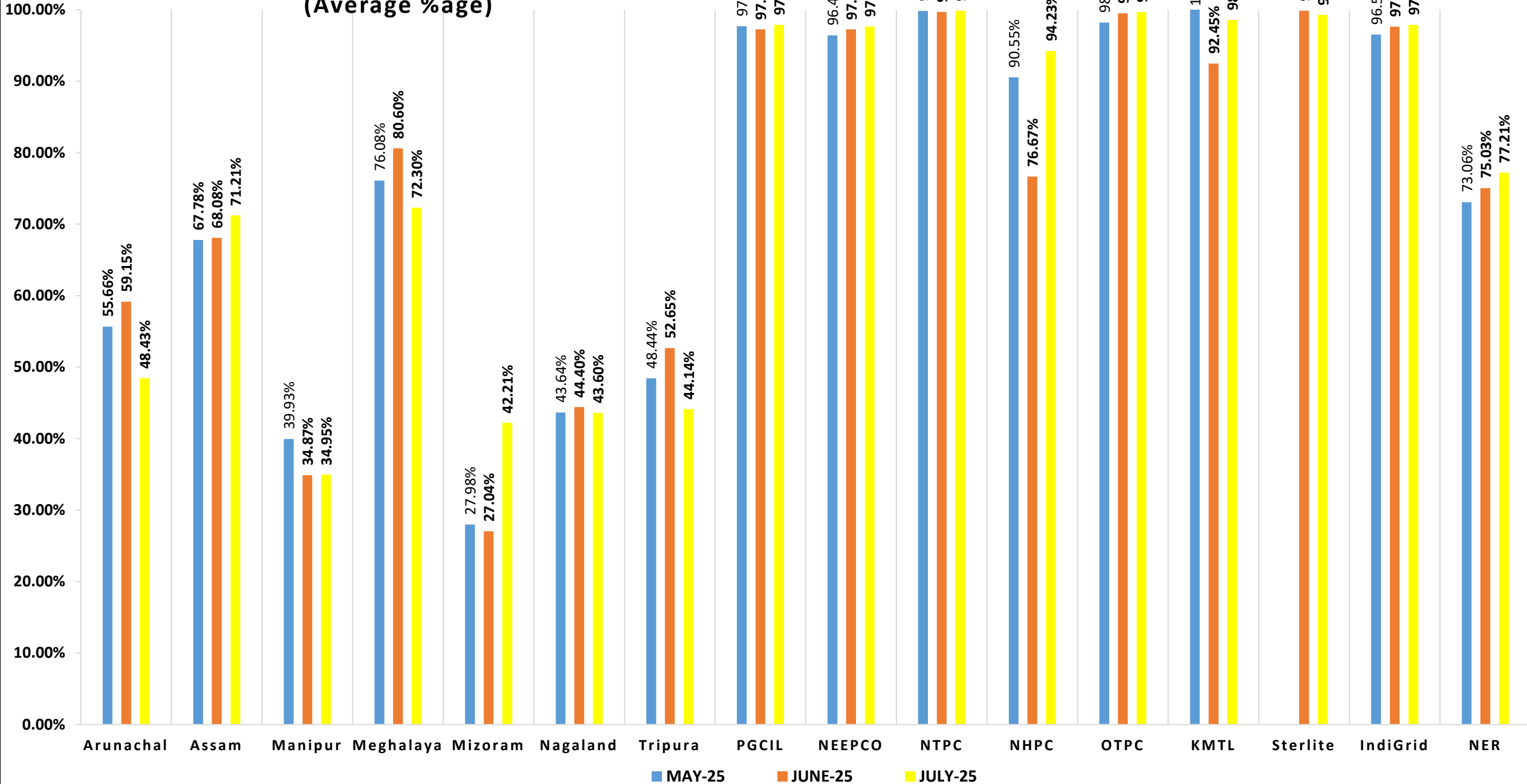
	Arunachal Pradesh	Assam	Manipur	Meghalaya	Mizoram	Nagaland	Tripura
Median	23	11	08	06	18	10	12



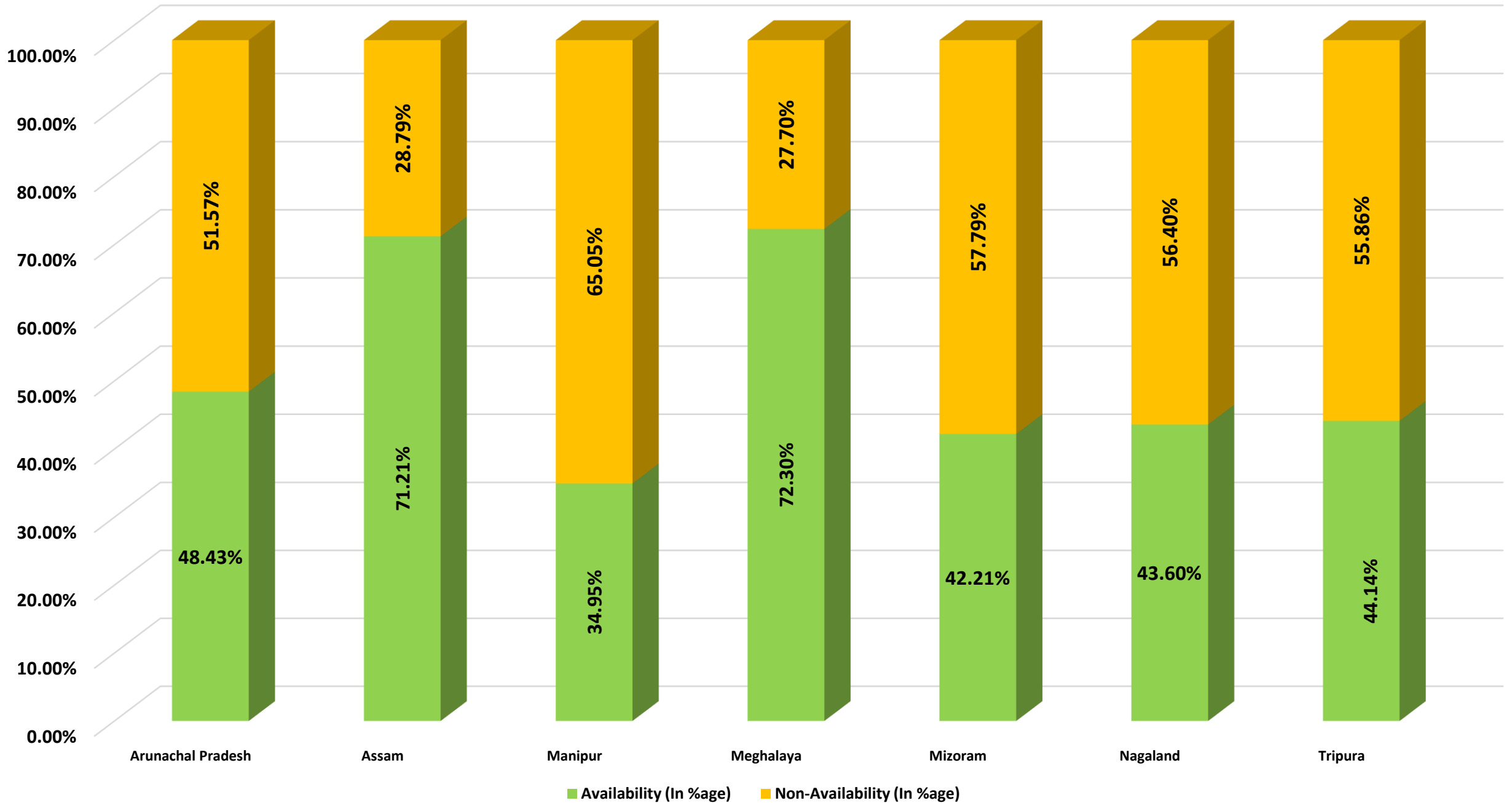
Telemetry and Data Availability

Telemetry Statistics for the month of July 2025						
Sl. No.	Utility	Average Total Percentage	Average Analog Percentage	Average Digital Availability	Average RTU Availability	Target as per 30th NeTEST MOM
1	PGCIL	97.88	97.3	98.16	98.14	
2	NEEPCO	97.65	97.43	97.79	99.2	
3	NTPC	99.85	99.93	99.8	99.95	
4	NHPC	94.23	96.2	93.18	98.94	
5	OTPC	99.67	98.97	100	99.99	
6	KMTL	98.55	98.57	98.54	99.95	
7	Sterlite	99.27	99.25	99.28	99.25	
8	Indigrid	97.87	96.06	98.62	99.99	
9	Arunachal Pradesh	48.43	48.98	48.08	47.78	85
10	Assam	71.21	72.4	70.34	78.23	85
11	Manipur	34.95	38.73	32.7	40.65	70
12	Meghalaya	72.3	82.73	64.49	88.5	80
13	Mizoram	42.21	50.48	35.85	73.75	60
14	Nagaland	43.6	41.99	44.58	55.69	70
15	Tripura	44.14	48.27	41.46	50.87	80

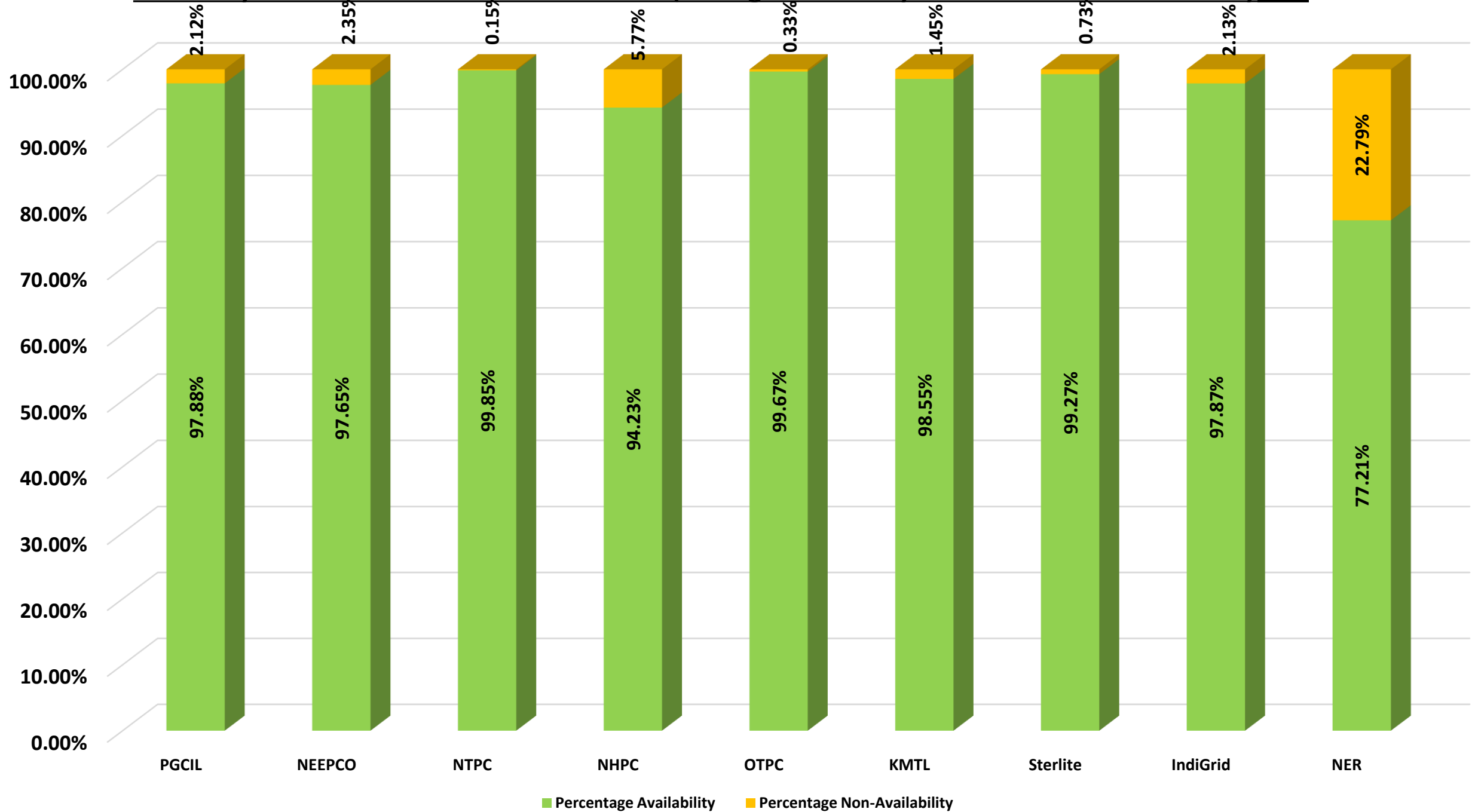
**Comparsion of Telemetry Availabilty Statistics
(Average %age)**



Telemetry Statistics for NER States(Average availability of data for the month of July '25)



Telemetry Statistics for Central Sector of NER (Average availability of data for the month of July '25)



Evacuation Issue of Loktak HEP Generation under different scenarios

NERLDC

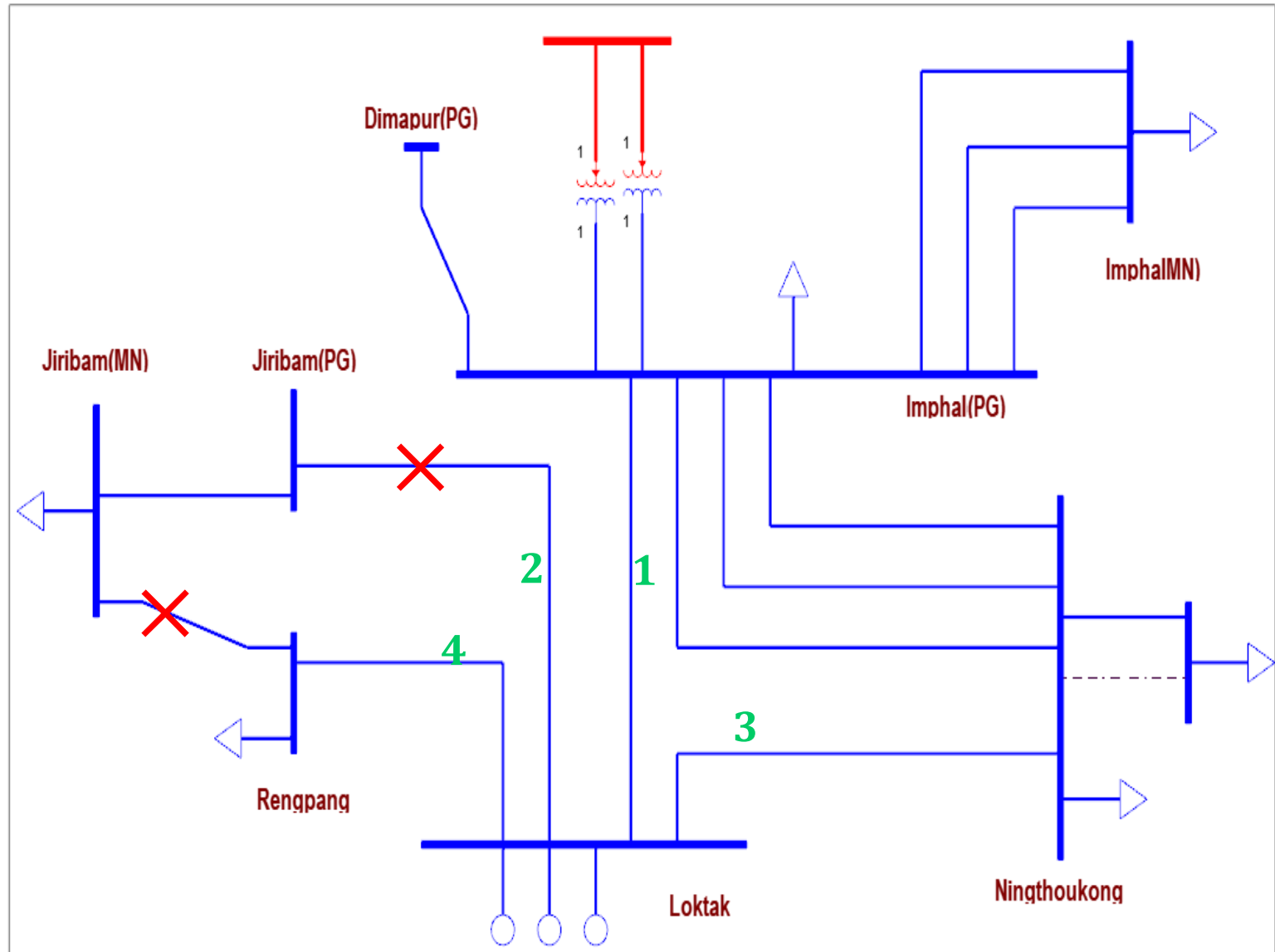
Evacuation Path for Loktak HEP

- **Evacuation Path of Loktak HEP:**

1. 132 kV Loktak-Imphal(PG)
2. 132 kV Loktak-Jiribam(PG)
3. 132 kV Loktak-Ningthoukong
4. 132 kV Loktak-Rengpang line, **132 kV Rengpang-Jiribam(MN) line is under outage condition since 17.11.2023.**

- **Observation:**

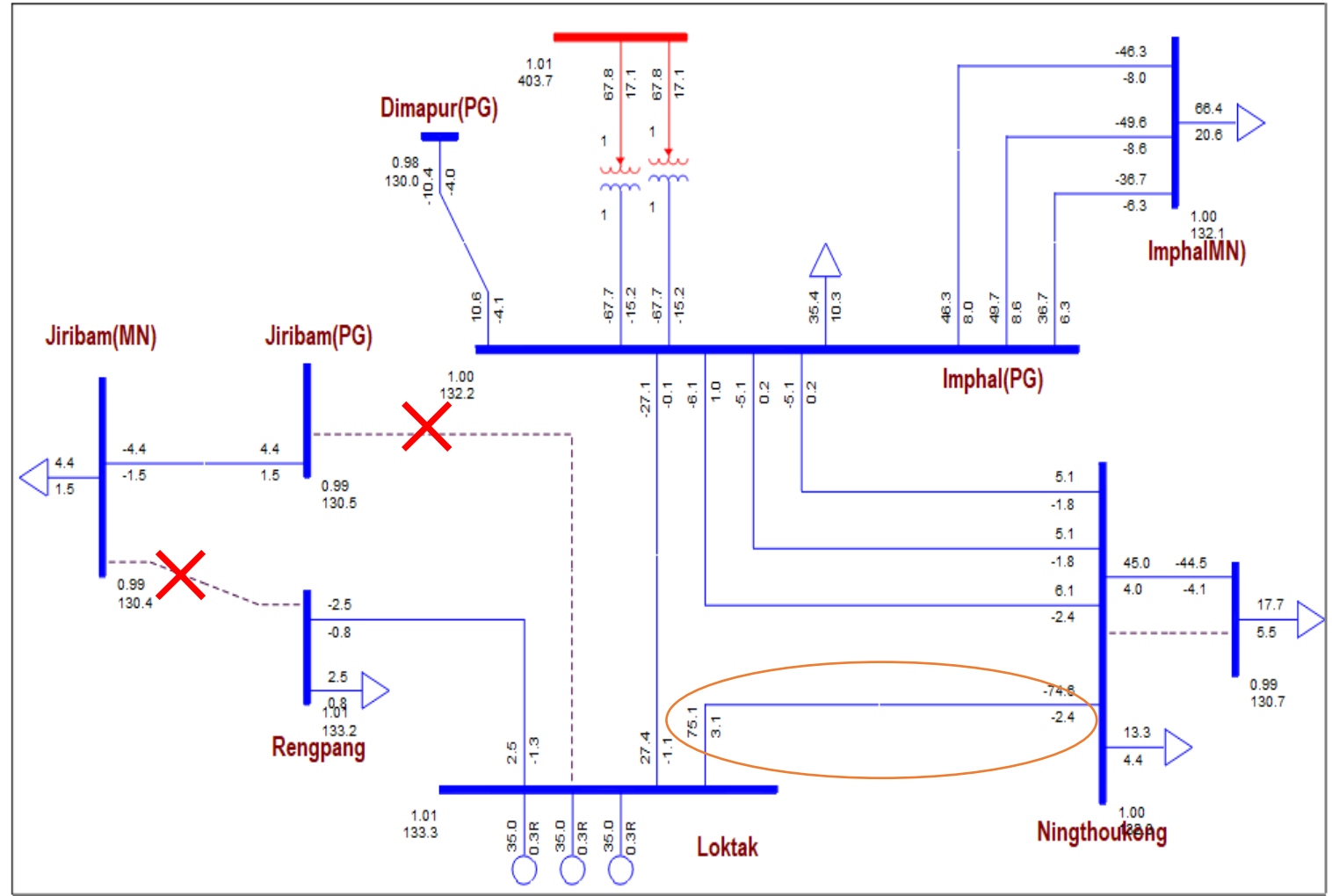
- The 132 kV Loktak–Jiribam line has been reconducted with an ampacity of 600 A, and the 132 kV Loktak–Imphal (PG) line has been reconducted with an ampacity of 800 A by PGCIL. However, the bay upgradation at Loktak has not yet been carried out by NHPC.
- As a result, the effective transfer capability of the line is restricted by the existing bay equipment at Loktak, which can handle only about 75 MW.



X -Under outage condition

Case study: Tripping of 132 kV Loktak–Jiribam Line and Impact on Loktak HEP Evacuation

- **Event on 08-08-2025:** 132 kV Loktak–Jiribam line tripped due to a landslide at location 82 from Jiribam
- **Observation:** high loading in 132kV Loktak – Ningthoukhong line.
- **Remedial measures:** Generation from Loktak HEP was reduced due to the following constraints:
 - Non-availability of the 132 kV Loktak–Rengpang–Jiribam (MN)–Jiribam (PG) link since 17.11.2023.
 - As a result, Loktak generation had to be restricted to about 95 MW.Reduction of Loktak Generation, due to the following issues

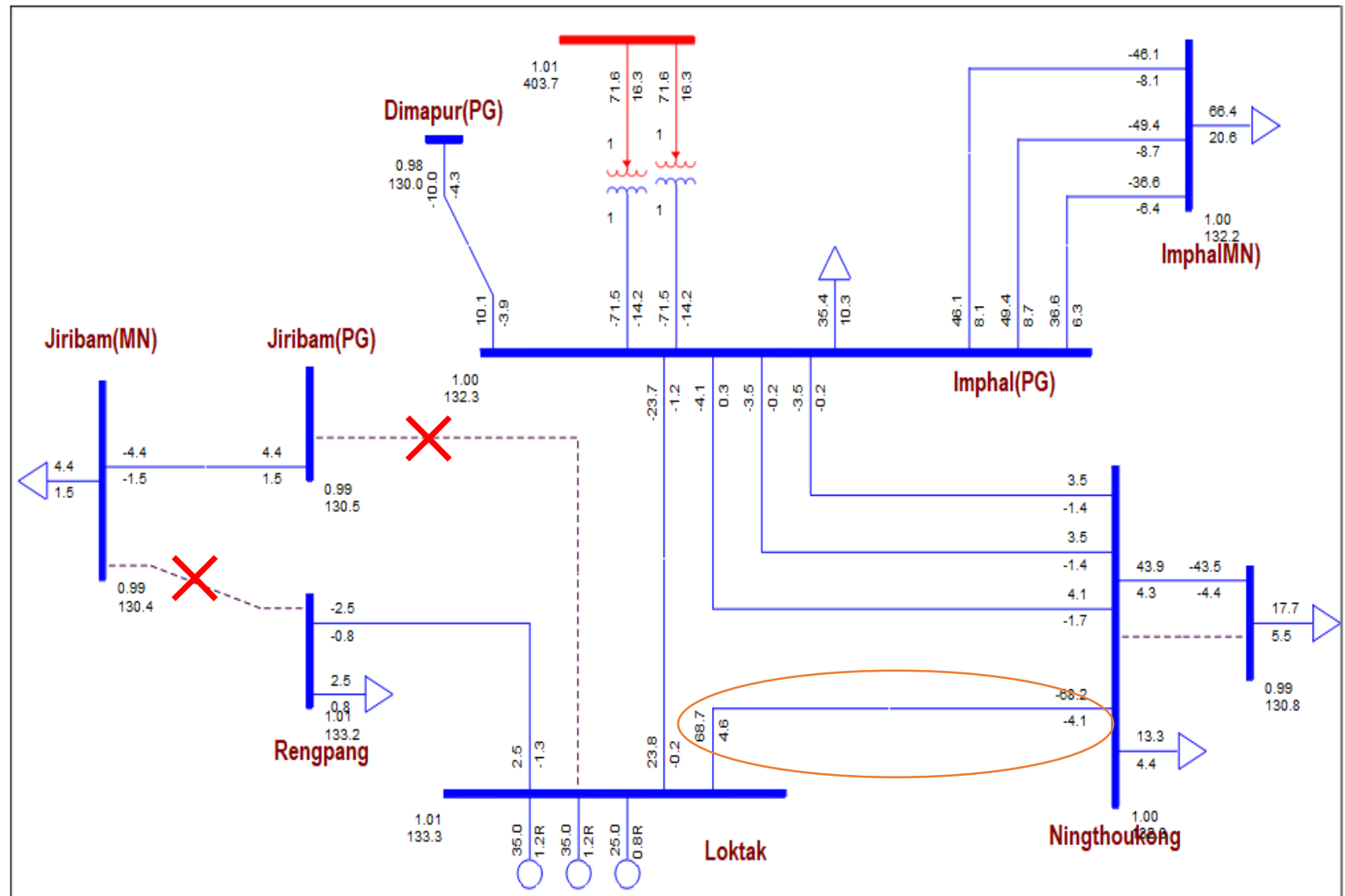


X -Under outage condition

Case study: Tripping of 132 kV Loktak–Jiribam Line and Impact on Loktak HEP Evacuation

Action: Generation from Loktak HEP was reduced by 10 MW

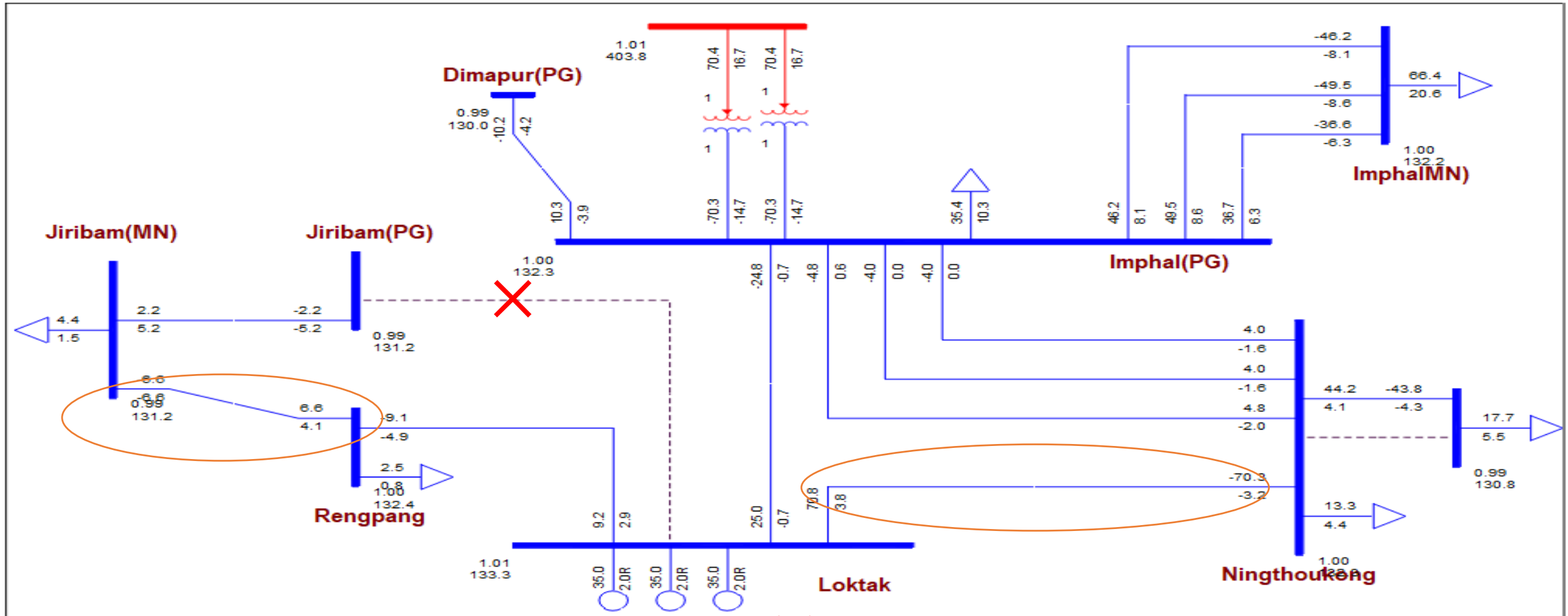
Observation: This resulted in an approximate load relief of 6 MW on the 132 kV Loktak–Ningthoukhong line.



✗ -Under outage condition

Case study: Tripping of 132 kV Loktak–Jiribam Line

Loktak HEP Generation : 105 MW and 132kV Jiribam – Rengpang line is in service

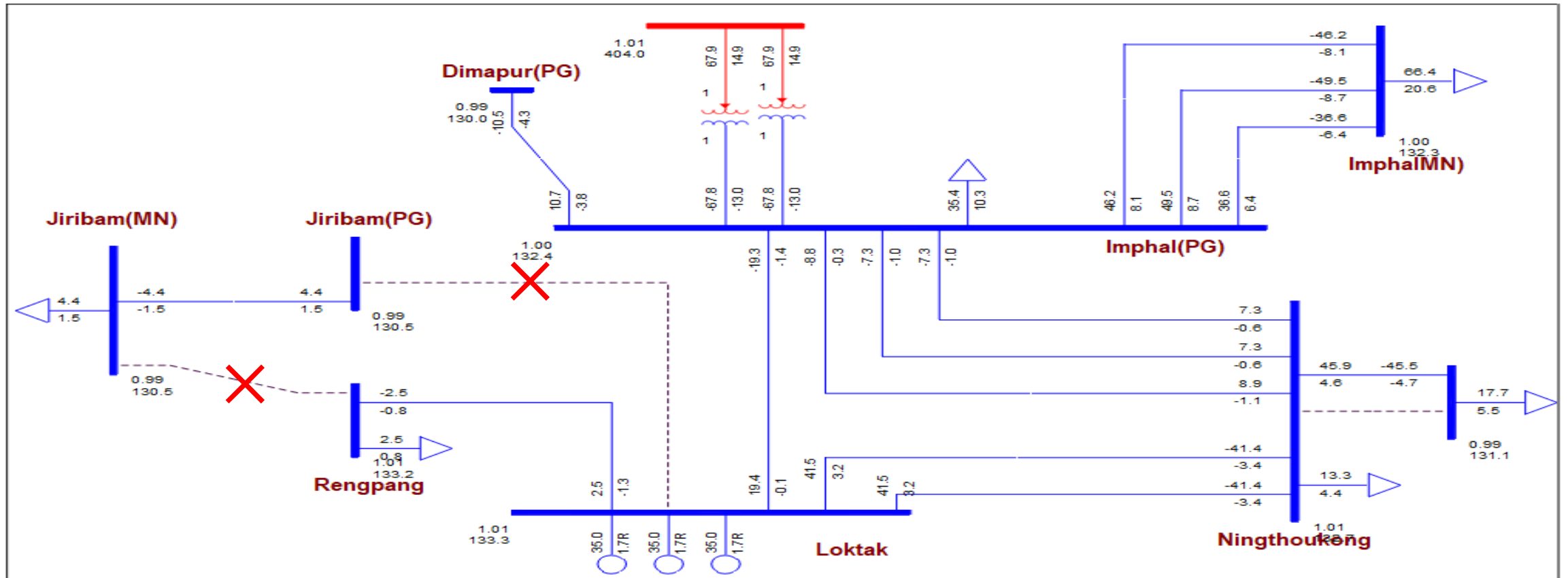


X - Under outage condition

Observation :

- The availability of the 132 kV Loktak–Rengpang–Jiribam (MN)–Jiribam (PG) line would have helped in relieving the loading of the 132 kV Loktak–Ningthoukhong line.
- Under such a condition, no generation backdown would have been required

Case study: Tripping of 132 kV Loktak–Jiribam Line
Loktak HEP Generation : 105 MW and 132kV Loktak – Ningthoukhong ckt-2 is in service



Observation:

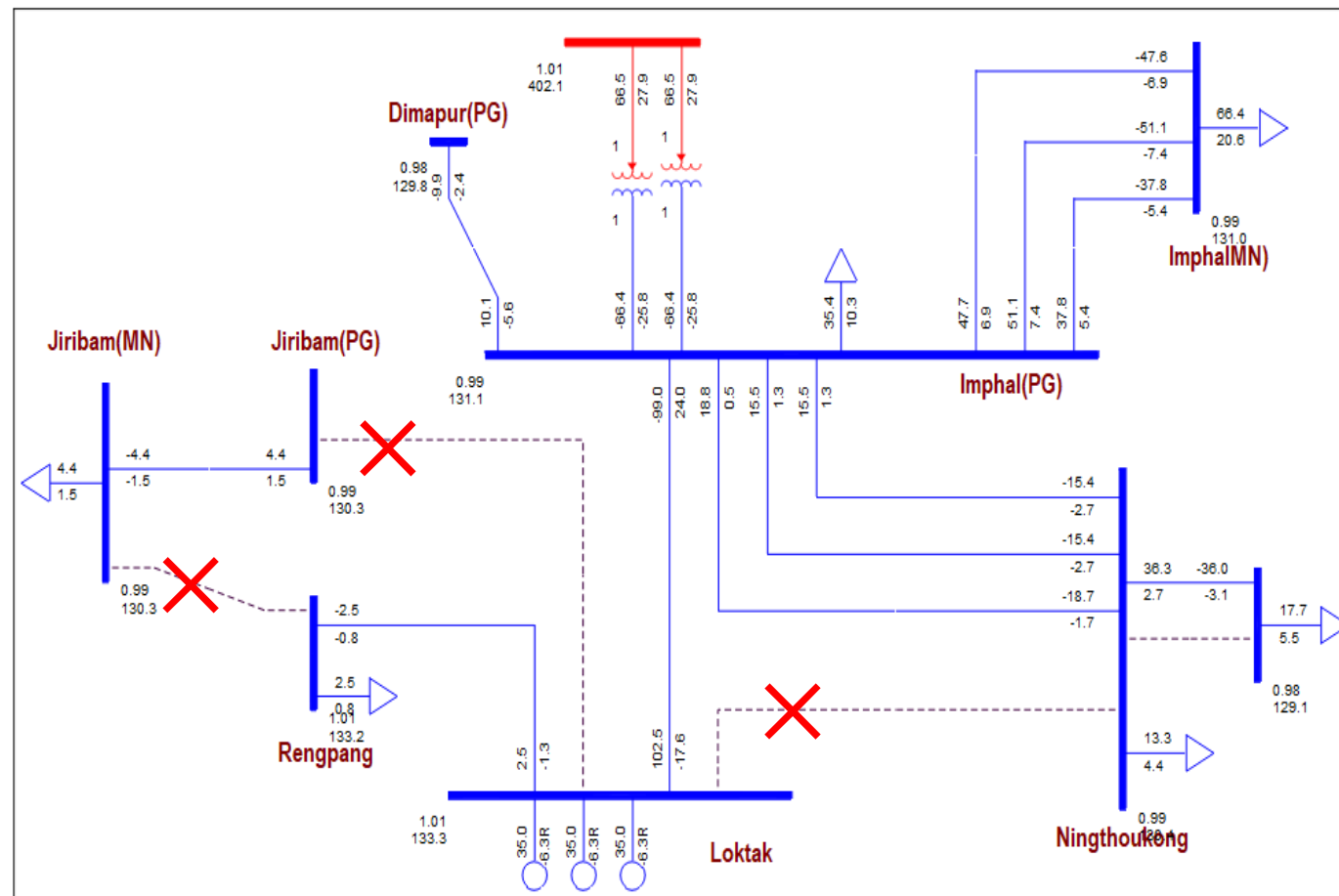
✗ -Under outage condition

With the availability of the 2nd circuit of the 132 kV Loktak–Ningthoukhong line, studies suggest that there would be no issue in evacuating the generation from Loktak HEP

Constrained evacuation of Loktak generation due to simultaneous outages at 17:38 Hrs of 11.08.2025)

Event: on 11-08-2025 following line are under outage condition

- 132 kV Jiribam (MN)–Rengpang (out since 17.11.2023).
- 132 kV Loktak–Jiribam (PG) (out since 08.08.2025).
- 132 kV Loktak–Ningthoukhong tripped at 17:38 hrs on 11.08.2025
- As per the information available with NERLDC, the conductor type of the bay at Loktak is ACSR Panther, with a thermal capacity of 82 MW. Accordingly, a generation schedule of 82 MW was proposed for Loktak HEP.
- However, as informed by NHPC, due to the thermal limitation of the bay equipment at the Loktak end for the 132 kV Loktak–Imphal line, generation from Loktak HEP had to be restrict upto 70 MW.
- Therefore, bay upgradation at Loktak is an urgent requirement and needs to be undertaken at the earliest for effective resolution of the constraint.



✗ -Under outage condition

Observations

- Due Due to the forced outage of the 132 kV Loktak–Jiribam and 132 kV Rengpang–Jiribam lines, generation from Loktak is currently being scheduled at 95 MW, with a minimum continuous backdown of 10 MW, despite being one of the cheapest sources of power in the NER.

To resolve this issue, the following actions are required:

- Early restoration of the 132 kV Rengpang–Jiribam (MN) line – **To be carried out by MSPCL.**
- Bay upgradation at Loktak for the 132 kV Loktak–Imphal (PG) line and the 132 kV Loktak–Jiribam (PG) line as per their approved rated capacity – **To be undertaken by NHPC or PGCIL.**
- Early commissioning of the 2nd circuit of the 132 kV Loktak–Ningthoukhong line – **To be carried out by MSPCL.**