

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power

Nirman Bhawan, New Delhi
Dated: 4th September, 2025

OFFICE MEMORANDUM

Subject: Minutes of the Meeting held under the chairmanship of the Secretary (P) on 27.08.2025 to discuss the Spanish Peninsular blackout event and suggested measures for Indian power system-reg.

Please find enclosed herewith a copy of the Minutes of the Meeting held under the chairmanship of the Secretary (P) on 27.08.2025 to discuss the Spanish Peninsular blackout event and suggested measures for Indian power system for information and necessary action.

Encl: As above

Office of Chairperson, CEA
Dy. No. 1078
Date: 09.09.2025

(Thenkholal Baite)
04.09.2025

Under Secretary to the Govt. of India
Tel: 23062492
Email: opmonitor-power@nic.in

To

1. Chairperson, CEA
2. CMD, Grid-India
3. MD, RVPNL
4. MD, GETCO
5. MD, KPTCL
6. COO, CTUIL
7. Addl. Chief Engineer, SLDC, Gujarat
8. Chief Engineer, SLDC, Rajasthan
9. Chief Engineer, SLDC, Karnataka

10. CGM, Grid-India { with a request to forward the copy of minutes of the meeting to all RE Developers, STUs Generation/Transmission Asset owners. }

ग्रिड प्रबंधन प्रभाग/Grid Management Division
केंद्रीय विद्युत प्रधिकरण/C.E.A.
डायरी सं. 22.0 / Diary No.
दिनांक: 09/09/2025 / Date:

Sl. also discuss the decision with RE developers
8/9

Min (G+D)

Mem (Ph) | Mem (PS)

CE (RA)

Min 9/9/2025
CE (GM) - Pl. disays.

Copy to: PPS to Secretary (Power)/PPS to Addl. Secretary (Thermal/OM)/PPS to Addl. Secretary (R&R/Transmission)/Sr.PPS to Joint Secretary (Transmission)/PPS to Director (OM/FSC).



Minutes of Meeting held under the chairmanship of the Secretary (P) on 27.08.2025 to discuss the Spanish Peninsular blackout event and suggested measures for Indian power system.

A meeting was held under the chairmanship of Secretary (P) on 27.08.2025 on above mentioned subject. The meeting was attended by senior officers of the MoP, CEA, Grid-India, RVPNL, GETCO, KPTCL, SLDC Rajasthan, SLDC Gujarat and SLDC Karnataka. The list of participants is **Annexed**.

2. Grid-India made a detailed presentation on the subject highlighting the following:

- i. On April 28, 2025, at 12:33:30 hrs, the Spanish and Portuguese electricity systems experienced a total voltage collapse, triggering disconnection from the continental European electricity grid.
- ii. Prevalent Grid conditions were low load, high RE penetration (82% in Spain and 91% in Portugal), voltage fluctuations, high voltage, low frequency oscillations in voltage.
- iii. Sudden voltage increase in the grid led to generation disconnections, which in turn further increased the voltages and ultimately blackout within a period of 20 seconds.
- iv. Insufficient dynamic reactive power and voltage control, poor damping of oscillations, and cascade tripping due to over voltages were identified as root causes for the blackout.
- v. Restoration was initiated by black start of hydro and gas stations as well as support from neighbouring countries. Total time for restoration was around 19 hours.
- vi. Recommendations include reinforcement of VRE compliance verification, capabilities for voltage control, interconnections, grid flexibility, storage and black start capabilities (through grid forming technology)

3. Grid-India highlighted that over the past 03 years, there have been around 68 instances of RE generation loss of >1000 MW in the large RE complexes in Indian power system primarily on account of inadequate reactive support and fault ride through failures. In addition, low frequency oscillations triggered by controller interactions are also being observed in RE pockets during high generation periods.

4. Due to coordinated efforts made to enforce compliance to standards, the frequency and magnitude of the generation tripping events in RE complex has reduced over the time. Out of 68 events recorded between January 2022 and June 2025, a total of 41 generation loss events occurred between January 2022 and December 2023 (maximum generation loss: 7,100 MW), while 27 events were recorded between January 2024 and June 2025 (maximum generation loss: 4,930 MW).

5. It was informed that following initiatives are being taken in India to address the challenges associated with the large capacity addition of inverter-interfaced resources (RE, BESS, electrolyzers, data centres etc.) in the Indian power system:

- i. Comprehensive set of regulations and standards governing interconnection and operations of the renewable plants are in place and amendments are under deliberation to strengthen them further.
 - ii. Established procedure is in place for joint compliance verification (type testing and simulation-based) by CTUIL and GRID-INDIA.
 - iii. Regular monitoring, reporting, feedback and follow up with regards to non-compliance is being done by RLDCs / RPCs with VRE developers.
 - iv. Perspective transmission planning on a rolling basis for coordinating augmentation in transmission capacity.
 - v. Development of transmission resource adequacy plans for states.
 - vi. Installation of Synchronous Condenser and Load Centre Generating Plants as per NRPC committee report.
 - vii. Guidelines for Resource Adequacy Planning Framework for India, 2023 have been issued by MoP.
 - viii. Initiatives with IMD, ISRO, National Centre for Medium Range Weather Forecast (NCMRWF) and IIT Bombay are already being taken up to improve the forecast accuracy.
6. After detailed discussions, following action points emerged in the meeting:
- i. Enforcement of compliance of RE plants to specified standards/regulations both at intra-state and inter-state level.
[Action: RE Developers / CTUIL / STUs / RLDCs / SLDCs]
 - ii. Periodic testing and tuning of controllers as well as model validation of all grid elements as per IEGC 2023
[Action: Generation / Transmission Asset Owners]
 - iii. Revision in CEA Construction, Connectivity and Grid Standards for inclusion of necessary technical provisions for RE, BESS, Data Centres, Electrolyzers, Synchronous Condensers and other grid elements.
[Action: CEA]
 - iv. Pilot project on Grid Forming Inverters under R&D.
[Action:CEA]
 - v. Planning of dynamic reactive power compensation devices like SynCONs in RE complexes and near major load centers.
[Action: CTUIL / STUs / CEA]
 - vi. Sharing the learnings from Spanish Peninsular Blackout Event (28th April 2025) with STUs/SLDCs/RE Developers and other stakeholders.
[Action: GRID-INDIA]
 - vii. Discussion to be done with Rajasthan regarding possibility of converting their old thermal units, if identified for retirement, into Synchronous Condensers.
[Action: CEA]
7. The meeting ended with vote of thanks to all the participants.

List of the participants

Ministry of Power

1. Shri Pankaj Agarwal, Secretary (Power) ----- In chair
2. Shri Piyush Singh, Additional Secretary (OM/Thermal)
3. Shri Srikant Nagulapalli, Additional Secretary (R&R/ Transmission)
4. Dr. Sai Baba, Joint Secretary (Transmission/Cord.)
5. Shri Parveen Dudeja, Director (OM/FSC)
6. Shri Thenkholal Baite, Under Secretary (OM)

CEA

1. Shri Ghanshyam Prasad, Chairperson
2. Shri Hemant Jain, Member (GO&D)
3. Shri B. Lyngkhohi, Chief Engineer, GM Division

GRID- INDIA

1. Shri S.C Saxena, CMD
2. Shri Rajiv Porwal, Director (SO)
3. Shri Vivek Pandey, Chief General manager (NLDC)
4. Shri Priyam Jain, Chief Manager (NLDC)

RVPNL

1. Shri Suresh Chand Meena, Director (Operation)

GETCO

1. Shri Upendra Pande, MD

KPTCL

1. Shri Vishwanath Naik, Director (Operation)

SLDC

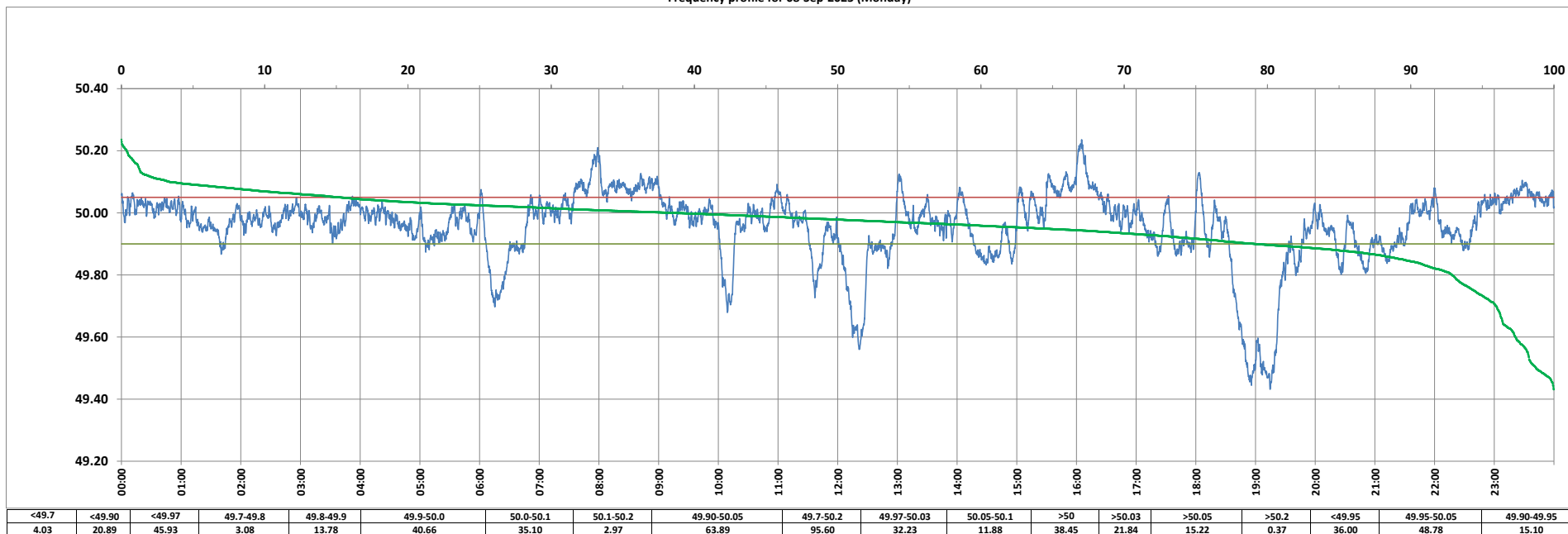
1. Shri A.B. Rathod, Addl. Chief Engineer, SLDC (Gujarat)
2. Shri Sudhir Jain, Chief Engineer SLDC (Rajasthan)
3. Shri Girish, Chief Engineer, SLDC (KPTCL)

GRID CONTROLLER OF INDIA LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 08-Sep-2025 (Monday)



Average Frequency : 49.958

Frequency Variation Index : 0.1502

Standard Deviation : 0.1151

Mileage: 48.0

FDI: 36.1

Instantaneous Frequency		
Max	50.236	16:05:10
Min	49.432	19:14:30

15 minute Average Frequency		
Max	50.158	16:15:00
Min	49.512	19:15:00

No. of excursions	
above 50.03 Hz	106
below 49.97 Hz	117
above 50.00 Hz	154
below 50.00 Hz	153

Average time freq per excursion remains	
below 49.97	0:05:39
above 50.03	0:02:58

No. of hours freq outside 49.9-50.05 Hz	8:40:00
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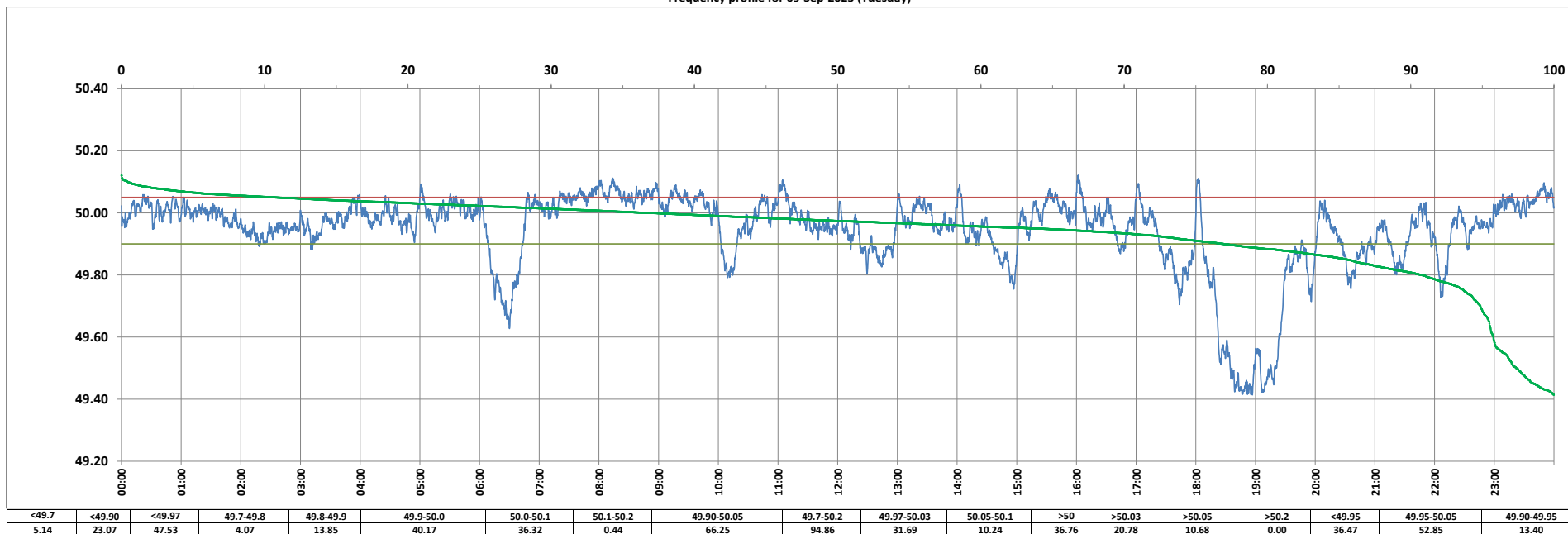
Source : BALIPARA 10 Sec. (8640 samples)

GRID CONTROLLER OF INDIA LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 09-Sep-2025 (Tuesday)



<49.7	<49.90	<49.97	49.7-49.8	49.8-49.9	49.9-50.0	50.0-50.1	50.1-50.2	49.90-50.05	49.7-50.2	49.97-50.03	50.05-50.1	>50	>50.03	>50.05	>50.2	<49.95	49.95-50.05	49.90-49.95
5.14	23.07	47.53	4.07	13.85	40.17	36.32	0.44	66.25	94.86	31.69	10.24	36.76	20.78	10.68	0.00	36.47	52.85	13.40

Average Frequency : 49.943

Frequency Variation Index : 0.1926

Standard Deviation : 0.1266

Mileage: 46.1

FDI: 33.8

Instantaneous Frequency		
Max	50.121	16:01:50
Min	49.414	18:56:50

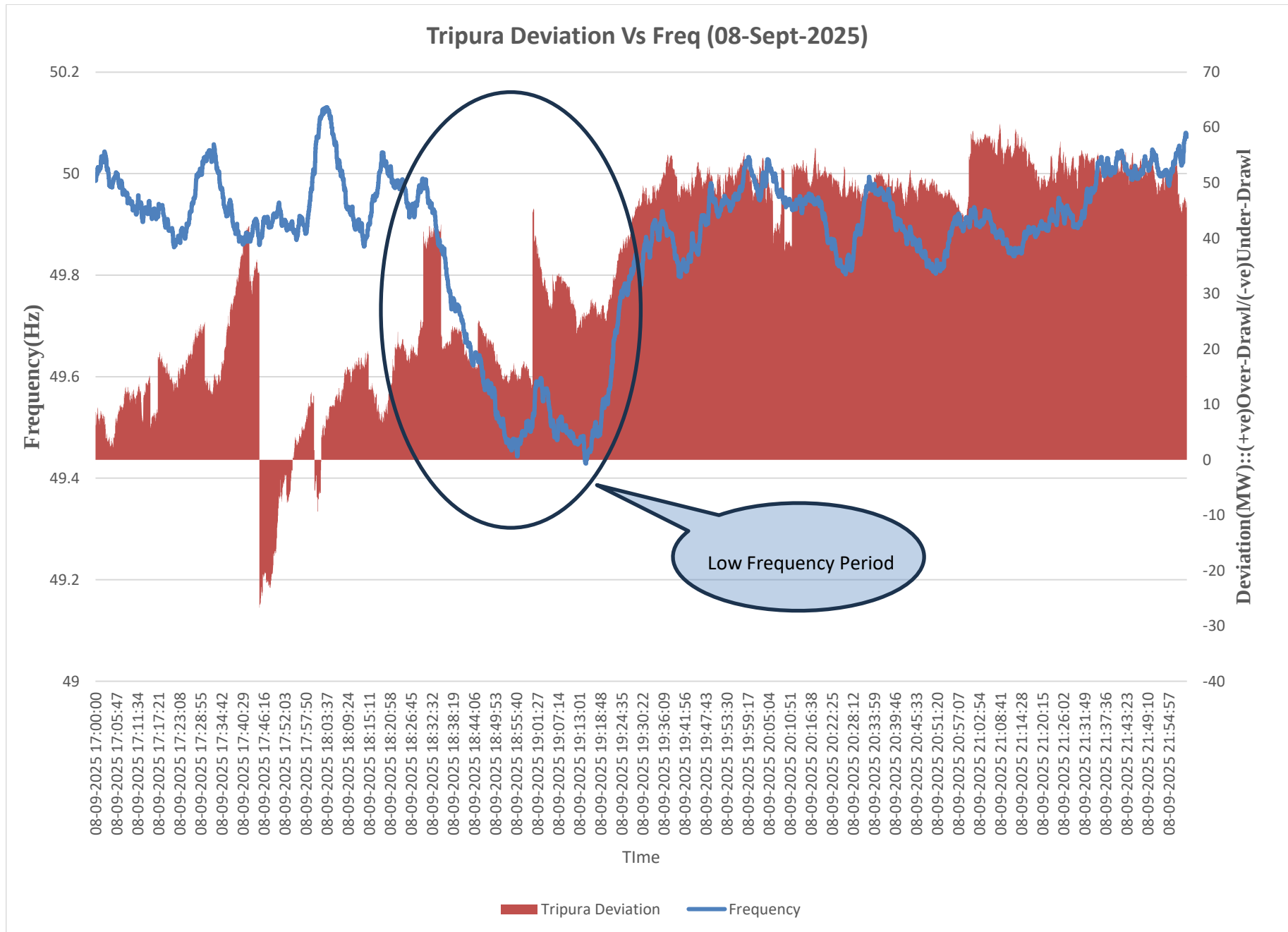
15 minute Average Frequency		
Max	50.074	8:15:00
Min	49.445	19:00:00

No. of excursions	
above 50.03 Hz	120
below 49.97 Hz	125
above 50.00 Hz	126
below 50.00 Hz	125

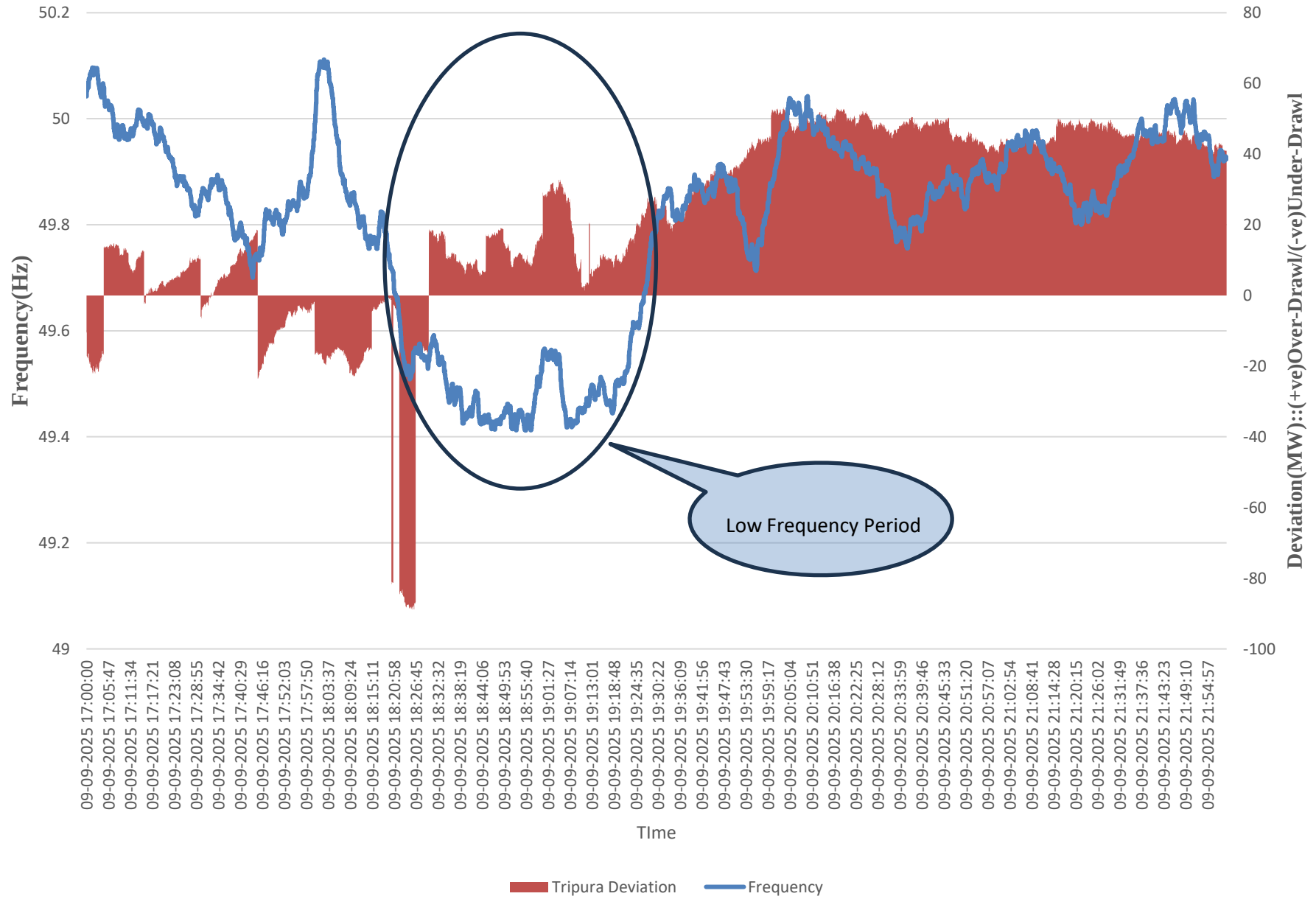
Average time freq per excursion remains	
below 49.97	0:05:29
above 50.03	0:02:30

No. of hours freq outside 49.9-50.05 Hz	8:06:00
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Source : BALIPARA 10 Sec. (8640 samples)



Tripura Deviation Vs Freq (09-Sept-2025)



**Minutes of special review meeting regarding implementation of
NERPSIP /Comprehensive Scheme**

Date: 02.05.2025

Time: 11:00 AM onwards

Venue: POWERGRID Kahilipara Office

Member Secretary, NERPC and ED(NERPSIP/NERTS), POWERGRID welcomed all the participants to the meeting. The forum was apprised regarding the prestigious NERPSIP project which is under implementation by POWERGRID in 6 states of NER viz. Assam, Manipur, Meghalaya, Mizoram, Nagaland and Tripura. Member Secretary, NERPC emphasized that the project will greatly overhaul the present transmission and distribution scenario of the NER Grid. He also expressed that the overall power scenario of the region will improve significantly by utilization of these assets created under NERPSIP thus impacting the socio-economic aspect of the region.

The meeting proceeded ahead with introduction of all attendees and presentation from POWERGRID.

Following are the snippets of the discussion held during the presentation and issues associated with implementation:

NERPSIP:

Summary of elements under NERPSIP as on 02.05.2025:

- ❖ Total Elements- 446 nos.
- ❖ Commissioned- 381 nos
- ❖ Taken over by State Utilities- 265 nos

POWERGRID informed that the balance elements under NERPSIP are targeted to be commissioned at the earliest. POWERGRID informed that delay in completion of project is attributed to various challenges faced i.e. severe flood in Tripura, sinking of soil in the substation area of 132kV Pfulsero S/s, financial crunch of the agencies. Also some of the agencies are under NCLT/ Liquidation.

State wise deliberations:

Manipur: (No representative)

A1. For the state of Manipur, all 71 elements have been commissioned against total scope of 71, out of which 66 have already been taken over by MSPCL. Further, POWERGRID informed that amidst ethnic clash and severe law and order situation in the state all the elements have been charged. Security personnel were engaged wherever required. Member secretary appreciated both POWERGRID and MSPCL for this impressive progress despite law and order situation.



contracting agencies are releasable against TOC, it has led to financial issues of the contracting agencies. Further many of the OEMs are refusing for extending warranty of their equipments leading to contractual complications. Member secretary advised State Utilities to issued TOC with punch points. A task force is to be formed jointly with POWERGRID and State Utility for expediting closure of the punch points in commissioned elements viz. 132kV Phulbari S/s, 132kV Mynkre S/s, etc..

E6. POWERGRID informed that MePTCL have requested for change in location of residential quarters for 03 substations in Meghalaya to areas quite far from the constructed substations at Mynkre, New Shillong and Mawngap. POWERGRID mentioned that in 7th PSC Meeting dtd. January'2020, CEA has clearly instructed for construction of residential buildings within Substation premises for ease of movement of O&M personnel. Construction of these townships away from the designated substation premises may not serve the purpose of O&M of the substation. Further, executing agency may also refuse to carry the works at a different location due to deviation from the original scope because of impact on transportation of materials. It was discussed to explore for deletion of scope of Township/transit camp at these locations. Letter to JS(Trans), MoP, Govt. of India has also been issued regarding the same.

Tripura :

- F1. POWERGRID stated that mainly due to poor financial condition of the executing agencies, the progress in Tripura got hampered. 02 agencies i.e. Technofab & Supreme are under NCLT and EMC is under liquidation. Out of total 151 elements, 107 has been commissioned and 57 have been taken over.
- F2. POWERGRID informed that despite the difficulties, works are being executed by special arrangement through sub-vendor, direct payments to suppliers / labour contractors to expedite progress. POWERGRID is also executing works/procurement of materials through facilitation mode to expedite closure of the project.
- F3. 132 kV Gokulnagar S/S being constructed under NERPSIP Tripura shall be connected by LILO of the under construction 132 kV Surajmaningar – Rokhia line by TPTL. Construction works for the LILO portion under NERPSIP has been completed. TPTL was requested to expedite the stringing works of 132 kV Surajmaningar – Rokhia line. 2 links (SM Nagar –Gokul Nagar & Rokhia – Gokul Nagar) is pending due to non-availability of SM Nagar – Rokhia (Sate Existing portion). TSECL informed that their 132kV SMNagar-Rokhia TL is targeted for completion within May'25.
- F4. POWERGRID had deposited Rs.1.55 Cr. for diversion of 132kV Palatana Udaipur line at Udaipur substation. Further in addition 2no of DD+9 towers were taken by TPTL on replenishment basis from POWERGRID to facilitate the diversion. The works have been completed and utilization of Rs.0.54 Cr



The meeting ended with a thanks to the chair.

List of Participants:

NERPC
1. Sh. K.B. Jagtap, Member Secretary
2. Sh. Alikpanth De, Dy. Director
3. Sh. Vikash Shankar, Asst. Director
4. Sh. Asim Goswami, Asst. Director
POWERGRID
1. Sh. Rajesh Gupta, ED (NERPSIP/NERTS)
2. Sh. Pradeep Kumar, CGM,I/C(CTDS-AP)
3. Sh. S.I. Singh , CGM(PESM/ Engg)
4. Sh. Hemendra Agrawal, CGM(Projects)
5. Sh. Puranam Venkata Satya Sudhakar, CGM(CTDS-AP)
6. Sh. Tasso Bida, Sr.GM(CTDS-AP)
7. Sh. Ashish Agrawal, Sr.DGM(CTDS-AP)
8. Sh. A.R.Das, DGM(NERPSIP)
9. Sh. Ashish Singh, CM(CTDS-AP)
10. Sh. Raktim Konwar, CM (NERPSIP)
11. Sh. Ayekpam Dinku, Dy. Manager(NERPSIP)
12. Mrs. Chayanika Das, AM(NERPSIP)
13. Sh. Rahul Das, AM(NERPSIP)
14. Sh. Pranjal Das, AM(NERPSIP)
15. Mrs. Ankita Sarma, AM(NERPSIP)
16. Ms. Atiqua Mehboob, FE(CTDS-AP)
Grid India
1. Sh. AMARESH MALLICK - (ED)
2. Sh. BISWAJIT SAH U- (CGM)
3. Sh. Sugandh Prasad Barnwal, CGM
4. Sh. PALASH JYOTI BORAH - (MANAGER)
5. Ms. Ananya Giri, Engineer
6. Sh. Sakal Deep, AM
7. Sh. SACHIN SINGH - (MANAGER)
8.
AEGCL
1. Sh. RITUPARNA KHARGHARIA - (GM-EAP)
2. Sh. Raj Sarma, DGM
3. Sh. Rupjyoti Das, DM
4. Sh. Arup Sarmah, AGM
5. Sh. Sashankar Buragohain, AM
MEPTCL
1. Sh. K. LYNywa - (SE)
2. Sh. M.R. MARAK - (EE)
3. Sh. J.Sangma, AE
4. Sh. MARC N. TARIANG - (JE)
5. Sh.S.K.Sangma, RE
6. Sh. Justwell Tariang, RE

Vilen

7. Sh. Pynshai Nonglong, RE
8. Sh. C.W.Chen, AEE
9. Sh. K. Myrthong, AEE
10. Sh. B Narry, SE
DOPN
1. Sh. Mhowlumo Kikon, SE
2. C. Trangolin Saysom, SDO
TPTL
1. Sh. Santanu Das, DGM
2. Smt. Shampa Sen, SM

Vilcan

All constituents shall submit a detailed report of operation of these Relays at different frequencies to Regional Load Despatch Centre and Regional Power Committee on daily basis and the Regional Power Committees shall carry out inspection of these Relays as and when required.

In this regard:

- a) All constituents are requested to submit report on UFR operation (on daily basis) along with details of upgraded UFR settings and list of feeders identified with quantum of load in the respective regions after any incident to NERLDC and NERPC to assess the performance of the UFR relays in comparison to the expected load relief.
- b) The revised UFR list in NER as per 19th TCC-RPC meeting is enclosed in **Annexure B.26**. As per the list, UFR settings are yet to be implemented in many locations of DoP, Arunachal Pradesh, Manipur, Meghalaya, Nagaland and Tripura.
- c) All 33 kV feeders where UFRs are installed are to be mapped into NERLDC SCADA.

Hence, all the NER constituents are requested to co-operate and implement the UFR settings and furnish the reports for integrated grid operation.

Deliberation of the sub-Committee:

Pls refer to deliberations in item No. **C.5**

The Sub-Committee noted as above.

Action: all STUs/all SLDCs.

B.28 First time charging process for elements under NERPSIP and Comprehensive projects:

This First time Charging (FTC) procedure is applicable to

- All the generating station those are regional entities (as defined in IEGC)
- Power system elements belonging to 400 kV level and above irrespective of ownership
- Emanating from ISGS /ISTS substations,
- Inter-Regional/ Interstate/Transnational transmission lines irrespective of voltage level/ownership,
- HVDC links/poles irrespective of ownership,
- FACTS devices (TCSC/FSC/STATCOM/SVC),
- Station Transformers (STs) connected at generating station those are regional entities.

The procedure along with Annexures/Documents to be submitted is available at NERLDC website at <https://www.nerlhc.org/first-timecharging-procedure/>

As several elements are to be integrated into the grid under NERPSIP and Comprehensive schemes, the owner of the asset has to submit the application in FTC portal(https://ftc.nerlhc.in/FTC_NERLHC/) to NERLDC as per the due procedure and timeline for issuance of charging clearance.

SLDCs may follow this procedure for Intra – state elements as well for bringing uniformity throughout the region for smooth operation of power system and the interest of grid security.

In addition, SLDCs are requested to submit the following necessary requirement to NERLDC prior to first time charging clearance by the SLDC's:

- SLDCs must ensure telemetry data and communication system in line with Clause 4.6.2 and 5.2 (q) of Indian Electricity Grid Code, 2010 and clause 6(3) of CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007, as amended from time to time. (Annexure A3, B3 to be submitted and telemetry data to be made available at NERLDC)
- SLDCs shall also ensure healthiness of the protection system in line with CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time to time and also ensure coordinated protection settings of the respective element as per RPC guidelines prior to first time charging. (Downloadable Relay settings and Annexure B2 to be submitted)
- Also, technical parameter as per format of NERLDC shall be furnished by respective SLDCs to NERLDC for network modelling and system studies.

Deliberation of the sub-Committee:

Sr.GM(SO-II), NERLDC outlined the detailed FTC procedure prepared by NERLDC and stressed that the owner of the asset (in this case the STUs) have to apply for FTC to NERLDC/SLDC. POWERGRID shall have to help the STUs during the process of obtaining FTC. Further he highlighted the importance of ensuring healthy telemetry, protection and metering systems. He mentioned that as the State-owned elements also have impact on the security and reliability of the NER Grid, SLDC must submit above mentioned details to NERLDC prior to FTC clearance.

DD, NERPC stated that under **SAMAST**, for the stations coming under NERPSIP/Comprehensive Scheme SEMs were considered in the DPRs by the respective utilities. However, PSDF did not grant SEMs for the same.

Manager, NERPSIP stated that under NERPSIP SEM installation is not under scope of the project and the same has been discussed and recorded multiple times in the Joint Steering Committee.

The forum requested NERLDC/NERPC to take up the matter at the apex level as multiple elements will be added to the grid which require SEMs as per FTC procedure.

After detailed deliberation, the Forum suggested all SLDCs to furnish all the details requested by NERLDC along with details of SEMs, prior to FTC clearance of state-owned elements.

The Sub-Committee noted as above.

Action: all STUs/all SLDCs.

B.29 Extension of continuous shutdown/outage by DoP Ar. Pradesh without approval from NERPC:

Planned continuous shutdown of 132 kV Lekhi-Chimpu was approved from 22.01.22 to 15.03.22. However, the shutdown has not been returned by DoP, Arunachal Pradesh.

DoP, Arunachal Pradesh is requested to give proper explanation for availing the same and refrain from such actions in the future. Matter is to be taken with utmost seriousness.

Deliberation of the sub-Committee:

Sr.GM(SO-I), NERLDC stated that non-return of the shutdown from 16:00hrs of 15.03.2022 onwards led to Grid Disturbance at Capital area of Chimpu upon tripping of 132kV Biswanath Chariali – Chimpu D/C on 09th April'2022. The continuity of the shutdown without any approval (for extension) compounded with the Grid Disturbance leads to gross inappropriation and same has to be regularized. After detailed deliberation the forum requested DoP Ar. Pradesh to apply for extension at the earliest.

The Sub-Committee noted as above.

Action: DoP Ar. Pradesh.

B.30 List of Important Grid Elements of NER 2022-23 by NERLDC:

As per Clause no. 5.2 (c) of CERC (Indian Electricity Grid Code) Regulations, 2010, Draft List of Important Grid Elements of NER for 2022-23 has been prepared and mailed to the constituents and comments may be shared till 5th May 2022. All the constituents are requested to kindly check and validate their data after which it shall be finalised.

Deliberation of the sub-Committee:

NERLDC requested the forum to submit their comments latest by 05-05-2022.

The Sub-Committee noted as above.

Action: all utilities.



**Govt. of India
Ministry of Power
Central Electricity Authority
New Delhi**

**Monthly Progress Report of Central Funded
Schemes (Jul'2025)**

(Published in fulfilment of CEA's obligation under section 73(i) & (j) of the Electricity Act, 2003)

- (1) North-Eastern Region Power System Improvement Project (NERPSIP)**
- (2) Comprehensive Scheme of Transmission & Distribution System in Arunachal Pradesh & Sikkim**
- (3) Prime Minister Development Package (PMDP)-2015**
- (4) Prime Minister Reconstruction Plan (PMRP)-2004**

TRIPURA

Progress:

S. No.	Packag e	Name of Agency	Name of line/ substation	MVA	CKM	Sch./ Ant. Comp.	Comple tion Month	Status/ Commis sioning Month
1.	TW-01 01.12.17	EMC	Udaipur - Bagafa 132 kV D/C line		63.81 4	Feb'20	Mar'22	Mar'22
2.			Bagafa – Belonia 132 kV D/C line		25.82 2	Feb'20	Aug'21	Jan'23
3.			132kV Interconnecting portion of 132kV Sabroom - Satchand at Satchand end		2.501	Feb'20	Mar'21	Dec'24
4.			Bagafa – Satchand 132 kV S/c on D/C line		29.63 6	Feb'20/ Oct'24	Oct'24	Oct'24
5.	TW-02		Rabindra Nagar – Rokhia 132 kV D/C line		44.32 6	Feb'20	Dec'21	Sept'22
6.			LILO of one circuit of Surajmaninagar - Rokhia 132 kV D/c line at Gokulnagar (\$)		5.734	Feb'20	Feb'21	Ready for charging
7.			Belonia – Sabroom 132 kV D/C line		77.63	Feb'20	Dec'22	Jul'24
8.			132kV Interconnecting portion of 132kV Sabroom - Satchand at Sabroom end		1.311	Feb'20	Nov'20	Jan'25
9.			Rabindra Nagar – Belonia 132 kV D/C line		123.4 98	Feb'20/ Oct'23	Oct'23	Jan'25
10.	TW-03		LILO of Ambassa – P. K. Bari 132 kV S/C at Manu		0.69	Feb'20	Nov'20	Sept'24

S. No.	Package	Name of Agency	Name of line/substation	MVA	CKM	Sch./ Ant. Comp.	Completion Month	Status/ Commissioning Month
11.			Kailasahar – Dharmahar 132 kV D/C line		43.558	Feb'20	Feb'23	Oct'24
12.			LILLO of Agartala (79 Tilla) - Dhalabil (Khowai) 132 kV S/C line at Mohanpur		2.438	Feb'20	Jan'21	Aug'21
13.			Udaipur- Amarpur 132 kV D/C line		30.59	Feb'20	Mar'21	Sept'24
14.			132kV Interconnection portion from Manu (Old) S/s to Manu (New) S/s for charging of 132kV Manu - Chawmanu TL		3.195	Feb'20	Mar'21	Sept'24
15.	SS-01 04.11.16	SPML	2x31.5 MVA, 132/33 kV new sub-station at Satchand	83		Oct'19	Sept'21	Mar'25
16.			2x31.5 MVA, 132/33 kV new sub-station at Sabroom	83		Oct'19	Oct'21	Feb'25
17.			2x50 MVA, 132/33 kV new sub-station at Belonia	120		Oct'19	Nov'21	Jun'25
18.			2x50 MVA, 132/33 kV new sub-station at Bagafa	120		Oct'19	Oct'21	Nov'23
19.	SS-02 04.11.16	SPML	2x50 MVA, 132/33 kV new sub-station at Rabindra Nagar	120		Oct'19	Aug'21	Jan'22
20.			2x50 MVA, 132/33 kV new sub-station at Gokulnagar (\$)	120		Oct'19	Mar'21	Ready for charging

S. No.	Package	Name of Agency	Name of line/substation	MVA	CKM	Sch./ Ant. Comp.	Completion Month	Status/ Commissioning Month
21.			Augmentation of Udaipur sub-station	120		Oct'19	July'21	Jan'21
22.			Augmentation of Jirania sub-station	83		Oct'19	Sept'20	June'25
23.			132/33/11 kV Rokhia (Extn) Substation	0.00		Oct'19	Oct'20	Jan'22
24.	SS-03 04.11.1 6	SPML	2x50 MVA, 132/33 kV new sub-station at Manu	120		Oct'19	Oct'20	July'25
25.			2x31.5 MVA, 132/33 kV new Substation at Amarpur	83		July'24	Jul'24	Jul'24
26.			2x31.5 MVA, 132/33 kV new sub-station at Mohonpur (Hezamara)	83		Oct'19	Feb'21	Aug'21
27.			Replacement of existing 2x7.5 MVA, 132/33 kV transformer by 2x50 MVA, 132/33 kV transformer at Kailasahar (#)	120		Oct'19	Mar'23	Partially Charged
28.			Augmentation of Ambassa sub-station by addition of 1x31.5, 132/33 kV transformer, 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer including extension of control room	51.5		Oct'19	Feb'21	Dec'22
29.			Augmentation of Dhalabil (Khowai) sub-station by addition of 2x31.5, 132/33 kV transformer,	83		Oct'19	Nov'21	Jan'25

S. No.	Packag e	Name of Agency	Name of line/ substation	MVA	CKM	Sch./ Ant. Comp.	Comple tion Month	Status/ Commis sioning Month
			2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer including extension of control room					
30.			132/33/11 kV Dharmanagar (Extn.) Substation	0.00		Oct'19	Aug'21	Feb'25
31.	DMS-01 22.12.17	Techno fab	LILO of existing Tirthamukh - Silachari line at Karbook		0.14	Nov'19	Jan'20	Aug'21
32.			LILO of existing Jolaibari - Bagafa line at Muhuripur (#)		15.15	Nov'19	Jan'23	Partially Charged
33.			Dalak (Chelagang) - Amarpur line		16.63	Nov'19	Oct'21	Oct'24
34.			33/11 kV Belonia–Chittamara		8.32	Nov'19	Aug'21	Sept'24
35.			Dalak (Chelagang) – Jatanbari		8.2	Nov'19	Jan'22	Jul'25
36.			Garjee to Chittamara		13.75	Nov'19	Dec'21	Jan'25
37.			Udaipur to Maharani		5.840	Nov'19	July'21	Jan'22
38.			Garjee-Maharani		19.81	Nov'19	Oct'21	Jul'24
39.			132/33kV Amarpur-Chechua *		19.77	Nov'19	Mar'22	Yet to be charged
40.			33/11 kV New S/s at Karbook	10		Nov'19	Nov'20	July'21
41.			33/11 kV New S/s at Muhuripur	10		Nov'19	Mar'23	Apr'24

Re: Regarding ESD of Unit#4 of Kameng HPS due to High vibration at TGB Y -Axis

3 emails

NERLDC Control Room <nerldccr@grid-india.in >

Tue, 02 Sep 2025 3:37:27 PM +0530

To "Kameng PHCC"<kameng.phcc@neepco.co.in>

Cc "Biswajit Sahu (बिस्वाजित साहू)"<biswajit@grid-india.in>,"Babul Roy (बाबुल रॉय)"<broy@grid-india.in>,"NERLDC RELIABILITY"<nerldcreliability@grid-india.in>

Sir/madam,

It has been observed that emergency shutdown for the Unit-4 was applied two earlier instants before (i.e. 24-Aug-25 & 30-Aug-25) for the same reason.

Kameng HEP has also applied ESD of Unit-4 for same reason on today. It is understood that the proper maintenance has not been done from Kameng end in previous shutdown.

By not properly maintaining the unit leads to generation loss and subsequently, running of unhealthy machine with the grid which leads to system instability in 400 kV Balipara node. It is the obligation of Generator for maintaining healthiness of units before and after syncing with the grid.

Therefore, ESD of Unit-4 is subjected to allow after confirming that the same reason shall not be repeated and for this, proper corrective action is taken at your end.

सादर /Regards,
पाली प्रभारी/Shift-In-Charge

उत्तर पूर्वी क्षेत्रीय भार प्रेषण केंद्र, शिलांग
North Eastern Regional Load Dispatch Centre, Shillong



दूरभाष / Contact No-

Guwahati

Mobile 6901274070,

Landline 0361-2801814, 2801815

ULDC 23640214, 23640216, 23640212

Shillong

Landline 0364 2537481/2537427/ 2537470

Mobile 8415900659/ 8415900660

ULDC PH NO- 23640028/23640059/23640024/ 23640027

फैक्स नम्बर /Fax- 0364- 2537486/2537470

From: Kameng PHCC <kameng.phcc@neepco.co.in>

Sent: Tuesday, September 2, 2025 2:47 PM

To: NERLDC Control Room; NERLDC Control Room; NERLDC Outage; nerldccontrolroom; cr nvvn; cr nvvn; nvvniex; anujesh shahi

Cc: Dhan Chandra Manta; Ashim Kumar Sarmah; neepcocommercial; neepcocontrolroom

Subject: Regarding ESD of Unit#4 of Kameng HPS due to High vibration at TGB Y -Axis

****Warning****

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Sir/Madam,

It is to inform you that in Unit#4 of Kameng HPS, TGB vibration at Y-Axis reached suddenly above permissible limit. It in context it is requested to provide an ESD for the same from 16:30 Hrs to 18:00 Hrs of today to check the machine and changing of the vibration probe. Efforts shall be made to bring back the unit as soon as possible.

TPDDL TGNA revision has been duly attached with it. Revised TGNA shall be as 170.25 MWHRS.DC shall be revised accordingly.

ESD request form attached for your ready references.

Regards, / सादर,

M. Gogoi

Manager(E/M)

Kameng Hydro Power Station / कामेंग जल विद्युत केंद्र

KaHPS, NEEPCO, Kimi, Arunachal Pradesh / KaHPS, नीपको, किमी, अरुणाचल प्रदेश

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cr.nvvn <cr.nvvn@ntpc.co.in>

Tue, 02 Sep 2025 2:49:32 PM +0530

To "Sudhanshu Prasad"<sudhanshu.prasad@tatapower-ddl.com>,"anujesh shahi"<anujesh.shahi@tatapower-ddl.com>,"Sandeep Kumar"<sandeep.k@tatapower-ddl.com>,"Yogesh Prakash"<yogesh.prakash@tatapower-ddl.com>,"Deepak Mehra I"<mehra.deepak@tatapower-ddl.com>,"Vishal Dutt"<vishal.dutt@tatapower-ddl.com>,"Akhil Panayamtatta Unnikrishnan"<akhil.unnikrishnan@tatapower-ddl.com>,"Power Management Group"<power.management@tatapower-ddl.com>,"Power Manager (PSC)"<power.manager@tatapower-ddl.com>,"Shabeeb Anwar Zaidi"<shabeeb.zaidi@tatapower-ddl.com>,"Subashish

Mohanty"<subashish.mohanty@tatapower-ddl.com>,"Radhika Srivastava"
<radhika.srivastava@tatapower-ddl.com>

Cc "RANDEEP SINGH"<RANDEEPSINGH@NTPC.CO.IN>,"Amit Kr"
<AMITKUMAR08@NTPC.CO.IN>,"ARVINDSHARMANVVN"
<arvindsharmanvvvn@ntpc.co.in>,"Nvvvn BD"<nvvvnbd@ntpc.co.in>,"PRASANTA
KANJILAL"<PKANJILAL@NTPC.CO.IN>,"DHANASHREE RAJENDRA PANDE"
<DRPANDE01@NTPC.CO.IN>,"Kameng PHCC"<kameng.phcc@neepco.co.in>

Dear Sir,

Please refer to the trailing mail.

With Thanks & Regards,

Shift-in-Charge

Control Room (NTPC Vidyut Vyapar Nigam Ltd.)

NTPC EOC, Sector -24, Noida-201301

Ph: +91 120 2410606 +91 120 4947263 +91 120 2973999 Mobile No.-9266521008

Email: cr.nvvvn@ntpc.co.in , nvvniex@gmail.com

From: Kameng PHCC <kameng.phcc@neepco.co.in>

Sent: Tuesday, September 2, 2025 2:47 PM

To: nerldccr <nerldccr@grid-india.in>; nerldccr <nerldccr@posoco.in>; nerldcoutage
<nerldcoutage@grid-india.in>; nerldcontrolroom <nerldcontrolroom@gmail.com>; cr.nvvvn
<cr.nvvvn@ntpc.co.in>; cr nvvn <cr.nvvvn@gmail.com>; nvvniex <nvvniex@gmail.com>; anujesh shahi
<anujesh.shahi@tatapower-ddl.com>

Cc: Dhan Chandra Manta <dhanc.manta@neepco.co.in>; Ashim Kumar Sarmah
<ashim.sarmah@neepco.co.in>; neepcocommercial <neepcocommercial@gmail.com>;
neepcocontrolroom <neepcocontrolroom@yahoo.com>

Subject: Regarding ESD of Unit#4 of Kameng HPS due to High vibration at TGB Y -Axis

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Regards, / सादर,

M. Gogoi

Manager(E/M)

Kameng Hydro Power Station / कामेंग जल विद्युत केंद्र

KaHPS, NEEPCO, Kimi, Arunachal pradesh / KaHPS, नीपको, किमी, अरुणाचल प्रदेश

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TGNA REVISION FORMET.pdf
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Kameng PHCC < kameng.phcc@neepco.co.in >

Tue, 02 Sep 2025 2:47:16 PM +0530

To "nerldccr"<nerldccr@grid-india.in>,"nerldccr"<nerldccr@posoco.in>,"nerldcoutage"<nerldcoutage@grid-india.in>,"nerldcontrolroom"<nerldcontrolroom@gmail.com>,"cr nvvn"<cr.nvvn@ntpc.co.in>,"cr nvvn"<cr.nvvn@gmail.com>,"nvvnix"<nvvnix@gmail.com>,"anujesh shahi"<anujesh.shahi@tatapower-ddl.com>

Cc "Dhan Chandra Manta"<dhanc.manta@neepco.co.in>,"Ashim Kumar Sarmah"<ashim.sarmah@neepco.co.in>,"neepcocommercial"<neepcocommercial@gmail.com>,"neepcocontrolroom"<neepcocontrolroom@yahoo.com>

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M. Gogoi
Manager(E/M)

Kameng Hydro Power Station / कामेंग जल विद्युत केंद्र
KaHPS, NEEPCO, Kimi, Arunachal pradesh / KaHPS, नीपको, किमी, अरुणाचल प्रदेश

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