



सत्यमेव जयते



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,
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No.: No. NERPC/SE (O)/OCC/2021/2257-2296

March 10, 2023

To

As per list attached

Sub: Minutes of 199th OCC Meeting.

Sir/Madam,

Please find enclosed herewith the minutes of the 199th OCC Meeting held at "Hotel Nandan" Guwahati on 22nd February, 2023 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.

Encl: As above

(एस. एम. आइमोल / S. M. Aimol)

निदेशक / Director

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19. Vice President (Plant), OTPC, Badarghat Complex, Agartala, Tripura - 799014
20. ED, PGCIL/NERTS, Dongtieh-Lower Nongrah, Lapalang, Shillong -793 006
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22. Vice President, PTCIL, 2nd Floor, NBCC Tower, 15, Bhikaji Cama Place, New Delhi – 110066
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24. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066
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26. Head & VP, (R&C), ENICL, IndiGrid, Windsor Building, Kalina, Santacruz (East), Mumbai- 98
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30. CGM, DISCOM, Bijuli Bhawan, Guwahati – 781001
31. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar – 791111
32. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
33. Head of SLDC, MSPCL, Imphal – 795001
34. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
35. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl – 796 001
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.



(एस. एम. आइमोल / S. M. Aimol)
निदेशक / Director



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Minutes of Meeting of 199th OCCM, NERPC



Govt. of India
Ministry of Power
North Eastern Regional Power Committee
Shillong

North Eastern Regional Power Committee
Minutes of Meeting of the
199th Operation Coordination Sub-Committee Meeting

Time of meeting : 10:00 Hrs.
Date of meeting : 22-02-2023 (Wednesday)
Venue : "Hotel Nandan, Guwahati"

The 199th OCC meeting started with self-introduction by all participants followed by opening remarks by Shri K. B. Jagtap, Member Secretary, NERPC. (List of participants is attached at **Annexure-I.**)

Member Secretary welcomed all the participants and thanked all constituents for amicably deciding all shutdown items on 20th Feb, 2023 (Monday). He informed that Ministry of Power has agreed to increase PSDF funding pattern to 90:10 (Central: State) from earlier 50:50 pattern for OPGW based reliable communication system for NER States. He hoped that all States will take maximum benefit out of this scheme offered by the central government. Member Secretary also mentioned about the necessity to bring back the 132kV Jiribam-Haflong transmission line and requested PGCIL to put all efforts to bring the line at the earliest. He further stressed upon the requirement of pre-monsoon preparedness by all States with respect to regular patrolling and healthiness of the transmission systems in the region, in advance, so as to minimize disturbances and outages during monsoon. He informed that the NETeST and PCC meetings would be convened on 13th & 14th March, 2023 respectively and requested all stakeholders to give focused attention to a number of issues related communication and protection faced in the region.

He then requested Director, NERPC to take up the agenda items.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 198th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 198th meeting of Operation Sub-Committee held on 24th January 2023 at NERPC Conference Hall, Shillong was circulated vide letter No. NERPC/SE (O)/OCC/2021/ 9994 -10033 dated 3rd February, 2023.

Following comment(s)/observation(s) were received from the constituents-

Agenda for 199th OCC Meeting to be held on 22nd February 2023

Utility	Agenda Item	Recorded in MoM	Comments
MEPTCL	C.12	SLDC Meghalaya intimated the forum that the line work has been completed and the reconductoring is done with AAAC Casablanca conductor with loading limit of 75MW in each circuit. However, replacement of 400/1 CTs with 600/1 CTs is yet to be done, for which the generators at both ends have been asked to divert some CTs for the purpose	SLDC Meghalaya intimated the forum that the line work has been completed and the re-conductoring is done with ACCC Casablanca conductor with a continuous operating current of 875 A for each circuit. However, replacement of the existing CTs of 400/1 A with CTs of 600/1 A will be done for the time being (till appropriate CTs are procured) by diverting from other stations

The Sub-committee confirmed the minutes of 198th OCCM of NERPC with the above modification(s).

B. FOLLOW UP AGENDA ITEMS

B.1. Operational Performance and Grid discipline during January, 2023:

NERLDC presented the report on Operational Performance and Grid Discipline for the month of January, 2023. (Annexure B.1)

The sub-committee noted as above

B.2. Generation Planning (ongoing and planned outages)

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

Plants	Reservoir level in meter (as on 20/02/2023)	MU content	Present DC (in MU)	No of days as per current generation
Khandong + Kopili stg II	Under outage and restoration process going on	Under outage and restoration process going on	0	Will be "0" until further intimation.
Kopili	Under outage and restoration process going on	Under outage and restoration process going on	0	Will be "0" until further intimation.
Doyang	311.90	8	0.16	50
Loktak	766.63	16	0.24	67

b. The outage of other generating stations was approved considering the present water levels in reservoirs and long-term outage of Kopili and Khandong HEPs. The list of outages of generating stations is provided in **Annexure B.2**.

The sub-committee noted as above

B.3. Outage Planning Transmission elements

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

Furnishing request of shut down of the element, which was approved by NERPC, by Indenting Agency (ISTS licensees/STUs/Generating Companies) to NERLDC: Planned shutdown approved by NERPC shall be considered for implementation by NERLDC on D-3 basis. If an outage is to be availed on say 10th of the month, the shutdown availing agency would reconfirm to NERLDC on 7th of the month by 10:00 Hr. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC.

It was decided in the previous OCCM that shutdown would be granted from the 1st day of the following calendar month to the 30th/31st day of the same month. The list of shutdowns for transmission elements is provided at **Annexure B.2.**

The sub-committee noted as above

B.4. Estimated Transmission Availability Certificate (TAC) for the month of December, 2022:

Transmission Utilities have submitted the outage data for the month of December, 2022. The attributability of outage of the said elements has been finalized by NERLDC & NERPC. The Availability percentage of the transmission elements of ISTS licensees for the month of December, 2022 is as follow:

SN	ISTS Licensee	Availability for Dec'22 (%)
1	NETC	99.7508%
2	KMTL	98.7864%
3	NER-II TL	100.0000%
4	PGCIL	99.7658%

The sub-committee noted as above

B.5. Mock Black Start Exercise:

The previous mock black start & restoration exercise has been conducted at various generating stations in NER on the dates mentioned in the following table:

As per regulation 5.8 (b) of IEGC, mock black start shall be carried out by Users/CTU/STUs at-least once in 6 months.

Status as updated in the 198th OCCM:

Plant Name	Performed On	Due Date	Schedule of Testing as per 198 th OCCM
AGBPP	.....	.....	after upgradation of DG under R&M
AGTTCCPP	09.04.2019	09.10.2019	To be done on 27 th Jan'23
PareHEP	25.01.2020	25.07.2020	1 st week of Feb'23*
Kopili HEP	10.05.2019	NA	NA
Kameng HEP	.....	.....	In Lean Hydro season**
Doyang HEP	-	-	Completed on 21 st Oct'22
KopiliStg-II	-	-	Under prolonged shutdown
RHEP	-	-	Done on 28 th Nov'22

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*Regarding Pare HEP, the option of synchronizing the generator from Chimpu end was to be explored and the exercise was to be done before 2nd Feb'23.

**Regarding Kameng HEP, NEEPCO to resolve the MVAR setting issues of Kameng generator in consultation with BHEL.

Deliberation of the sub-committee

Following status was updated in the 199th OCCM:

Plant Name	Performed On	Due Date	Schedule of Testing as per 198 th OCCM
AGBPP	.....	.....	after upgradation of DG under R&M*
AGTTCCPP	09.04.2019	09.10.2019	Done on 4 th Feb. 2023
PareHEP	25.01.2020	25.07.2020	Done on 15 th Feb. 2023
Kopili HEP	10.05.2019	NA	NA
Kameng HEP	.....	.....	In Lean Hydro season**
Doyang HEP	-	-	Done on 21 st Oct'22
KopiliStg-II	-	-	Under prolonged shutdown
RHEP	-	-	Done on 28 th Nov'22

* Regarding AGBPP, GM NEEPCO updated that R&M of DG is under proposal stage only. He further expressed concern on conducting MBS exercise on gas based thermal machines. However, OTPC pointed out that, the same type of machines (Frame 6 machine), do have the MBS facility and they have conducted the MBS exercise with these machines. Forum also highlighted that AGTCCPP machines are capable for black starting.

After brief discussion, on the request of the forum, GM, NEEPCO assured that he will look into the matter and make necessary arrangements to make the machine at AGBPP compatible for the MBS exercise.

** Regarding Kameng HEP, GM NEEPCO updated the following issues which are lingering with the OEM, M/s BHEL.

- i. Some data missing in DAVR, which resulted into unusual deviation between LV side reactive power (17MW) and HV side reactive power (43 MVAR). This mismatch has restricted the capability of the plant to provide/absorb the line charging reactive power.
- ii. Draft procedure published by M/s BHEL contains unnecessary changes in the circuitry of the Kameng s/s and Balipara s/s, rendering the process cumbersome and

impractical. NEEPCO has conveyed the apprehension to BHEL and recommended for some changes in the procedure. Reply from the OEM side is still awaited.

ED NERLDC suggested that the matter could be taken up jointly by NERPC, NERLDC and NEEPCO with the OEM M/s BHEL.

Forum decided that a special meeting may be convened with the OEM M/s BHEL by NEEPCO in presence of NERPC and NERLDC and matter may be resolved at the earliest.

Further, Sr. GM NERLDC informed that since almost all the Plants have completed the MBS exercise, the process has to be restarted in order to comply with the IEGC grid code ie., MBS exercise is to be done once in six months.

The sub-committee noted as above

Action: NEEPCO & NERLDC

B.6. Status of ADMS:

Status for Automatic Demand Management Scheme in 7 states of NER. The SLDCs informed the latest status as follows:

Name of the utility	SAT Completion	DoCO
DoP Ar. Pradesh	27-01-2021	Enabled & in-operation
AEGCL/APDCL	07-12-2020	Enabled & in-operation
MSPCL	24-11-2020	Enabled & in-operation
MePTCL/MePDCL	31-08-2020	Enabled & in-operation
P&ED Mizoram	22-02-2021	Enabled & in-operation
DoP Nagaland	17-11-2020	Enabled & in-operation
TSECL	24-12-2020	Enabled for three substations while yet to be enabled for other three substations

As updated in the 198th OCCM:

1. SLDC TSECL reiterated that ADMS at Takerjhala, Bishalgarh and Badarpur can be enabled only after the completion of works by NERPSIP.
2. All the states except Mizoram are yet to change the logic as per new DSM regulation

Deliberation of the sub-committee

1. SLDC, TSECL reiterated that ADMS at Takerjhala, Bishalgarh and Badarpur will tentatively be enabled by the end of March'23. Also, NERPSIP updated that most of the work is completed.
2. Regarding change in logic, States intimated their schedule as follow-
 - a. Tripura: by next week (for 2 stations, where ADMS is already enabled)
 - b. Arunachal Pradesh: by next OCCM
 - c. Assam: changed on 15th Feb'23

d. Meghalaya: Done

Director, NERPC asked the States to send report regarding logic updation to NERPC and NERLDC.

Also, the forum opined that frequency setting in the logic has also to be changed to 49.90 Hz from 49.85Hz as per provisions of DSM 2022 regulations.

The sub-committee noted as above

Action: All concerned States

B.7. Violation of state wise TTC/ATC:

As per POSOCO KPI, NERLDC has to report the violation of import TTC/ATC of NER states in daily, weekly and monthly basis. It has been observed that most of the NER states are not N-1 secure causing violation of TTC/ATC limit although the actual drawl remains within the schedule values. Violation has been observed in case of Assam, Meghalaya, and Tripura states.

The TTC/ATC calculation of States done by NERLDC is as follows:

State	Time Period	N-1 considered	Limiting element	TTC	RM	ATC
Arunachal Pradesh	Off-Peak	132kV Lekhi – Pare	132 kV Pare – Itanagar S/C	195	5	190
	Peak			195	5	190
Assam	Off-Peak	220kV Misa-Samaguri I or II	220 kV Balipara-Sonabil	1730	40	1690
	Peak			1600	40	1560
Manipur	Off-Peak	132kV Imphal MA-Imphal PG Ckt I	132 kV Imphal (MA)-Imphal (PG) II & III	320	5	315
	Peak			320	5	315
Meghalaya	Off-Peak	132 kV Umiam3 – Umiam	132 kV Umiam-Umiam Umiam 1 II	340	10	330
	Peak			260	10	250
Mizoram	Off-Peak	132 kV Melriat-Silchar I or ORII	132 kV Aizawl-Luangmual S/C	160	5	155
	Peak			155	5	150
Nagaland	Off-Peak	220/132 kV ,100 MVA Dimapur ICT	220/132 kV ,30 MVA Mokokchung ICTs	255	5	250
	Peak			290	5	285
Tripura	Off-Peak	132 kV SM Nagar(ISTS) Budhjungnagar S/C	132 kV SM-Nagar (TR) – SM Nagar (ISTS) S/C	340	6	334
	Peak			315	6	309

In previous OCC meeting(s) it was decided that in the event of any major shutdown(approved/emergency) the state periphery ATC/TTC shall be calculated by respective SLDC and communicated to NERLDC.

As agreed in previous OCCMs, all the states are requested to provide the respective ATC/TTC to NERLDC on monthly basis.

Deliberation of the sub-committee

NERLDC apprised the forum that all the states except Arunachal Pradesh are providing the ATC/TTC report regularly to NERLDC. Also, NERLDC appreciated that Meghalaya SLDC is doing extensive ATC/TTC study in case of any major shutdown.

SE, SLDC, DoP Ar. Pradesh stated that there is severe shortage of skilled manpower at the SLDC to undertake the ATC/TTC calculation. He however informed that Ar. Pradesh will undertake the ATC/TTC calculation.

ED, NERLDC stated that the CABIL Report was published to highlight the issues related to strengthening of LDCs and CERC has also recommended the state governments to strengthen their SLDCs.

Director NERPC stated that the recommendations of the CABIL report with regard to strengthening of SLDC's manpower will be discussed in the RPC board meeting. He also requested NERLDC to advise the NER SLDCs on minimum manpower standards required to run a Load Dispatch Center properly based on the CABIL report.

The sub-committee noted as above

Action: Arunachal Pradesh

B.8. Issues pertaining to Kopili & Khandong.

A. Load restriction in Meghalaya Power System due to planned outage of Khandong HEP & Kopili Stg-II:

The planned shutdown of Khandong HEP and Kopili Stage II has been approved from 10.01.2022 to 09.05.2022 in the 185th OCCM for the following activities:

- a. Inspection and repairing of Khandong Head Race Tunnel, Trash Rack Gate, Intake Gate, Surge Shaft Gates, Steel Liner of HRT etc.
- b. Acid Proof Coating of Stage-II Penstock
- c. Installation and commissioning of Penstock Protection BFV System of Khandong
- d. Annual Planned Maintenance of Khandong Unit# I & II.

Decisions as per previous meetings: (i) Meghalaya System shall be operated by opening of 132kV Mawngap-Nongstoin T/L right from the start of Khandong HEP shutdown. (ii) In normal circumstances no load shedding is required and Meghalaya can continue to cater full demand based on present generation scenario. (iii) In event of tripping of any one circuit of 132kV UiamStg-I to UiamStg-III D/C SLDC Meghalaya shall swiftly shed load till loading of 132kV UiamStg-I to UiamStg-III S/C is within limit

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and also increase generation from UmiamStg-I HEP and Leshka HEP. (iv) based on Real Time Condition Mawphlang may be shifted to be fed from Agia side after concurrence of NERLDC, (v) Early restoration of Misa-Kopili-Khandong link by NERTS/NEEPCO.

In 196th OCCM it was highlighted that Meghalaya Power system to operate in bifurcation mode (132kV Mawngap-Nongstoin T/L shall be opened and Nongstoin, Nangalbibra, Tura and Ampati to be fed from Agia) with installation of 20MVAR capacitor banks at 132/33kV NEHU SS till the reconductoring of Umiam stgI-stgIII D/C reconductoring work is done. After the reconductoring, it will shift to closed loop mode wherein maximum of 380MW maximum demand can be met with 107 MW Meghalaya internal generation.

B. Restoration works at Khandong and Kopili substations

Following the discussions in the 189th OCC and in the special meeting held on 27.04.2022 in presence of representatives from NERPC, NERLDC, NEEPCO, NERTS and AEGCL, Khliehriat – Khandong – Umrangshu link was charged as an interim special arrangement.

Khandong

1. One CRP for Khandong-Umrangso feeder at Khandong end is procured and expected to be commissioned by NEEPCO before February 2022.
2. One Temporary KIOSK room has been identified and Cable trenches are under Construction and, cables are being re-routed.
3. For availability of Khandong Khliehriat line, POWERGRID was requested to install 1(one) BCU based CRP February-2023. Status of the same may kindly be shared with NEEPCO.
4. NERTS, POWERGRID was requested to ensure the installation of PLCC panel for Khandong – Khliehriat line alongwith FOTE panels for digital and analog data/voice, protection and communication to NERLDC before synchronization of the Khandong Stage-II.
5. AEGCL was requested to provide a PLCC Panel for Khandong-Umrangso line and NEEPCO was to provide the 48V battery bank with charger for PLCC. Status of the same may please be intimated to NEEPCO.

Kopili

1. 48V DC supply for PLCC panels is being undertaken by NEEPCO. PGCIL provided the load requirement of 20A max.

C. Recommissioning of 1X25 MW Khandong Stage-II plant

NEEPCO is planning to re-commission and synchronize 1X25MW Khandong Stage-II unit within this current financial year. Since all the Control & relay panels are submerged and damaged beyond repair during the inundation on 26.03.2022, for successful commissioning of the unit, the Khandong Switch Yard has to be adequately restored within February – 2023 and for reliable evacuation, any of the Khandong-Khleihriat ckt1 or ckt 2 along with 132kV Khandong-Umrangshu line (with full protection system) is required. And for evacuation of 2 units of Kopili, which are poised to come in May'23, either 220kV Misa-Kopili DC or Kopili-Khandong DC is required.

In 198th OCCM following points were discussed

A. Load Restriction in Meghalaya Power system:

- i. Regarding Jiribam-Haflong line, DGM PGCIL intimated that the meeting of National Board for Wildlife on the issue had taken place on 29th December 2022 and the minutes of the meeting is likely to be issued in the first week of February 2023, after which Level 1 clearance will be provided to PGCIL
- ii. Regarding reconductoring of Umiam sgt I- stg III D/C, line work is completed, CT replacement is underway. Till reconductoring is completed, Meghalaya power system to operate in bifurcation mode.
- iii. Regarding commissioning of Mawngap-Killing line, Manager NERPSIP updated that RoW issue is still unresolved and the matter is being discussed with the State government.

B & C. Restoration of Khandong& Kopili substations and Recommissioning of 1x25 MW Khandong stg II:

- i. AEGCL updated that PLCC panel for Khandong-Umrangshu line will be provided by 15th Feb 2023.
- ii. GM, NEEPCO updated the recommissioning dates of plants as follow-

Sr. No.	Stations	Expected Revival Date
a.	Kopili 2 units (2x50)	May'23
b.	Kopili other 2 units (2x50)	May'25
c.	Khandong units 1 and 2 (2x25)	May'25
d.	Khandong stg II (1x25)	March'23

- iii. GM NEEPCO informed that for reliable evacuation of Khandong stg 2, any of the Khandong-Khleihriat ckt1 or ckt 2 along with 132kV Khandong-Umrangshu line

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(with full protection system) is required. And for evacuation of 2 units of Kopili, either 220kV Misa-Kopili DC or Kopili-Khandong DC is required.

- iv. PGCIL intimated the forum that restoration of Koipili-Khandong DC will take longer period, so reliable evacuation could take place through Misa-Kopili DC provided NEEPCO completes its Switchyard and Bay revival works at Kopili substation on time.
- v. Regarding restoration works at Khandong switchyard, the Kiosk room will be ready by Feb'23 as intimated by NEEPCO and about placing the CRPs in the Kiosk room, PGCIL updated that the required CRPs are to be transferred from Srikona substation, which will be done after incorporating some modifications in the CRP.
- vi. Regarding complete restoration of Khandong-Khleihriat DC, DGM PGCIL updated that the line side work (which involves erection of two DC towers) will be completed by 15th March'23 and Switchyard side work will be completed by end of March'23.

Deliberation of the sub-committee

A. Load Restriction on Meghalaya Power system

- i. CGM PGCIL intimated that NBW clearance as well as clearance from Assam Forest Department has been obtained and assessment of corpus amount for afforestation is under process by the concerned DFO. After that, NHIDCL will deposit the requisite amount and applications for RIO clearance will be applied by PGCIL. He further updated that considering the processes involved the line may be charged within next 20 days.
- ii. Regarding reconductoring of Umiam stg I-stg III, Meghalaya updated that the required CTs with appropriate rating will be arranged by 2nd week of March, 2023.
- iii. Manager, NERPSIP stated that RoW issue in Mawngap section still persists and meetings at highest administrative level are being held. Matter will further be taken up after the Meghalaya state assembly elections.

B & C. Restoration of Khandong& Kopili substations and Recommissioning of 1x25 MW Khandong stg II:

- i. Regarding PLCC for the Khadong-Umrangshu line, AEGCL updated that M/s ABB has submitted the cost estimated in Feb'23 and PLCC will be supplied within one month.
- ii. About revival schedule, GM, NEEPCO updated that one unit of Kopili will come in May'23 while second in June'23. Also, Khandong stg II may come by March'23 or in the 1st week of April'23.

iii. Regarding complete restoration of Khandong-Khleriat D/C, PGCIL updated that cabling and termination work has started and the whole work (line side and switchyard) will be completed by end of March'23. He therefore assured that transmission system for evacuation of Khandong stg II will be ready on time.

iv. Regarding works at Kopili, PGCIL updated that GIS erection work (for Khandong D/C and ICT I and II) will start soon and M/s GE has to supply SAS based CRP Panels (for Khandong ckt I and ICT 1), for which some delay is expected and the whole work will tentatively be completed by July'23.

The sub-committee noted as above

Action: PGCIL, NEEPCO, AEGCL & MePTCL

B.9. Implementation of Guwahati Islanding Scheme:

In the 190th OCCM, DD, NERPC stated that in the Special Meeting on 13th May'22 it was decided that dedicated fiber is required in order to ensure Cyber Security. AEGCL intimated that Dedicated Fiber is available in the link SLDC – Sarusajai – Mirza – Boko – Agia – BTPS – BgTPP and offered the same for the Islanding Scheme.

The forum requested NERTS to explore the availability of dedicated fiber. Member Secretary, NERPC stated that after budgetary offer is received from at least two vendors the DPR will be finalized.

In 195th OCCM, Member Secretary, NERPC informed the forum that the budgetary offer from M/s GE has been received. He added that the DPR for the Guwahati Islanding Scheme shall be finalized by Oct, 2022.

In 196th OCCM, Member Secretary NERPC updated that the finalized DPR was discussed in 23rd NERPC meeting and issue of high cost was flagged. So, re-estimation of project cost will be done at the earliest.

In the 198th OCCM, AEGCL was requested to re-examine the cost estimates in the DPR and intimate the subcommittee.

Deliberation of the sub-committee

AEGCL updated that the substations identified under the Guwahati islanding scheme are mostly devoid of OPGW connectivity with the SLDC and thus OPGW requirement is high. However, other OPGW suppliers are being consulted to reduce the cost implication.

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After detailed deliberation, the forum decided that the empowered committee on islanding scheme will reassemble and explore the option of using existing fiber optic links, wherever present (on bandwidth sharing basis) and mull over the ways to reduce total cost of the islanding scheme. The report of the committee will be regularly discussed in the NeTEST meetings.

The sub-committee noted as above

Action: NERPC

B.10. Furnishing details of upgraded UFR settings along with list of feeders and quantum of load:

Status as updated in the 198th OCC meeting

Name of the state/utility	Submission of revised UFR list	Implementation of revised settings	Status of mapping
Ar. Pradesh	Submitted	Stg-1 (49.4Hz) implementation in new feeders. UFR to be procured by July'22, implementation to be done by Mar'23	Coordination with M/S GE is ongoing, tentative completion by March'23
Assam	Submitted	Installation Completed. UFR to be shifted to Samaguri for 132kV Khaloigaon-Samaguri line.	Done
Manipur	Not submitted	No extra shedding required only Stage upward revision to be done. ADMS and UFR feeder segregation to be done for Stage-I by next OCCM	To be done
Meghalaya	Submitted	17 out of 17 feeders completed. Forum requested to share the points with RLDC SCADA	Done
Mizoram	To be submitted	Completed	Done
Nagaland	Submitted	Completed	Completed
Tripura	Submitted		

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		Stage-1(49.4Hz), Stage-2 (49.2Hz), Stage-3(49Hz) require installation of UFR. Stg I UFR installed	Mapping by Feb'23
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Deliberation of the sub-committee

Status as updated in the 199th OCC meeting

Name of the state/utility	Submission of revised UFR list	Implementation of revised settings	Status of mapping
Ar. Pradesh	Submitted	Stg-1 (49.4Hz) implementation in new feeders. UFR to be procured by July'22, implementation to be done by Mar'23	Coordination with M/S GE is ongoing, tentative completion by March'23
Assam	Submitted	Installation Completed. UFR to be shifted to Samaguri for 132kV Khaloigaon-Samaguri line.	Done
Manipur	Not submitted	No extra shedding required only Stage upward revision to be done. ADMS and UFR feeder segregation to be done for Stage-I by next OCCM	To be done
Meghalaya	Submitted	17 out of 17 feeders completed. Forum requested to share the points with RLDC SCADA	Done
Mizoram	To be submitted	Completed	SCADA display has been made at SLDC but real time data is not reporting. The SCADA display is to be

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			shared with NERLDC.
Nagaland	Submitted	Completed	Completed
Tripura	Submitted	Stage-1(49.4Hz), Stage-2 (49.2Hz), Stage-3(49Hz) require installation of UFR. Stg I UFR installed	Mapping by Feb'23

The sub-committee noted as above

Action: All concerned States/Utilities

B.11. Primary Frequency Response testing plan of remaining units in NER:

Primary Frequency Response Testing of generator units is being carried out in line with the Clause no.5.2(g) of Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010.

Schedule as agreed in the 198thOCC meeting:

Region	Station	No. of generators	Suggested Schedule		Duration (days)
			Test Start	Test End	
NER	NEEPCO-Monarchak	1	26 th July'22	28 th July'22	done
NER	NEEPCO-Kameng	1 (by M/s Solvina)	Oct'22	Oct'22	Done on 20 th , 21 st Oct, 2022
NER	OTPC-Palatana	2 (by M/s Solvina)	Nov'22	Nov'22	To be done*
NER	Doyang-NEEPCO	2 (by M/s Siemens)	Oct'22	Oct'22	4(water level to be sufficient enough to run the units at full capacity)

*In the 198th OCCM, OPC Palatana informed that in a meeting between the stakeholders concerned on 22nd December'22, the OEM, M/S BHEL raised reservations on the PFR testing procedures. OPC requested OEM to provide procedure for the testing, however no response has yet been received from BHEL.

Deliberation of the sub-committee

Regarding Testing at Palatana station, OPC intimated that M/s BHEL has raised concern about the standard procedure that in case the change in actual grid frequency opposes the simulated frequency input, the governor action will be unpredictable and might be dangerous also which in turn will compromise the safety of the machine. Consequently, BHEL has proposed for some modification in the software procedure, which will abort the testing procedure when a mismatch is detected. The modified

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procedure will be tested within 1 month and the machine is expected to be ready for PFR test procedure by the end of June, 2023. OTPC however added that details of the suggested modifications is yet to be received from M/s BHEL and assured that the same shall be provided to NERLDC and NERPC once received from M/s BHEL.

Regarding testing at Doyang HEP, NERLDC highlighted that due to insufficient water at Doyang, conducting PFR testing might not be possible at all for the present season, so testing of other unit of Kameng by M/s Siemens can be mooted. GM, NEEPCO expressed hope that Doyang might get sufficient water for the testing soon and requested the forum to keep the PFR testing schedule at Doyang as per the original plan for the time being.

Therefore, it was decided that PFR testing at Doyang HEP will still be explored.

The sub-committee noted as above

Action: OTPC, NEEPCO & NERLDC

B.12. Regular furnishing of Patrolling report for all Important Lines to NERLDC/NERPC

There is a requirement of regular and proper maintenance of transmission lines. It is requested to carry out the patrolling activities as per CIno.23(2), (3) & (4) of CEA Grid Standards Regulation, 2010 on regular basis and submit the report to NERPC/NERLDC.

It is requested to upload DR, EL& FIR outputs for transmission lines in the NERLDC tripping portal in line with Cl.5.2 R of IEGC 2010 Regulations.

In 198th OCCM, NERLDC updated that Patrolling reports have been received from all states except Tripura. After detailed deliberation, MS NERPC requested all the states to submit the reports in timely manner.

Deliberation of the sub-committee

After detailed deliberation, MS NERPC requested all the states to submit the reports in timely manner. He further impressed upon members to have pre-monsoon exercise for maintenance of transmission elements so as to minimize outages and disturbances during monsoon season.

The sub-committee noted as above

Action: All concerned States

B.13. Monthly Review of LGBR

PARTICULARS (Peak Demand in MW as per LGBR vs Actual)	Nov-22 (LGBR)	Nov-22 (Actual)	Dec-22 (LGBR)	Dec-22 (Actual)	Jan-23 (LGBR)	Jan-23 (Actual)
Arunachal Pradesh	161.41	125	142.19	144.74	128.42	166
Assam	1700.00	1714	1470.00	1586.27	1533.00	1643
Manipur	216.00	219	265.00	245.67	287.00	248
Meghalaya	355.00	381	368.00	394.41	384.00	404
Mizoram	127.55	135	133.35	143.34	132.99	159
Nagaland	155.00	165	160.00	152.09	165.00	139
Tripura (exc. Bangladesh)	260.00	282	240.00	240.56	230.00	247.71
NER DEMAND (exc. Bangladesh)	2962.00	2905	2774.00	2905	2680.00	2866

PARTICULARS (Energy Requirement in MU as per LGBR vs Actual)	Nov-22 (Actual)	Nov-22 (Actual)	Dec-22 (LGBR)	Dec-22 (Actual)	Jan-23 (LGBR)	Jan-23 (Actual)
Arunachal Pradesh	66.42	69.1	67.53	77.81	72.81	75.01
Assam	780.67	811.610	775.57	813.88	770.53	814.320
Manipur	88.92	77.12	101.43	103.86	107.70	104.6
Meghalaya	183.22	199.43	209.04	222.42	213.03	223.25
Mizoram	77.61	51.76	57.25	65.43	65.63	65.33
Nagaland	64.94	64.31	73.05	72.88	68.16	65.81
Tripura (excl. Bangladesh)	114.39	120.53	108.78	114.26	110.21	118.43
NER DEMAND (exc. Bangladesh)	1367.71	1393.86	1374.44	1470.54	1368.52	1467.423

Deliberation of the sub-committee

The forum noted that LGBR projections are broadly in line with the actual demand of states.

The sub-committee noted as above

B.14. Installation of AWS by IMD Guwahati

It was informed in 158th OCCM that RMC, IMD, Guwahati would install Automatic Weather Station (AWS) in NER. As per the proposed list of stations by the constituents, IMD has surveyed the stations and has mentioned the requirement of NoC for the suitable stations.

NERLDC vide emails dated 10.01.2023 to all the states requested to facilitate for signing of MoU with IMD Guwahati for installation of AWS in NER substations.

In 198th OCCM, NERLDC intimated that modified MoU by IMD has been shared with all the States by e-mail. Assam informed that approval of the MoU has been obtained and the same would be signed soon. Ar. Pradesh informed that the MoU would be

signed shortly. All other States were also requested to check the MoU and expedite for signing at the earliest.

Deliberation of the sub-committee

Assam updated that IMD had proposed some modifications in the draft MoU and they have accepted the same. Signing of the MoU will take place shortly.

The forum requested NERLDC to facilitate signing of the MoU between Assam and IMD. ED, NERLDC agreed to facilitate the signing of MoU between Assam & IMD and also stressed on the importance of expediting the process of signing the MoU as early installation will help the states in forecasting the load accurately.

Arunachal Pradesh mentioned that the draft MoU has been sent to Government of Arunachal Pradesh for approval. The forum requested all States to sign the MoUs at the earliest.

The sub-committee noted as above

Action: All concerned States, NERLDC

B.15. Status of implementation of SPS in Assam Power System:

As per the minutes of Sub-group meeting held on 27.09.22, SPS for load reduction in capital area of Assam power system on tripping of 220 kV Azara-Sarusajai D/C or 220 kV Misa-Samaguri D/C was recommended for safe and reliable operation with the following tripping conditions:

Triggering condition 1: Tripping of 220kV Azara – Sarusajai D/C SPS action: Tripping of 132kV Kahilipara – Kamalpur and 132 kV Sarusajai – Kamakhya lines. For tripping of 132 kV Kahilipara – Kamalpur line, OPGW connectivity between Sarusujai and Kahilipara will be used to send the tripping signal for tripping Kamalpur feeder at Kahilipara.

Triggering condition 2: Tripping of 220kV Misa - Samaguri D/C SPS action: Tripping of 132kV Samaguri-Sankardevnagar Line

AEGCL may update on the latest status regarding implementation status of the proposed SPS.

In 198th OCCM, AEGCL raised concern on Tripping condition 1 that there is heavy loading in the Kamakhya and Sishugram area due to presence of Railways and Industries and outage of 132kV Sarusajai-Kamkhya line may lead to heavy load loss. Also, the financial implication, if any, on implementing SPS logic at Substations- was

raised by Assam. After detailed deliberation, the forum decided to revisit the scheme and a special meeting will be organized to discuss the matter holistically.

Deliberation of the sub-committee

NERLDC intimated that a bilateral meeting with SLDC Assam was held on 1st Feb'23 and Assam agreed to the proposed SPS scheme for tripping condition 1 with additional load cutting of 20MW at Narengi S/S.

SLDC AEGCL updated that identification of 33kV feeders for load cutting of 20MW at Narengi S/S is going on in consultation with APDCL and once logic is finalized, cost estimate will be decided.

Regarding tripping condition 2, AEGCL agreed to implement the scheme without any modification and the work will start after obtaining their administrative approval.

The sub-committee noted as above

Action: AEGCL & NERLDC

B.16. Installation of 10 MVAR Bus Reactor at 132 kV Meluri S/S for Closed loop formation of Kohima-Meluri-Kiphire-Tuensang-Mokokchung link

132 kV Kohima S/S is presently connected with the rest of the NER grid via 132kV Karong-Kohima line, 132 kV Kohima-Chiephobozou-Wokha-Sanis-Doyang link, 132 kV Dimapur-Kohima line & 132 kV Kohima-Meluri line but Kohima-Meluri-Kiphire-Tuensang-Mokokchung link is generally kept open from Kiphire end. Kohima S/S caters to the load of Capital area of Nagaland Power System; hence the availability of Kohima S/S is very important. However, this area is prone to frequent grid disturbances due to its geographical location.

On 2nd Nov'22 at 13:52 hrs during the visit of Hon'ble President of India, Grid disturbance occurred in Kohima area of Nagaland Power System with a load loss of 19 MW and generation loss of 8MW making it a critical situation.

Forming closed loop connection of Kohima-Meluri-Kiphire-Tuensang-Mokokchung will strengthen the connectivity of Kohima S/S and upgradation of 66kV Kiphire-Tuensang-Mokokchung link to 132 kV will enhance the reliability and security of the Capital area of Nagaland Power System. However, high voltage issue at Meluri S/S (upto 145 kV) is observed in the present condition. As per system study, installation of Bus reactor of 10 MVAR capacity at Meluri S/S will resolve the issue. Hence, the Kohima-Meluri-Kiphire-Tuensang-Mokokchung link at 66kV or 132 kV can be kept in

closed loop only after installation of 10MVAR Bus Reactor otherwise high voltage condition will persist in Meluri and Kohima S/S.

DoP, Nagaland is requested to install the reactor at 132 kV Meluri S/S for closed loop operation of the above-mentioned link and expedite the upgradation works of the same to 132 kV.

In 196th OCCM the forum had approved for installation of 10MVAR switchable line reactor at Meluri s/s to address high voltage scenario as highlighted by NERLDC and requested Nagaland to complete the upgradation of 66kV Mokokchung-Tuensang-Kiphire link to 132kV at the earliest. Also, the matter was referred to CMETS meeting, but CTU pointed out that concerned substations and lines are intra-state elements, so planning related to these elements is beyond its ambit. Therefore, the matter is referred to sub-committee for further deliberation.

Deliberation of the sub-committee

The matter could not be discussed because of absence of representative of DoP Nagaland. However, NERLDC was advised to take up with DoP Nagaland for expediting the work.

The sub-committee noted as above

B.17. Regarding construction Power 132KV line for upcoming TATO -I, II and HEO Hydro Electric Power Project.

NEEPCO is all set to start the Project activity of Tato - I, II and Heo H.E Project at Shi Yumi district of Arunachal Pradesh from this financial year. In order to execute the following point may be looked into.

1 Power Evacuation point: NEEPCO shall initially harness 1125 MW from these three projects and two more project namely Naying and Hirong is in pipeline. Therefore, power evacuation point for all the project may be located at Tato-II Power Site.

2 Initially to start the project activity it is required to have 132 KV at Tato Shi Yumi district which will be initially utilized for construction power and after that it can be utilized for power evacuations.

It is understood that there is one 132KV line under construction from Kamba to Mechoka via Tato under the Comprehensive Scheme. One sub-station either at Heo or Tatao I power house can also be planned under that Scheme. Else, the line please be constructed at a faster pace and NEEPCO can make a LILO at a suitable location at

Tato Shi Yumi district to cater the construction power of the said upcoming H. E. Projects in coordination with DoP, Arunachal Pradesh.

Deliberation of the sub-committee

GM, NEEPCO requested DoP Ar. Pradesh to set up one substation at Tato II area at Tato under the scope of comprehensive scheme or make a LILO of the Kamba Mechoka line at Tato II so that construction power can be provided for the upcoming HEP projects of NEEPCO in the area.

SE SLDC, DoP Ar. Pradesh apprised the forum that Kamba Mechoka line under the scope of comprehensive scheme will be initially charged at 33kV as load requirement is low in the Mechoka area and suggested that LILO of the line would be a better option. He asked GM NEEPCO to write a request letter to CE (Transmission) DoP Ar. Pradesh for LILO of the line at Tato.

The forum appreciated the need for timely provision of the dedicated feeder for construction power to NEEPCO and exhorted PGCIL Comprehensive Scheme to expedite the commissioning of Kamba-Mechoka line.

The sub-committee noted as above

Action: NEEPCO & Ar. Pradesh

B.18. Telemetry and Communication system issues of projects commissioned under NERPSIP & Comprehensive schemes:

The latest list of substations and transmission lines not having telemetry as on 07.02.23 is mentioned as below: NERPSIP may provide the updated telemetry targets:

Sl. No	Scheme	Name of Element	Name of Owner	Remarks
1	NERPSIP	Mohanpur	TSECL	Not reporting
2	NERPSIP	132 kV Mokokchung-Mariani line LILO at Longnak and 132kV Bay & 33kV GIS Bay and associated equipments at Longnak Substation	DoP, Nagaland	Not reporting. Station is not modelled in SLDC Nagaland SCADA.

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3	NERPSIP	132/33 kV, 31.5 MVA Power transformer at Ambassa substation	TSECL	Not reporting
4	NERPSIP	132kV Sonabil-Tezpur line 1 132kV Sonabil-Tezpur line 2	AEGCL	Reporting with ambiguous values. At Sonabil end, line 2 shows charged whereas at Tezpur end line 1 show charged. CB status at Sonabil end is suspect. Tezpur station whole data is intermittent.
5	NERPSIP	132/33 kV Tezpur Substation	AEGCL	Reporting with ambiguous values. At Sonabil end Line 2 shows charged whereas at Tezpur end line 1 show charged. Tezpur station whole data is intermittent.
6	Comprehensive	132/33KV Bay extension and 16 MVA Transformer at Dukumpani(Tenga) Substation	DoP, Arunachal Pradesh	Not reporting. Element is not modelled in SLDC Arunachal SCADA.
7	NERPSIP	132 kV Rabindranagar - Rokhia line	TSECL	Not reporting. Element is not modelled in SLDC Tripura SCADA.
8	Comprehensive	132 kV Basar S/s	DoP, Arunachal Pradesh	Not reporting. Station is not modelled in SLDC Arunachal SCADA.

Deliberation of the sub-committee

Status as intimated by NERPSIP

Sl. No.	Scheme	Name of Element	Name of Owner	Remarks
1	NERPSIP	Mohanpur	TSECL	The fiber link break issue in the existing line was resolved by state utility on 17.01.2023 and informed to POWERGRID by 18.01.2023. SAS engineers and FOTE

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				engineers are working at site. FOTE link established. VOIP connection has been tested with SLDC. Data routing will be completed by 25.02.23
2	NERPSIP	132 kV Mokokchung-Mariani line LILO at Longnak and 132kV Bay & 33kV GIS Bay and associated equipments at Longnak Substation	DoP, Nagaland	As informed in the previous OCC and NETeST meetings, fiber link from Mokokchung to LILO point has to be made ready by State utility.
3	NERPSIP	132/33 kV, 31.5 MVA Power transformer at Ambassa substation	TSECL	Wiring between CRP to RTU will be done before 31.01.2023 RTU BI/BO cards & Augmentation is in State Scope. Termination details of BI/BO cards to be provided by state.
4	NERPSIP	132kV Sonabil-Tezpur line 1 132kV Sonabil-Tezpur line 2	AEGCL	Data is reporting in SLDC. 2 Breaker Status are not reporting to SLDC from the existing gateway, but all data are reporting in local SAS. The data were reporting from the gateway initially. However, POWERGRID will help to resolve the reporting of 2 CB status in coordination with state utility at the time of Siemens Engr deputation at Tinsukia SS in March 2023. Data reporting in SLDC (for line 2)
5	NERPSIP	132/33 kV Tezpur Substation	AEGCL	Data reporting in SLDC for the charged bays. The telemetry clearance for the

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				bays not charged (ICT # 02 bays & Line Ckt 1) will be taken separately before charging the bays.
6	Comprehensive	132/33KV Bay extension and 16 MVA Transformer at Dukumpani(Tenga) Substation	DoP, Arunachal Pradesh	Status to be obtained in the next NETeST Meeting
7	NERPSIP	132 kV Rabindranagar - Rokhia line	TSECL	Monarchak line is to be terminated at New Rabindranagar Substation by state utility. Existing Monarchak line is currently terminating in the old Rabindranagar Substation crossing the path of Rokhia Rabindranagar line. OPGW for Rabindranagar - Rohia line is to be laid. Awaiting shutdown of Rokhia - Rabindranagar line for completing this work.
8	Comprehensive	132 kV Basar S/s	DoP, Arunachal Pradesh	Status to be obtained in the next NETeST Meeting

The forum decided that as discussed in the 198th OCCM, a special committee, comprising the nodal officers from NERPC, NERLDC and all utilities will be formed for resolution of communication related issues pertaining to the projects under NERPSIP and Comprehensive schemes in a seamless and continuous manner. The progress on the issues taken up by the special committee will be discussed regularly in the NeTEST meetings.

In a related matter, SE, SLDC, DoP Ar. Pradesh highlighted that BASAR substation (LILO of 132kV Daporijo-Along line) is not reporting to RLDC and SLDC. So, he proposed for installation of OPGW in the LILO link connecting Basar ss to either Daporijo or Along substation and integrate to VSAT at connecting end.

The forum referred the matter to the special committee and NeTEST for further discussion.

List of Nodal officers (members of special committee)

Assam- Pranab Saha

Arunachal Pradesh- Purik Buchi

Meghalaya- D J Lyngdoh

Manipur- to be intimated/nominated in the coming NETeST

Mizoram- J H Malsawma

Nagland- to be intimated/nominated in the coming NETeST

Tripura- Smapa Sen

NERLDC- Sakaldeep

NERPC- Rajib

NERPSIP- Abhilash

Comprehensive- to be intimated/nominated in the coming NETeST

The sub-committee noted as above

C. NEW AGENDA ITEMS

C.1. Shutdown of lines of NEEPCO for early commissioning of Pare-N. Lakhimpur DC and providing separate gateway for 132kV Bays at North Lakhimpur at AEGCL: M/s Sterlite (MUML)

1. Request for providing shutdown of 132kV Ranganadi-Nirjuli line for 15days for completion of reconductoring of LILO, dismantling and re-erection of 2 nos of existing towers and bypassing of Ranganadi-Nirjuli line at Pare. The shutdown schedule is 25.03.2023 to 10.04.2023. The shutdown is important to complete the work on time (mid April'23), and before high hydro season (**Annexure-C.1.1**).

2. M/S AEGCL is requesting M/S MUML to place a separate gateway for communication pertaining to the 132kV Bays placed at its North Lakhimpur SS, there is no requirement of any additional gateway as in all other substations using same gateway for different utilities, such as in our recent project of NER-II no separate gateway provided in any substations of DoP, PGCIL etc. Letter written by AEGCL to NERLDC and Minutes of Meeting between AEGCL and MUML is attached herewith as (**Annexure-C.1.2**).

Deliberation of the sub-committee

M/S Sterlite intimated the forum that the tentative completion schedule of the following elements is mid-April'23:

- i. Commissioning of 132kV Pare-N. Lakhimpur DC
- ii. LILO of one ckt of Pare-N. Lakhimpur DC at Nirjuli substation
- iii. Straightening of LILO of RHEP-Nirjuli at Pare ss.
- iv. Reconductoring of the LILO portion at Pare with upgrade conductor

Sterlite further stated that for executing the work as mentioned above, shutdown of Rangandi -Pare- Lekhi TL is required with the following schedule-

- i. 10th March'2023 - 24th March, 2023, day time shutdown
- ii. 25th March'2023 -10th April, 2023, continuous shutdown

Assam gave consent for the above shutdown while Arunachal Pradesh approved for the shutdown subject to power support to Nirjuli and Lekhi area from Gohpur side. Assam agreed for the same, however, power supply from Gohpur may not be feasible on the 19th March' 23. Thus, the forum agreed for the abovementioned shutdown except on 19th March'23.

Sterlite further informed that S/D of Nirjuli-Lekhi for 4/5 days may also be required for commissioning activities of LILO at Nirjuli of Pare- N. Lakhimpur TL. The forum noted and decided to discuss as and when the need arises.

Sr. GM, NERLDC informed that incase above work fail to be restored within timeline, Pare HEP evacuation constraint will arise during monsoon and therefore generation back down may take place. GM NEEPCO exhorted M/s Sterlite to complete the ground work properly before proceeding for the continuous shutdown, so that the shutdown does not get extended into rainy season when generation backing down will cause heavy financial loss for NEEPCO.

Moreover, NERLDC opined that an SPS might be considered for protection of the generator at Pare HEP and preventing cascade tripping in case Pare HEP is stranded with only two 132kV lines (Ranganadi-Pare and Pare-Chimpu) for longer period. GM NEEPCO reverted that logic of tripping of one unit, in case of outage of one 132kV circuit connected with Pare substation, can be considered for implementation but provision of ramping down of machine cannot be implemented.

The forum requested M/s Sterlite to complete the work timely so that reliable evacuation path for Pare HEP can be ensured before the onset of high hydro season. The forum also decided that the proposed SPS will be discussed as the need arises.

Regarding the communication gateway at N.Lakhimpur substation, M/s Sterlite updated that a meeting with AEGCL was held on 16th Feb'23 in which report of NERLDC was also discussed. In the meeting, it was mutually agreed by the concerned parties to use a common gateway for communication of the two new bays at the substation. AEGCL updated that it will allow the use of common gateway, however, the issue should be discussed in the NeTEST meeting first.

The forum referred the matter for further discussion to in the upcoming NeTEST meeting.

The sub-committee noted as above

C.2. Non-visibility of downstream network (i.e. Nangalbibra (ISTS) — Nangalbibra (MePTCL) 132kV D/c line) of Bongaigaon (Powergrid) — Nangalbibra 400 kV D/c (Twin ACSR Moose) line (initially operated at 220 kV) of NBTL project.: M/s Sterlite (MUMML)

1. As you are aware that, Nangalbibra-Bongaigaon Transmission Ltd (NBTL) (a subsidiary of Sterlite Power) is executing the inter-state transmission system (ISTS) project under tariff-based competitive bidding (TBCB) route which passes through state of Meghalaya and Assam. The transmission scheme is scheduled for completion within 24 months from 16th December 2021, which is when Sterlite Power acquired Nangalbibra Bongaigaon Transmission Ltd. as SPV.

2. NBTL project will transmit over 1,000 MW of power from Assam to western parts of Meghalaya. Apart from bringing the additional power flow, the project will also help in decongesting the downstream networks in the region, thereby improving the quality and reliability of power flow in North-East India and comprises of below mentioned transmission elements:

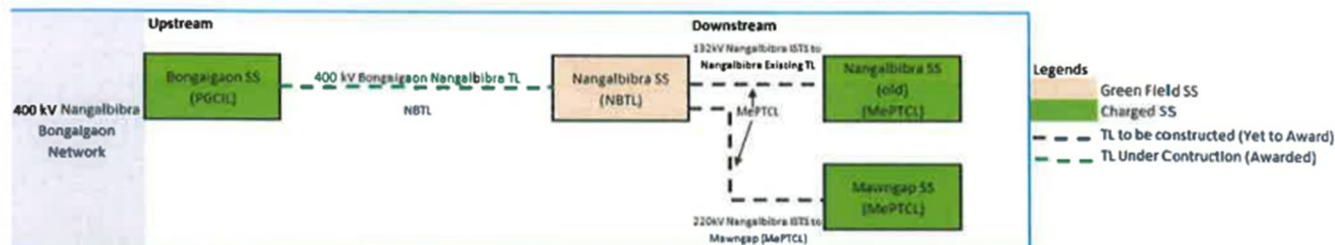
- 1) Bongaigaon (POWERGRID) - Nangalbibra 400kV D/c (Twin ACSR Moose) line (initially operated at 220kV) (Hereinafter referred as "B-N line")
- 2) Hatsinghmari (Assam) — Ampati (Meghalaya) 132kV (Single ACSR Panther) D/c line
- 3) Establishment of new 220/132kV, 2x160MVA substation at Nangalbibra
- 4) 2 No. of GIS line bays for termination of Bongaigaon (POWERGRID) — Nangalbibra 400kV D/c line
- 5) 2 No. of 132kV line bays on each end for termination of Hatsinghmari (Assam) - Ampati (Meghalaya) 132kV D/c line
- 6) Extension at Ampati (Meghalaya) S/s: 2 No. of 132kV line bays for termination of Hatsinghmari (Assam) — Ampati (Meghalaya) 132kV D/c line

3. With reference to the above-mentioned subject, I would like to inform you that Bongaigaon (POWERGRID) - Nangalbibra 400kV D/c (Twin ACSR Moose) line (initially operated at 220kV) (B-N line) is getting terminated at Nangalbibra substation. Further, below two lines of intra-State Transmission System would get connected at Nangalbibra substation but the same is not yet awarded:

- 1) Nangalbibra (ISTS) — Nangalbibra (MePTCL) 132kV D/c line: around 5km

2) Nangalbibra (ISTS) — Mawngap (MePTCL) 220 kV D/c line

4. Upstream and downstream Network of B-N line is depicted below:



5. NBTL is intended to commission project by December 2023, however there is no visibility of downstream system of "Bongaigaon (POWERGRID) - Nangalbibra 400kV D/c (Twin ACSR Moose) line (initially operated at 220kV)". If downstream system may not get commissioned by December 2023, element 1,3 & 4 of NBTL as mentioned in Para 2 above would get stranded after commissioning with a liability on defaulting party of its transmission charges.

6. In context of the same NBTL vide letter dated 10.12.2021 to Chief Engineer (Transmission) MePTCL, Shillong, Meghalaya has requested to update status of 132 KV transmission line which need to construct from Green field substation mentioned at sl no 3 of Para 2 above.

Deliberation of the sub-committee

MePTCL informed that for construction of 132kV Nangalbibra (ISTS) -Nangalbibra line, tendering will be done after State Assembly Election and completion target is December 2023. In case of 220kV Nangalbibra(ISTS)- Mawngap/N Shillong line, survey is going on and soon tendering process will be initiated.

The sub-committee noted as above

Action: MePTCL

C.3 Early Commissioning of Part D of MUML (MUML D) project considering usefulness of transmission system for decongesting the network prior to Peak generation period during monsoon: M/s Sterlite (MUML)

1. The Part-D of Mumbai Urja Marg Limited project planned to reduce overloading of Pare — Naharlagun / Nirjuli 132kV S/c line. Accordingly, below additional

transmission system was identified for strengthening the evacuation system associated with Pare HEP.

- 1) Pare (HEP) (From Near LILO Point) — North Lakhimpur (AEGCL) 132 kV D/C line (ACSR Zebra Conductor) along with 2 no. 132 KV line bays at North Lakhimpur. (61.06 ckm)
 - 2) LILO of one circuit of Pare HEP — North Lakhimpur (AEGCL) 132 kV D/C line (With ACSR Zebra Conductor) at Nirjuli (POWERGRID) substation. (33.26 ckm)
2. SCOD of the above transmission system is June 2023, that said, we are intended to complete by end of March 2023 with best effort basis. Getting shutdown of Ranganadi- Naharlagun/ Nirjuli line for completion of work under scope of MUMML in the Month of May and June is difficult due to peak generation period. To avoid the delay in readiness of the asset due to peak generation months in May and June 2023 we have requested NEEPCO for shutdown of Pare HEP and Ranganadi-Naharlagun/ Nirjuli line in the month of March-April 2023.
3. To analyse the benefit of early commissioning, a system Study has been done using PSS/E software and POC October 2022 file from POSOCO website. Base case without MUMML D and with MUMML D has been studied and it is observed that (i) without interconnecting MUMML D, few lines are loaded beyond its SIL that leads to undervoltage up to levels of 120 kV at adjacent 132 kV buses and (ii) with interconnecting MUMML D, line flows are improved and voltages at buses are within their permissible limits.
4. In reference to above, we are requesting your good office to please include the same in agenda points for discussion, so that the delay in commissioning of transmission system of MUMML D may be avoided.

Deliberation of the sub-committee

M/S Sterlite stated that SCOD of the project is June 2023, but it is well poised to be commissioned by March, 2023. System studies revealed that this line will help in reducing overloading on some lines and improving voltage profile on the lines. Hence a request was made to NERLDC to undertake system studies and verify the requirement of these new lines to be operational before high hydro season (June'23).

NERLDC stated that early commissioning of the system will certainly have positive effects on the grid as the low voltage issue at and around Dhemaji S/s of Assam is

expected to be resolved after commissioning of 132 kV Pare- N. Lakhimpur D/c with one ckt LILO at Nirjuli. Also, connectivity at Nirjuli will increase leading to increased reliability at Nirjuli.

The sub-committee noted as above

Action: Sterlite (MUML)

C.4 Voltage discrepancy at 400kV Mirza S/S: NERLDC

It has been observed that there is mismatch in Bus Voltage of 400kV Mirza S/S as recorded at site and as per the SCADA. The voltage at site is informed about 16kV lower than that of SCADA at all instances.

Assam is requested to verify the correctness of voltage data and if any discrepancy found may be rectified.

Deliberation of the sub-committee

AEGCL intimated the forum that CVT error has crossed the regulatory limits and order has been placed for replacement with new CVT which will be delivered shortly after which the same shall be replaced.

The sub-committee noted as above

Action: AEGCL

C.5 Availing of shutdown without prior intimation and necessary code and unsafe operations of elements: NERLDC

A. 132 kV Pare bus II was under Continuous Planned S/D from 08:52 Hrs of 21-01-2023. While returning the shutdown, Bus-II was charged at 13:51 Hrs of 26-01-2023 without taking necessary real-time code from NERLDC. Also, Continuous shutdown of 132kV Pare Bus-I was scheduled from 08:00 Hrs of 27-01-2023 to 16:00 Hrs of 01-02-2023. However, shutdown was taken at 08:03hrs of 27-01-2023 without prior information and necessary real-time code from NERLDC. These two incidents violate IEGC Clause 5.2.C quoted:

"No important elements of National/regional grid shall be deliberately opened or removed from service at any time except specifically instructed by RLDC or with specific or prior clearance of RLDC"

B. It has been observed that Pare is not adhering to safety practices during online transfer of elements from one bus to another.

- i. On 21.01.2023, while availing the shutdown of 132 kV Pare Bus-2, during online transfer Bus coupler was opened first followed by switching for each feeder through isolator which is not a safe operation.
- ii. On 26.01.2023, while returning the shutdown of 132 kV Pare Bus-2, bus coupler was not returned due to some pending maintenance activity but Bus-2 was charged by switching the isolators without prior opening of feeders.
- iii. On 27.01.2023, while availing shutdown of 132 kV Pare Bus-1, as bus coupler was not returned from shutdown, online transfer of feeders from Bus-1 to Bus-2 was done by switching isolators.

PHEP is requested to avoid such unsafe practice and adhere to IEGC.

Deliberation of the sub-committee

GM, NEEPCO assured the forum that they will refrain from such practices in future and adhere to IEGC regulations.

The sub-committee noted as above

**C.6 Opening of Station Transformer by AGBPP without prior approval:
NERLDC**

The shutdown of 220/6.6 kV Station transformer-1 at AGBPP was not approved through proper channel. However, the shutdown was availed by AGBPP at 11:02 Hrs of 30-01-2023 without taking necessary code and approval for retrofitting, testing and commissioning of CT which violates IEGC Clause 5.2.C

AGBPP is requested to avoid such practices and adhere to the clauses of IEGC.

Deliberation of the sub-committee

GM NEEPCO assured the forum that they will refrain from such practices in future and adhere to IEGC regulations.

The sub-committee noted as above

C.7 Commissioning of 132 kV Biswanath Chariali-Gohpur-Itanagar link: NERLDC

132 kV Biswanath Chariali-Itanagar Line I and Line II were charged on 01.04.21 and 02.04.21 respectively.

132 kV Biswanath Chariali –Itanagar II line is to be LILoed at 132 kV Gohpur Substation. Provisional Approval for charging 132 kV Itanagar and Biswanath Chariali Bays at Gohpur was issued to AEGCL by NERLDC on 03.11.22. Subsequently, FTC of 132 kV Itanagar and Biswanath Chariali bays at Gohpur Substation was done on 10.11.22 and 11.11.22 respectively.

LILo of 132 kV Biswanath-Chariali-Itanagar II line at Gohpur will enhance the reliability of Gohpur area of Assam System and also improve the voltage profile.

NTL may intimate the tentative timeline for LILo of 132 kV Biswanath-Chariali-Itanagar II line at Gohpur.

Deliberation of the sub-committee

M/s NTL intimated the forum that LILo will be ready for commissioning after signing of the supplementary connection agreement with concerned utilities. He further added that signing of connection agreement is pending with Arunachal Pradesh.

SE, Ar. Pradesh stated that he will take up with concerned department and revert back to the forum.

The sub-committee noted as above

Action: NTL & Ar. Pradesh

C.8 Commissioning of 220 kV Balipara-Sonabil-2: NERLDC

As we know, commissioning of 220kV Balipara-Sonabil-2 line would increase the import transfer capability of NER grid significantly, hence solving the TTC/ATC limiting constraints in the Sonabil area of Assam Power System.

First Time Charging of 220 kV Sonabil 2 Bay at Balipara (PGCIL) Substation was applied by AEGCL in FTC portal and all the documents were received, and approval for charging of the above bay was issued by NERLDC on 09.02.23. Also, request for FTC of 220 kV Balipara – Sonabil 2 line was received from NERTS on 18.01.23 and acknowledgement was sent by NERLDC vide email dated 23.01.23.

NERLDC requested NERTS to submit the required pending documents at the earliest to energize the line for ensuring reliability of Assam Power System.

Deliberation of the sub-committee

AEGCL intimated the forum that bay for ckt 2 at Balipara has been first time charged on 20th Feb 2023 and at Sonabil ss, bay has to be SAS enabled and Breaker and AR issues have to be rectified first.

Manager, NERTS apprised the forum that for Balipar-Sonabil ckt 2, application for CTU charging clearance will be applied soon. For the clearance, data is required from both the ends and Assam has to provide the same. Also, he updated that corresponding bay at Sonabil substation will be ready by next month after rectification of Breaker and Auto-Reclosure issues. And, for the line part, some cross jumpering will be required for which shutdown of ckt1 will be sought.

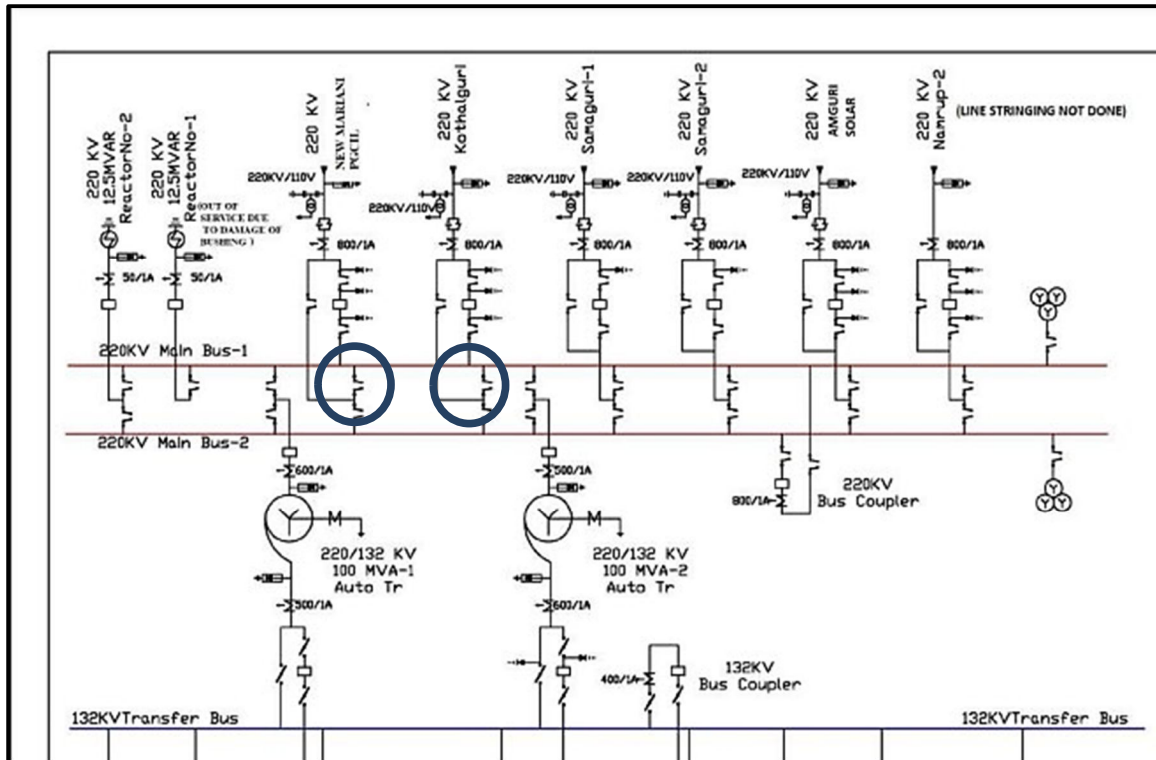
The sub-committee noted as above

Action: NERTS, AEGCL

C.9 Uniform segregation of feeders among both buses at 220 kV Mariani (AS)

Substation: NERLDC

As per NERLDC records, bus bar scheme available at 220 kV Mariani (AS) substation is Double main cum transfer. The SLD is as shown below:



On 3rd Feb'23, ESD of 220 kV Main Bus-I was availed by AEGCL for attending damaged conductor strand of jumper connected to bus I. However, during shutdown, shifting of feeders could not be performed to Main Bus-II from Main Bus-I due to isolator mechanical alignment issue (as reported by AEGCL) thereby effecting the safe and secure operation of NER grid specially Upper Assam Power System which is the matter of concern. Due to the above shutdown, generation backing down in Upper Assam pocket was also imposed to keep the gate flow around 70 MW.

Since, 220 kV Mariani (AS) Sub-station is very critical, thereby healthiness of both buses is very much required for uniform segregation of feeders in both buses.

AEGCL may resolve the matter on priority and ensure the healthiness of both the buses at 220 kV Mariani.

Also, as per SLD, PGCIL owned bays at Mariani switchyard are 220kV New Mariani and 220kV Kathalguri feeder can be connected only to Main Bus 1. During outage of Main Bus 1, both the above feeders shall be out of service.

PGCIL is requested to look into the matter and do the rectification so that 220kV New Mariani and 220kV Kathalguri feeders at Mariani can be connected to both the Buses.

Deliberation of the sub-committee

NERLDC intimated the forum that bay configuration for 220kV Mariani and 220kV Kathalguri feeders at Mariani (AS) substation is Single Main and Transfer while other 220kV feeders at the station follow the Double Main cum Transfer scheme. Hence PGCIL was requested to change the switching scheme from SMT to DMT at the earliest.

After detailed discussion, PGCIL assured the forum that the scheme will be changed to DMT by 31st March'23.

The sub-committee noted as above

Action: NERTS

C.10 Regarding commissioning of 220 kV Samaguri-Mariani-1: NERLDC

As we know, Upper Assam Flow Gate consists of the following:

- 220 kV Mariani (AS) –Samaguri -II
- 220 kV AGBPP – New Mariani
- 220 kV Mariani (AS)– New Mariani
- 132 kV Mariani Golaghat

Considering N-1 contingency of either 220 kV AGBPP– New Mariani or 220 kV Mariani (AS) –Samaguri -II, Upper Assam Flow Gate has to be limited within 320 MW leading to generation backdown during off-peak hours.

Also, on 3rd Feb'2023, during emergency shutdown of 220kV Bus at Mariani (AS), Upper Assam flow gate had to be maintained at 70 MW with a generation backing down of 166 MW considering N-1 contingency of 220 kV AGBPP - New Mariani line and 132 kV Mariani Golaghat as limiting element.

Hence, commissioning of 220 kV Samaguri-Mariani (AS)-I is very crucial for maintaining the reliability and safe evacuation of generation in Upper Assam Power System. As per 198th OCCM, Forest Clearance is still awaited for the Samaguri-Khumtai section.

AEGCL is requested to expedite the commissioning of the line and intimate the updated status.

Deliberation of the sub-committee

AEGCL updated that the forest clearance for Samaguri-Khumtai section is still awaited. AEGCL further updated that for forest clearance, joint verification by forest department and AEGCL has been done but cost estimate has not been received yet from the forest department.

NERLDC mentioned that generation reduction is required to maintain the Upper Assam Gate Flow under the outage of the following lines:

220 kV Kathalguri – Mariani (PG) line, 220 kV Mariani (AS) – Samaguri II line, 220 kV Mariani(PG) – Mariani (AS) line, 132 kV Mariani – Golaghat – Sarupathar-Bokajan - Dimapur line, 220 kV Kathalguri – Mariani (AS) line, 220 kV Mariani (AS) – Amguri line, 220 kV Amguri – NTPS line.

It is therefore essential that other circuit of 220 kV Mariani (AS) – Samaguri I line is brought into service to mitigate the issue of generation reduction of AGBPP and all the generations in Upper Assam Power System viz. LTSP, LRPP, NTPS, NRPP, Amguri etc.

The forum requested AEGCL to make all efforts to bring the line at the earliest, so as to resolve the issue of restriction in gate flow and generation backing down in the Upper Assam region

The sub-committee noted as above

Action: AEGCL

C.11 Installation of TLSA on 132kV MLHEP-I to Khliehriat DC line: MePTCL

Meghalaya Power Transmission Corporation Limited (MePTCL) is requesting the forum to allow the entity to go ahead in submitting the DPR for the installation of the Transmission Line Surge Arrester (TLSA) on the 132 KV D/C line from MLHEP-I to 132 KV Khliehriat sub-station, Meghalaya Power Transmission Corporation Ltd (MePTCL) for PSDF funding which was approved by the forum on the 189th OCC Meeting held on 19th April, 2022. It may be mentioned here that the forum has approved the proposal as a combined DPR with the SPS Scheme for MLHEP-I, but due to the delay in receiving necessary inputs from MePGCL, therefore MePTCL is requesting the forum to allow the submission of the TLSA DPR without the SPS Scheme.

The proposal for TLSA installation shall improve the availability of the above D/C line and prevent repeated SPS operation which is undesirable.

Deliberation of the sub-committee

MePTCL intimated that regarding SPS at Leshka, no communication has been received by M/s Hitachi for cost estimate despite submission of logics and details for the same. In this regard a multilateral meeting, comprising representatives from NERPC, NERLDC, MePTCL and Andritz Hydro Pvt Ltd has also been conducted.

After detailed deliberation the forum agreed the proposal of MePTCL for submission of DPR for TLSA separately without clubbing it with the SPS scheme.

The sub-committee noted as above

Action: MEPTCL

C.12 Consultancy Services by CPRI on Power System Studies and Third-Party Protection Audit: NERPC

Central Power Research Institute (CPRI), an autonomous body under the Ministry of Power, has offered to provide consultancy services on Power System Studies and also undertake third party protection audit for the Power Utilities in NER. Letter from CPRI to NERPC on this matter is attached at (Annexure C.10).

Deliberation of the sub-committee

Member Secretary, NERPC intimated the forum that CPRI has offered to provide the consultancy services on Power system studies and third-party protection audit to the power utilities in NER region. If any utility requires such services, CPRI can take up such works on request from the utility.

The sub-committee noted as above

C.13 Delete or hide the Manipur Share in LTA: TSECL

Bilateral exchange with the Manipur agreement was closed on 31.05.2022. After closing of agreement, TSECL was given a schedule to Manipur by mistake on 09.08.2022. A few days ago, i.e. on 05.02.2023, it was noted again.

Regarding this issue, it is requested to delete or hide the Manipur Share in LTA of wbes website and also Manipur is requested to give your valuable inputs from your end.

Deliberation of the sub-committee

Manger, NERLDC appraised the forum that scheduling of Baramura is done by Tripura SLDC and a provision has been provided in NERLDC WBES which is used by SLDC Tripura for furnishing day ahead and real time schedule of other beneficiaries of Baramura (other than Tripura) which then reflects in the net schedule of these beneficiaries of Baramura.

After Manipur had requested for surrender of Baramura share, NERLDC had requested for consent of Tripura and Manipur for deletion of the aforementioned provision in WBES on 10th August 2022 over email. The consent was received only from Manipur, but no consent was received from Tripura. Due to lack of consent from both sides, the provision had remained functional in NERLDC WBES.

Therefore, NERLDC requested again, in the forum, for the consent of Tripura and Manipur for deletion of provision for inserting Baramura share of Manipur in NERLDC WBES by SLDC Tripura (LTA ID: "BARA_MANIPUR").

During the meeting, both the States provided their consent. Therefore, it was decided that NERLDC will delete the said provision at the earliest.

The sub-committee noted as above

Action: NERLDC

**C.14 Installation of two numbers Generator Transformer for Myntdu Leshka
HEP: MePGCL**

Myntdu-Leshka Power Station is a generating station has three units 42 MW each, with 9 nos. of 17.5 MVA, 11/132 KV single phase Generator Transformers (3 nos for each unit). A 10th spare Generator Transformer has been kept as a provision, in the event of failure of any of the single-phase Generator Transformers.

Since commissioning of the Myntdu-Leshka Power station in 2011, 2 (two) nos of Generator Transformers had failed due to various factors. These GTs have been repaired twice. One of the repaired GTs is put in service and the other has been kept as spare. As the reliability and dependability of the repaired GTs are very unpredictable, it is proposed that 2 (two) new single-phase GTs 17.5 MVA, 11/132 KV with accessories etc. are procured to replace the repaired GT in service and the latter to be kept as spare.

Since the power supply depends on reliability and availability of the GTs, any breakdown is fatal. Considering the importance to optimize maximum generation during high hydro monsoon season at the MLHEP area, to cater and maintaining/regulating un-interrupted power generation for grid stability throughout the year, it is very vital for procurement of 2 (two) new single-phase GT, 17.5 MVA, 11/132 kV with accessories etc. for the MLHEP Power Station, to meet the ever-growing System Demand.

Tentative Cost Estimate: 6.5 Crores.

Deliberation of the sub-committee

Member Secretary informed that PSDF funding is accorded as per guidelines issued by MoP. He also stated that in order to minimize return/rejection and to facilitate acceptance of proposal from PSDF, thorough study of the objective and guidelines of PSDF is necessary.

After brief discussion, it was decided that RPC Secretariat will seek clarification from CEA for inclusion of such projects in the PSDF. All related items referred from 23th TCC/RPC meeting with respect to PSDF funding would also be taken up together.

The sub-committee noted as above

Action: NERPC

C.15 Installation of Raccoon covered Conductor for 33kV Power supply from Myntdu Leshka stage-1 power station to MLHEP Dam: MePGCL

The source of power supply to the MLHEP Dam Control Room is through a 10 Km long, 16 years old overhead 33KV line from the Myntdu-Leshka Power Station. Since, this line is very unreliable and dependable, especially during the peak monsoon season, which is prone and frequently tripped failed, due to very bad inclement weather conditions accompanied with heavy thunderstorm, lightning and strong winds in the region.

In light of the above and to mitigate outage and maintain uninterrupted 33kV Power Supply to MLHEP Dam, which is requires for continuous operation of the sluice gates for safety purposes during the peak monsoon season, and as a vital requirement for the Run of the River Dam, it is proposed for installation of 33KV power supply from

Muntdu-Leshka Power Station to MLHEP Dam.

Tentative Cost Estimate: 4 Crores

Deliberation of the sub-committee

Refer to C.14

C.16 Installation of open loop cooling water system and improvement of dewatering for Myntdu Leshka stage-I power station: MePGCL

The Myntdu-Leshka Stage-I Power Station being Run of the River scheme, has been designed with a plant load factor of 44% and is expected to generate around 484 MU by design per annum. The existing Cooling System for the three units of 42 MWs each of the Myntdu-Leshka Power Station is of a closed loop system which include the primary and secondary cooling water pumps. The breakdown of these pumps during their continuous operation usually contributes to the outages of the units. With the proposal Cooling System in place, it will mitigate the outages due to the failure of cooling water pumps grid disturbances and clogging of heat exchangers reduction in maintenance cost of the primary cooling water system consisting of pipes, flanges valves pumps filters and heat exchangers due to exposure to acidic nature of the water. This will be vital for the maintaining the availability of Power Generation in the region and in particular the state of Meghalaya.

The Power House is also equipped with 4 Nos of Drainage Pump and 6 Nos of Dewatering Pumps. These Pumps are of VT shaft type. These pumps are unreliable and not dependable as they are prone to fail due to deformed shaft or broken coupling. To prevent and avoid flooding of power House, it is proposed that the existing Dewatering and Drainage Pumps be replaced with Submersible Type of Pumps in line with the guidelines of CEA.

Further the existing system for Dewatering of the tail race water in the event of any emergency planned or forced maintenance of the underwater components of the T&G set is only through the Primary Cooling, Drainage and Dewatering System of U3 wherein its delivery outlet Pumps the water to the Lynriang River. This system takes around approximately 60 hours to deliver the tail race water (approx 50,00,000 ltrs) to the river. By modification of the system, and extending the primary, Drainage and

Dewatering Water conductor piping system of unit 1 & 3 to the Lynriang River, this will greatly reduce the dewatering of Tail Race Water to around 24 Hrs and outage Hours of the whole Power Station by around 36 Hours.

In line with the above, it is proposed that an open looped cooling system and Improvement of the Dewatering System for the benefit of the Myntdu Leshka Stage – I Power Station and the stability of the grid as a whole.

Tentative Cost Estimate: 7.6 Crores

Deliberation of the sub-committee

Refer to C.14

C.17 Installation of Raccoon covered conductor for outside source of 33kV power supply of Umiam stage IV Power Station, Nongkhylllem coming from Umiam stage III Power Station, Kyrdemkulai: MEPGCL.

PROPOSAL: Installation of 33KV Racoon covered conductor with accessories etc for Outside source 33KV power supply of Umiam Stage IV Power Station, coming from Umiam Stage III power station, under MePGCL. Explanatory Note: Stage IV power station is a generating station with two installed Units, where each unit is of capacity of 30 MW. The overall generating capacity of this station is 60MW. The above 33KV outside source power supply line from Stage III Power station to Stage IV power station which runs through the reserved forest is prone to frequent power supply outages due to frequent falling of bamboos and small trees on the naked conductors of the line. Although trimming of trees is done regularly, the growth of shrubs, trees and bamboos are very fast which caused frequent outages of the line. Therefore, in this connection it is felt necessary to replace the existing naked racoon conductor with 33KV covered racoon conductor in order to avoid frequent outages of the line. Due to lack of fund, MePGCL is requesting the forum to consider recommending the funding of this project from PSDF.

Deliberation of the sub-committee

Refer to C.14

C.18 Proposal for intallation of equipments for Mobile Communication facilities for all Power Stations of Meghalaya: MePGCL

PROPOSAL: Proposal to fund setting up of additional mobile communication towers and equipments to ensure reliable and continuous mobile network connectivity for all

Power stations in Meghalaya on account of very poor network connectivity as it is not commercially viable for the Service providers since the areas around the Power stations have scarce populace. Explanatory Note: In order to ensure reliable, stable and optimum power generation from each Power Station it has become necessary to also have a very reliable mobile communication network system in addition to PLCC communication. It may be noted that on many occasions PLCC communication system is prone to frequent interruptions and failures during bad weather and other disturbing Grid conditions for which lack of communication between Power Stations and SLDC delays the restoration of the Power system during Grid failure and Grid interruption. Most of the time during such a situation, the shift duty personnel has to come out of the Power Station to a particular location which is quite far from the Power station, where there is network availability and only then the contact with SLDC is established. This process of maintaining communication with SLDC has become a regular affair particularly during Peak generating season i.e monsoon season. This is prevalent in almost all the Power stations in Meghalaya. MePGCL had approached the service providers for necessary action to improve the network connectivity in the areas around the Power stations but the same is not materialised till date since it is known that setting up of additional towers and equipments in those areas is not commercially viable for the Service Providers as these areas have scarce population. MePGCL is requesting the forum to consider for recommendation of funding of this project from PSDF or any applicable Central scheme.

Deliberation of the sub-committee

Refer to C.14

Additional Agenda from PGCIL

C.19 Replacement of 50MVA_r Bus Reactor-1 at Bongaigaon Sub-station under O&M Add Cap 19-24.

50MVA_r 400KV BHEL Make, 3 Ph Bus Reactor, installation Date: 24.07.1999. Under 22nd NERPC meeting, approval for replacement of aforesaid reactor has been accorded under O&M add cap 19-24 tariff block. It is to mention here that the said reactor had been procured and the same is under transit to Bongaigaon S/s and is expected to reach by end of Feb'23. The said reactor is to be installed in place of 50MVA_r BR#1. Hence, outage of the same shall be required for dismantling from 01/03/23 onwards.

Expected date of charging of New 50MVAR Reactor shall be 30/05/23. Forum is requested to accord the approval of the outage of 400kV 50MVAR Bus Reactor#1 at Bongaigaon under O&M Add cap 19-24 Tariff block.

Deliberation of the sub-committee

After detailed deliberation, the forum agreed for the outage of 400kV 50MVar Bus Reactor 1 at Bongaigaon under O&M Add cap work.

NERTS was advised to strictly adhere to the timeline and restore the Reactor by 30/05/2023.

The sub-committee noted as above

Action: PGCIL/NERTS

C.20 Outage required for HTLS reconductoring work of 220kv Alipurduar-Salakati line

We require the Shutdown of 132kV Joyma GSS to Gossaigaon TSS feeder of AEGCL for HTLS reconductoring work of 220kV Alipurduar-Salakati line. We are requesting APDCL, the authority of billings for Shutdown of this line. The proposed shut down schedule is as follows: Date: 25.02.23 to 27.02.23 for CKT#2 & 07.03.23 to 09.03.23 for CKT#1 Time 08.00 am to 04.00 pm. Requesting approval on the same

Deliberation of the sub-committee

CGM, NERTS intimated the forum that the 132kV Joyma to Gossaigaon feeder caters power to the railways and outage of this feeder will lead to overdrawl by the railways through other two feeders feeding power to railways. According to agreement between the APDCL and the railways, the overloading will invoke penalty on railways. But since railways have denied to pay the penalty as the outage of Joyma Gossaigaon is a force majeure situation beyond its control. APDCL has expressed desire to shift the penalty to the transmission utility which is PGCIL/NERTS.

CGM, NERTS requested that either the amount of penalty be waived off by APDCL or if charged on PGCIL, the amount be allowed to be recovered under the PoC charges.

Views of APDCL could not be taken as they were not present in the meeting.

Member Secretary NERPC requested PGCIL to finalize the matter bilaterally between PGCIL and APDCL and decision on inclusion of extra cost under PoC will be taken later.

The sub-committee noted as above

Action: APDCL, NERTS

C.21 132KV Double Circuit Roing-Chapakhowa 132KV Double Circuit Transmission Line- Support required from Govt. of Ar. Pradesh.

The 132KV D/C Roing-Chapakhowa Transmission Line is presently under execution by POWERGRID. As on date, 95% Foundation & 70% Tower Erection has been completed in the line & stringing works are too progressing. The issues related to severe ROW in the line has been discussed in the preceding OCC & NERPC meetings.

Support of Government of Arunachal Pradesh is received in resolution of Right of Way issues. Following is the current status of resolution of ROW issues:

Description	Pending Locations as on 01.01.2023	Resolved during January'23 & Feb'23 & Foundation completed.	Balance locations as on date.
Foundation (No. of Location)	21 Locations in Non-Forest areas 12 Locations in Reserve Forest	18 Locations in Non-Forest areas 10 Locations in Reserve Forest	3 Locations in Non-Forest areas 2 Locations in Reserve Forest

Further, for facilitating erection & stringing works in Reserve Forest section (5.5km within Deopani Reserve Forest), clearance of thick infringement & Trees by Forest Department is critically urgent. The matter has been under regular persuasion with Concerned Department by POWERGRID.

Support is requested by POWERGRID i.r.o. the above issues. It is anticipated that the transmission line can be completed within one month of resolution of the balance issues as indicated above.

Deliberation of the sub-committee

CGM, NERTS thanked DoP Ar. Pradesh for the support extended so far and hoped that same will be continued in future. He further requested Member Secretary NERPC to write a letter to the forest department of Arunachal Pradesh for clearance of thick vegetation/trees in the Deopani Reserve Forest so that erection and stringing work in the area can be expedited.

Member Secretary agreed for the same.

The sub-committee noted as above

Action: NERPC

C.22 Shutdown of 11KV & 33KV distribution Lines at Biswanath & North Lakhimpur District during Tower Erection and Stringing works of 400KV D/C (Twin Lapwing) Lower Subansiri-Biswanath Chariali Transmission Line (Line-I & Line-II) for evacuation of power from 2000MW Lower Subansiri Hydro Electric Project.

2 No. 400KV Double Circuit Transmission Lines from Lower Subansiri Hydro Electric Project of NHPC to POWERGRID's ± 800 KV HVDC Converter Station at Biswanath Chariali are under execution by POWERGRID as evacuation corridors for Lower Subansiri Hydro Electric Plant of NHPC. As on date, works related to both the transmission lines are in rapid progress.

The above-mentioned Transmission Lines are drawn through Biswanath, North Lakhimpur & Dhemaji districts of Assam. For facilitating construction works, shutdown of identified distribution 11kV & 33KV Lines are required from time to time in the above referred districts of Assam. In this regard, regular coordination is maintained with concerned Electrical Sub Divisions of APDCL for arrangement of requisite shutdown from time to time. However, on many occasion shutdown could not be obtained/ have been deferred in view of various constraints as intimated by concerned Sub Division, particularly during the first fortnight of a month. Since for timely completion of the transmission lines within given schedule, continuity of ongoing erection & stringing works is essential, therefore support from APDCL in the above matter is highly crucial.

It is also to mention that HT cables (11KV grade) are available with POWERGRID & necessary arrangement for using them temporarily for minimizing disruption of distribution lines during the works at certain stretches too can be made. Consent of APDCL in this regard is requested.

Deliberation of the sub-committee

CGM, NERTS reiterated the scenario to the forum and requested APDCL to provide consent for the proposed arrangement in order to minimize shutdown and timely completion of the work at hand. Views of APDCL could not be taken as APDCL were not present in the meeting.

After detailed deliberation, the forum gave in-principle approval of the proposed arrangement and requested APDCL to consider this arrangement positively and decide bilaterally with PGCIL.

The sub-committee noted as above

Action: PGCIL/APDCL

D. ITEMS FOR STATUS**D.1. Implementation of projects funded from PSDF:**The status as informed in 198thOCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST*	Line Differential Protection
Ar. Pradesh	Package-I (Diagnostic tools) Complete in all respects. P-II (for PLCC & communication) Supply completed. Erection WIP. 50% requisition submitted. P-III (Substation equipment) Agreement signed and 10% requisition submitted. Total 90% requisition by Apr'22. Completion by Dec'22. (Approval from TSA and Account opening in 3 months)	Project completed in all respects.	-	30% requisition submitted. Amount not received in the TSA account.	-
Nagaland	Completed in all respects.	Work completed in all respects. UC submitted	-	30% requisition submitted	Lines identified. Under DPR preparation stage.
Mizoram	Final 10% disbursed. UC to be submitted.	Work completed in all respects. Remaining part of final 10% to be disbursed ASAP.	To reply to TEGS queries.	30% requisition submitted.	Revised DPR including both 132kV Aizawl-Luangmual and 132kV Khamzawl-Khawiva to be submitted.
Manipur	Package-II: completed Package-I: all stations complete except Ningthoukhong.	Work completed in all respects. UC submitted in Oct'21.	WIP.	10% disbursed for IT portion, no disburseme	Revised DPR for LDP of 132kV Imphal-Yurembam-III to be submitted by

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	By May'22.			nt for Meter, AMR portion. 20% disbursement for IT portion after completion of 3 rd milestone. 30% to be disbursed for Meter, AMR portion	June'22.
	33kV System Integration with SLDC	In tendering stage			
	Reliable Communications for grid connectivity	In tendering stage			
Tripura	Completed. Final UC submitted on 04 th May'22.	Final 10% requisition submitted.	Not relevant in present scenario with commissioning of ISTS lines. Issue dropped	10% successfully disbursed. 20% fund reversed back from vendor account. Will be resolved soon.	For 132kv 79Tilla-Budhjungna gar line and for Rokhia link LDP at own cost. Tendering undergoing. DPR preparation for rest of the lines
Assam	Work completed except CRP, SAS work in 8stations which have been retendered and awarded to M/s SIEMENS. Completion by Dec'22	Project completed in all respects.	-	30% funds yet to be fully disbursed. 60% requisition sent.	Lines identified. Under DPR preparation stage.

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Meghalaya	MePTCL – completed in all respects. MePGCL – Completed in all respects.	Project completed in all respects.	-	90% works completed. Communication pending.	All works except OPGW done
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D.2. Status update of important grid elements under prolonged outage impacting system operation:

Sl. No	Element	Owner	Status as informed in the 198 th OCCM	Latest Status
1	132kV Mariani – Mokochung (out since April'2008)	AEGCL	Non clearance due to persisting funding issue	Non clearance due to persisting funding issue
2	132kV Roing-Pasighat (charged through ERS tower)	NERTS	June-2023	1 st tower by April'23 while 2 nd tower requires tendering, tentative completion by June'23
3	220kV Misa-Kopili D/C, 220/132kV ICTs at Kopili, 132kV Khandong –Kopili D/C(out since Oct'19)	NEEPCO/ NERTS	ICT Kopili- May 2023 ICT Khandong- May 2023	Refer to item B.8
4	132kV Srikona – Panchgram	AEGCL	Tender floated on 21.11.2022, Under evaluation	
5	400kV Imphal – Thoubal-I and 315MVA 400/132kV ICT at Thoubal	MSPCL	RoW, litigation pending in court.	RoW, litigation pending in court.
6	63MVAR Bus Reactor at Byrnihat to be replaced with 80MVAR Reactor	MePTCL	Logistics issue.Under process.	Under process
7	400kV Silchar-Misa ckt DC (permanent restoration)	NER-II TL	Pile works and chimney casting completed. Tower erection under process. Estimated by March'23.	Work near to completion. Tentative completion by March'23
8	LR- BNC at Balipara ss (50MVAR, 400kV)	PGCIL	WIP, expected revival by March'23	Expected revival by April'23

D.3. Status of commissioning for upcoming projects:

Sl. No	Name of the element	Utility	Status as informed in 198 th OCC meeting	Latest Status
1	132kV Monarchak-Surjamaninagar	TSECL	July'23	July'23
2	PLCC for 132kV Loktak-Ningthoukong and 132kV Loktak-Rengpang(existing lines)	MSPCL	Under R&M by NHPC. July'23	Under R&M by NHPC. July'23
3	Construction of 2 nd bay at Balipara for 220kV Balipara-Sonabil-2	AEGCL	Work to continue after shut down is availed.	2 nd Bay charged on 20th Feb'23
4	Upgradation of 132kV Lumshnong - Panchgram line	MePTCL	Upgradation work to be taken after 15 th March	Upgradation work to be taken after 15 th March
5	PLCC for 132kV Karong-Kohima. PLCC at Kohima	DoP Nagaland	Awaiting sanction from PSDF	Awaiting sanction from PSDF
6	132kV Loktak-Ningthoukhong-II	MSPCL		
7	132kV Roing-Chapakhowa	NERTS	Estimated by Feb'23 if RoW issues are resolved by Jan'23	Refer to item C.21
8	Re-conductoring 220kV BTPS-Salakati D/C	NERTS	Feb'23	March'23
9	420kV 80MVAR Bus Reactor	NEEPCO	Transportation and logistics issue, by Dec'23	Dec'23
10	220kV Killing - Mawngap	NERPSIP	March'23 subject to resolution of long pending RoWs in Ri-Bhoi and East Khasi Hills district.	March'23 subject to resolution of long pending RoWs in Ri-Bhoi and East Khasi Hills district.
11	220kV Samaguri - Mariani-I	AEGCL	FC awaited for the Samaguri-Khumtai section.Khumtai-Mariani is charged. No forest clearance.	Refer to item C.10
12	Reconductoring of 132kV UmiamStg-III to UmiamStg-I by HTLS	MePTCL	Line work is done, CT to be replaced at both ends, process underway	CT repelement by March'23
13	PLCC/DTPC for 220kV Balipara- Sonabil	AEGCL	After the completion of 2 nd bay at Balipara for 220KV Balipara-Sonabil-2	WIP

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14	220kV AGBPP -Namsai D/C	TBCB	LoA awarded on Oct'22. Estimated to be completed in 36 months.	Tentative completion by Oct'25
15	Upgradation of 132kV Surjamaninagar-Surjamaninagar(ISTS), 132kV Bodhjungnagar-SMNagar, 132kV P.K.Bari-Ambassa, 132kV P.K. Bari-P.K.Bari(ISTS)	TSECL	New tender has been floated for joint venture of PGCIL and STU.	New tender has been floated for joint venture of PGCIL and STU.
16	LILO of 132kV Leshka-Khliehriat-I at Mynkre and Mynkre SS and 33kV downstream at Mynkre.	NERPSIP	LILO ready. Substation WIP-March'23.	LILO ready. Substation WIP-March'23.
17	220kV Tinsukia-Behiating D/C	NERPSIP	WIP-March'23	WIP-March'23
18	LILO of 132kV Kamalpur-Kamakhya& 132kV Kamalpur-Sishugram at Amingaon	NERPSIP	ERS installation work under scope of AEGCL. Work under progress.	Completed. Ready for charging.
19	220kV Rangia - Amingaon D/C and 220/132kV 2x160MVA Amingaon S/S	NERPSIP	March'23	March'23
20	132kV Rengpang-Tamenglong and 132/33kV 4x6.67MVA at Tamenglong at Manipur	NERPSIP	March'23	March'23
21	132/33kV 2x20MVA Gamphazol at Manipur	NERPSIP	Test charged in Dec'22	Test charged in Dec'22
22	132/33kV West Phaileng S/S at Mizoram	NERPSIP	Ready for charging. Line WIP.	Ready for charging. Line WIP.
23	132/33kV 2x12.5MVA Marpara S/S at Mizoram	NERPSIP	March'23	March'23
24	132/33kV 2x12.5MVA Lungsen S/S at Mizoram	NERPSIP	March'23	March'23
25	132kV Lungsen-Chawngte S/C at Mizoram	NERPSIP	Feb'23	Ready for charging.

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26	132kV Chawngte - S.Bungtlang S/S at Mizoram	NERPSIP	March'23	March'23
27	132kV W.Phaileng- Marpara S/C at Mizoram	NERPSIP	March'23 subject to RoW clearance in Pukzing village in Manit district.	March'23 subject to RoW clearance in Pukzing village in Manit district.
28	220kV Zhadima - Mokokchung at Nagaland	NERPSIP	Feb'23	March'23
29	LILO of 132kV Wokha - Kohima at 132/33kV New Kohima at Nagaland	NERPSIP	Feb'23	Ready for charging.
30	132kV Wokha- Zunheboto - Mokokchung at Nagaland	NERPSIP	March'23	March'23
31	132kV Tuengsang - Longleng at Nagaland	NERPSIP	Tuengsang substation upgradation under tendering.	Tuengsang substation upgradation under tendering.
32	132/33kV Amarpur S/S at Tripura	NERPSIP	March'23	March'23
33	132/33kV Manu(new) S/S at Tripura	NERPSIP	March'23	March'23
34	132kV Dharmanagar- Kailashor	NERPSIP	Feb'23	March'23
35	132kV Ziro-Yazali and 132/33kV Yazali S/S	POWERGRID- Comprehensive	March'23	March'23
36	132kV Yazali - Palin and 132/33kV Palin S/S	POWERGRID - Comprehensive	No forest clearance achieved. Work under process. Estimated to be completed in 12 months.	No forest clearance achieved. Work under process. Estimated to be completed in 12 months.
37	132kV Palin- Koloriang and 132/33kV Koloriang S/S	POWERGRID - Comprehensive	No forest clearance achieved. Work under process. Estimated to be completed in 12 months.	No forest clearance achieved. Work under process. Estimated to be completed in 12 months.
38	132kV Khonsa -Deomali and 132/33kV Khonsa S/S	POWERGRID - Comprehensive	Next year i.e 2024	Khonsa substation completed.

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39	132kV Miao – Namsai and 132/33kV Miao S/S	POWERGRID - Comprehensive	Next year i.e 2024	Next year i.e 2024
40	132kV Chimpu – Holongi and 132/33kV Holongi S/S	POWERGRID - Comprehensive	OPGW has been installed in the line, but stringing work at 6 locations are held up due to RoW issue	OPGW has been installed in the line, but stringing work at 6 locations are held up due to RoW issue Holongi substation completed.
41	Lower Subansiri HEP	NHPC	Unit 1 by Jan'23 and Unit 2 by Feb'23	Unit 1 and 2 by June'23
42	400kV Lower Subansiri-BNC line1	PGCIL	Feb'23	Anti theft charging on 24/02/2023. Completion by March 2023.
43	400kV Lower Subansiri-BNC line2	PGCIL	March'23	June'23
44	Conversion of MT to DM at (i)132kV Khliehriat, (ii)132kV Badarpur, (iii)132kV Nirjuli, (iv) 132kV Imphal	NERTS	132 kV Khliehriat and 132 kv Badarpur- under approval stage. 132 kv Nirjuli- work ongoing. 132 kv Imphal- Feb'23	Nirjuli- March'23 Imphal- April'23 Badarpur & Khliehriat - In tendering stage

D.4. Status of ISTS expansion scheme in NER:

A. Status of downstream 220kV or 132kV network by STUs from the various commissioned and under-construction ISTS substations in NER

	ISTS S/s	State	Voltage ratio, Trans. Cap	Down- stream Voltage level (kV)	Unutilized bays	Status of ISTS bay	STU Lines for unutilized bays	Status of Lines (as updated in 198 th OCCM)	
								Date of Award	Completion schedule
1	New Mariani (POWERGRID)	Assam	400/220kV, 2x500MVA	220	2	Commissioned	New Mariani (POWERGRID) – Diphu (Assam) 220kV D/c line	Preliminary survey completed	By Jan'25

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2	New Kohima (TBCB)	Nagaland	400/220kV, 2x500MVA	220	2	Commissioned	New Kohima (TBCB) – New Kohima (Nagaland) 220kV D/c line	LoA Feb'2021	Line stringing completed, PLCC works to be completed by Feb'23. For OPGW, PGCIL is requested to Install it.
3	Nangalbibra (TBCB)	Meghalaya	220/132kV, 2x160MVA	132	2	Under construction (Dec'23)	Nangalbibra (ISTS) – Nangalbibra (MePTCL) 132kV D/c (HTLS,800A) Line:about 5km	DPR prepared and survey completed. Approval awaited.	Dec'23

B. Status of 400kV substations and other important elements being implemented by STUs in NER under intra-state schemes to be connected through ISTS

Sl. No.	Substation/Location	Transformer Capacity/ Element	Date of Award	Completion Schedule
A	Assam (to be implemented by AEGCL)			
I	Rangia	400/220kV, 2x500MVA	1. EPC Contract Award is Tentatively scheduled in the early half of Dec'2022. 2. Master Plan submitted for approval. 3. Tender under preparation 4. AIB points to be addressed	Dec'2025
a)	LILO of both circuits of Bongaigaon – Balipara 400kV D/c line at Rangia	400 kV, D/C	1. EPC Contract Award is expected by Dec'2022. 2. Tender preparation is completed and is to be reviewed by AIIB	Mar'26 (36 months form date of Award)
II	Khumtai	400/220/132kV, 2x500MVA + 2x160MVA	Survey work to be completed by June'2022. EPC tender to be floated on finalization of fund allotment. 220kV work will be constructed under ongoing AIIB scheme for which contract has already been award to M/S RS infra PVT tech Ltd.	May'2026

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a)	Khumtai (AEGCL) – BiswanathChariyali (PG) 400kV D/c line	400kV D/c	Survey work completion by July'22, tender floating after finalization of fund allocation.	220kV LILO part 60% complete. 400kV line by May'2026
III	Upgradation of Gohpur S/s from AIS to GIS	-	1. Notice of Award has been issued on 8 th June 2022 to M/S Sumaja Electro infra Pvt Ltd.	June'2025
a)	2 no. 132kV GIS line bays at Gohpur for termination of LILO of one circuit of BiswanathChariyali – Itanagar 132kV D/c line (line works under ISTS through TBCB route)	132kV	1. LoA by Jun'22	June'2025
IV	Upgradation of Sonapur S/s from AIS to GIS	-	1. Contract to be awarded by Jun'23. LoA by Jun'23	June'2026
a)	LILO of 400kV Silchar-Byrnihat at Sonapur	-	1. LoA by Jun'23	June'2026

Sl. No.	Substation/Location	Transformation Capacity/ Element	Date of Award	Completion Schedule
B	Tripura (to be implemented by TSECL)			
I	Surajmaninagar (TSECL)	400/132kV, 2x315MVA	JV formation, between PGCIL and STU by March'23	12 months from Date of Award
a)	LILO of both circuits of Surajmaninagar (ISTS) – Palatana 400kV D/c line at Surajmaninagar (TSECL) S/s	400kV D/c	All works except 400kV termination at Surajmaninagar (TSECL) by POWERGRID to be done. Balance works under separate contract.	84% Line works complete by PGCIL, total completion subjected to Sub-station readiness at Surajmaninagar
C	NEEPCO (to be implemented by NEEPCO)			
I	Extension works at Ranganadi HEP end			

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a)	420kV 80MVAR Bus Reactor at Ranganadi Generation Switchyard		LOA on 11.01.2022	Dec'23 (Logistics and Transportation issue)
II	Extension works at Pare HEP end			
a)	Bypassing of LILO of Ranganadi - Naharlagun / Nirjuli at Pare HEP so as to form direct Ranganadi- Naharlagun / Nirjuli 132 kV S/c line	132kV	Regarding bypassing of LILO at (a), work has been awarded in Dec, work to be completed in 4 months from LoA, The LILO portion is about 2.2km & the cost estimates have been received by NEEPCO. Upon approval of the same, work shall be awarded. Expected to be awarded shortly.	To be completed by NEEPCO by April 2023 i.e. prior to ISTS works i.e. July 2023.
b)	Re-conductoring of LILO portion at Pare end (of Ranganadi - Naharlagun / Nirjuli 132kV S/c line) with HTLS (HTLS equivalent to ACSR Zebra) along with modification of 132kV bay equipment at Pare HEP	132kV		

D.5. Status Review for the Items Referred from previous OCCMs:

S.No	Item for Discussion	Status as per 198 th OCCM	Latest Status
1.	Introduction of SPS in Leshka S/Sn of Meghalaya (Agenda No. C4 of 189 th OCCM)	OEM has visited the site and proposed certain modifications in the original scheme. The finalised scheme will be submitted to the higher management in the following week.	Cost estimate from M/s Hitachi is awaited. Logic and scheme finalization done.
2.	Voltage and MVAR issues at 400kV Kameng S/Sn (Agenda No. C7 of 189 th OCCM)	Discussion with OEM is underway	Discussion with OEM is underway
3.	Difficulty in test synchronization at Ningthoukhong S/Sn (installation of line CVT) (Agenda No. C11. of 189 th OCCM)		
4.	Outage of 400kV Imphal (PG) – Thoubal-I (Agenda B.15 of 184 th OCCM)	Litigation pending in court	Litigation pending in court
5.	Charging of 33kV Khupi-Kimi line at 132kV: Recommendations of the 187 th OCCM to be implemented: (a) Installation & Commissioning of PLCC and additional Wave Trap with accessories at Khupi	GM, NEEPCO informed that at one location landslide has reduced ground clearance, land clearing work is being undertaken by NEEPCO, to be completed by 10 th Feb. All other	OPGW stringing work has been started by Comprehensive.

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	<p>(NEEPCO) - By Mar'22 Minutes of 188th OCC meeting held on 16th March, 2022 at Guwahati</p> <p>(b) Defective Relays at Khupi end to be repaired (NEEPCO) – By Mar'22</p> <p>(c) PID testing and replacement of defective insulators (NEEPCO) – By Mar'22</p> <p>(d) Infringement checking and vegetation clearance (NEEPCO) – By Mar'22</p> <p>(e) Stringing of OPGW by POWERGRID Comprehensive – By Mar'22</p> <p>(f) Procurement and installation of Line Differential Relays (NEEPCO) – By Mar'22 (Agenda B.15 of 188th OCCM)</p>	<p>works in account of NEEPCO is completed.</p> <p>Regarding OPGW work, Comprehensive updated that mobilization of man and materials in progress. Work to start from 06.02.2023 and to be completed by the end of Feb'23</p>	<p>Work in scope of NEEPCO to be completed in matching timeline.</p>
6.	<p>Synchronization issue of 220kv AGBPP – Tinsukia 1 & 2 at AGBPP end. (NEEPCO to update the status of CVT procurement and other relevant details.) Item B.24 of 190th OCCM.</p>	<p>Tender floated in the month of August'2022.</p>	
7.	<p>Implementation of Single Phase Auto-Reclosure for 132kV Rangia- Motonga (C.14 of 191st OCCM)</p>	<p>March'23</p>	<p>Shutdown applied for the month of March'23</p>
8.	<p>Grid Disturbance in Dhaligaon area of Assam Power System (C.18 of 191st OCCM)</p>	<p>Revised estimate submitted to Disaster Risk reduction Works, 2022-2023, yet to be approved</p>	<p>Revised estimate submitted to Disaster Risk reduction Works, 2022-2023, yet to be approved</p>
9.	<p>Tower schedule of 220 KV D/C Transmission line (from Zhadima 400/220 KV GIS Substation to Zhadima 220 KV Substation) (B.18 OF 194TH OCC)</p>	<p>Will be provided before OPGW installation in N Kohima - Zhadima Line.</p>	<p>Will be provided before OPGW installation in N Kohima - Zhadima Line.</p>
10.	<p>Restoration of 400 kV STG-1 Main Bay at OTPC Palatana (C.6 of 194th OCCM)</p>	<p>OEM visited the site, faulty cables to be replaced soon</p>	<p>WIP</p>
11.	<p>Occurrence of Multiple grid disturbance in Gohpur and radially connected areas of Assam Power System (C.10 of 194th OCC)</p>	<p>SEM meters provided by PGCIL, both lines bays commissioned from AEGCL end. AeGCL scope of work done, Sterlite scope of work remaining</p>	

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12.	Status of Installation of TLSA in 400kV Silchar-Azara T/L & 400 kV Silchar-Byrnihat T/L (C.12 of 194 th OCCM)	Tendering completed, LoA awarded, supply will start soon	LoA placed, expected completion of the delivery by June'23
13.	PLCC & protection related issues at 132kV Tipaimukh S/s (C.15 of 194 th OCC) & (C.8 of 197 th OCC)	PLCC engineer to visit the SS in last week of December. (MSPCL)	
14.	48V System reliability at Pasighat end (C.16 of 194 th OCC)	March'23	March'23
15.	Construction of Anchor tower at location 433 by PGCIL and reconductoring of 220kV Mariani-Mariani SC with Moose conductors(B.16 of 196 th OCCM)	Approved in OCC(1 st to 4 th Feb'23) and work has been taken up by the site	
16.	Early Restoration of Y-pole Circuit Breaker at AGTCCPP for 132 kV Agartala I Line (Agenda C.11 of 198 th OCCM)	To rectify the CB, gasket replacement work is being done and expected revival date is 5th Feb'23	WIP
17.	Non reporting of 132kV Mohanpur S/S under NERPSIP and Comprehensive projects (B.18 of 198 th OCCM)	OPGW break found in 132kV Mohanpur - Dhalabil line. The fiber link break issue in the existing line was resolved by state utility on 17.01.2023 and informed to POWERGRID by 18.01.2023. POWERGRID is planned to depute engineer and establish communication on or before 31.01.2023	The fiber link break issue in the existing line was resolved by state utility on 17.01.2023 and informed to POWERGRID by 18.01.2023. SAS engineer and FOTE engineers are working at site. FOTE link established. VOIP connection has been tested with SLDC. Data routing will complete by 25.02.23
18.	Commissioning of 400kV Bus-B at Ranganadi Power Station (C.14 of 192 nd OCCM)	In 193 rd OCCM, forum requested NEEPCO to put forth agenda for upgradation of 400 kV switchyard to GIS and implementation of 400 kV Bus-B together. Status of the same may be provided by NEEPCO	

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19.	Implementation of Bus Bar Protection at 132 kV Kahilipara (AEGCL) Substation (C.8 of 196 th OCCM)	As per minutes of 196 th OCCM, AEGCL to expedite the installation and update latest status.	
20.	Furnishing of data as per Detailed Procedure on interim methodology for estimation of Reserves under CERC (Ancillary Services) Regulations, 2022(item C.4 pf 198 th OCCM)	Data received from Assam. Other states are yet to furnish.	NERLDC thanked SLDC Nagaland for furnishing the data for estimation of reserves. Other NER states assured to provide the data at the earliest. NERLDC mentioned that the states may contact Manager NERLDC for clarifications (if any).

E. METERING ITEMS

E.1. Procurement of SEM & DCD/Laptop for future requirements:

NERTS may intimate the status of procurement of Additional 40 nos. of DCD.

In 198th OCCM, PGCIL updated that Inspection at Factory was completed on last week of January 23. Delivery by the OEM, M/s SANDS is expected by 3rd week of February'23. Status may be reviewed.

Deliberation of the sub-committee

Deputy Manager, PGCIL/NERTS intimated that the OEM M/s SANDS has proposed some changes in the design of the DCDs, for which type testing will be conducted in 1st week of March'23 and if approved, dispatch will start from the second week of March'23.

The sub-committee noted as above

Action: NERTS

E.2. Issues regarding SEM Data Processing:

a. Non-receipt of SEM data from 132 kV Pailapool Substations:

Weekly SEM data of 132 kV Pailapool (As) Substations is important for accounting of Assam drawal. However, SEM data from the said substation is not being received. In 198th OCCM, Assam updated that procurement of new laptop is under process. Regarding laptop at Karimganj problem in Operating system is being rectified. Status may be reviewed.

b. Erroneous reading of Tipaimukh end of 132kV Aizwal-Tipaimukh line:

Tipaimukh end of 132kV Aizwal-Tipaimukh line is reading close to 0 (Zero). In 198th OCCM, PGCIL updated that they had delivered the SEM to Manipur state official, who have stated that they will install the SEM in their premises by themselves.

Deliberation of the sub-committee

a) AEGCL updated that procurement of new laptop is under process and new issues have emerged with the DCD, rectification underway.

b) Deputy Manipur, MSPCL updated that the SEM will be installed within two days.

The sub-committee noted as above

Action: AEGCL, MSPCL, NERTS

E.3. High Time Drifted SEMs:

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 4 mins observed in the following meters.

S.No	ENTITY	FEEDER NAME	METER NO
1	ASSAM	220 kV TINSUKIA END OF KTG FDR-I	NP-9654-A
2	ASSAM	220 kV TINSUKIA END OF KATHALGURI FDR-II	NP-9658-A
3	ASSAM	132 kV UMRANGSOO END OF KHLEIRIAT (PG)	NP-5290-A
4	ASSAM	132 kV UMRANGSOO END OF HAFLONG	NE-0019-A
5	ASSAM	132 kV RANGIA END OF MOTONGA	NP-9669-A
6	MIZORAM	132 kV KOLASIB END OF AIZAWL(PG) FDR	NE-0087-A
7	POWERGRID	400/132kV SILCHAR 200MVA ICT-1 (HV SIDE)	NE-0050-A
8	POWERGRID	400 kV SILCHAR END OF BYRNIHAT	NP-9398-A
9	POWERGRID	400 kV SILCHAR END OF PALATANA FDR-I	NE-0030-A
10	POWERGRID	400/132 kV SILCHAR ICT-3 (HV SIDE)	NP-6946-A
11	POWERGRID	400/132 SILCHAR END OF MISA FDR-I	NP-9925-A
12	POWERGRID	400 kV SILCHAR END OF IMPHAL-II	NE-0040-A
13	POWERGRID	400 kV SILCHAR END OF PK BARI (STERLITE)-I	NP-9901-A
14	POWERGRID	400 kV SILCHAR END OF IMPHAL-I	NE-0007-A
15	POWERGRID	132 kV SILCHAR END OF SRIKONA-I	NP-9895-A
16	POWERGRID	400 kV BONGAIGAON END OF NTPC_BgTPP-2	NP-9477-A

Note: Out of 90 Locations, appx. 35-40 Nos. of locations send SEM Time Drift Report. In 198th OCCM, PGCIL: PGCII updated that for all the said meters, the time drift corrections are being done by DCDs and are in process of compliance as per 197th OCC, 1 minute/ week.

Assam: T&C will take up the work, Manipur: Thoubal personnel will take up the matter and for Mizoram: PGCIL will help.

Status may be reviewed.

Deliberation of the sub-committee

AEGCL intimated that the time drift observed in the SEMs are high and replacement is required. A committee has also been formed in this regard.

ED NERLDC highlighted that allowed time drift correction rate is 1min per week and raised concern that the replacement may not be required for the SEMs of Assam and state should make efforts to correct the time drift at regular intervals.

PGCIL updated that correction of time drift of SEMs is underway and will be completed at the earliest.

The sub-committee noted as above

Action: NERTS, AEGCL

E.4. Non-receipt of Quarterly RPO Compliance details from Arunachal Pradesh & Tripura:

As per MoP RPO Order vide 29th January 2021, POSOCO will maintain data related to compliance of RPOs. In line to that necessary communication had been sent to all SLDCs and we are receiving data on regular basis from all SLDCs except SLDC, Arunachal Pradesh & SLDC, Tripura.

Deliberation of the sub-committee

DoP Ar. Pradesh and SLDC Tripura assured the forum that they will start providing the required data regularly to NERLDC.

The sub-committee noted as above

Action: DoP Ar. Pradesh, SLDC Tripura

Annexure-I**List of Participants in the 199th OCC Meeting held on 22.02.2023**

SN	Name & Designation	Organization	Contact No.
1	Sh. N. Perme, SE (E)	Ar. Pradesh	09436288643
2	Sh. Md. Maswood Naser, CGM, SLDC	Assam	-
3	Ms. Jayashree Devi, GM (M&PR), AEGCL	Assam	09854076553
4	Ms. Rodali Khaund, DGM, SLDC	Assam	06901255808
5	Sh. Ashutosh Bhattacharjee, DGM, SLDC	Assam	09954106916
6	Sh. P. Saha, AGM (SCADA)	Assam	09435561777
7	Sh. N. Baruah, AGM (SO)	Assam	07002885719
8	Ms. Barsha Kashyap, Dy. Mgr (SLDC)	Assam	09706692773
9	Sh. C Warish Khan, Mgr	Manipur	09615350963
10	Sh. H.F.Shangpliang, ACE (T&T), MePTCL	Meghalaya	09863315562
11	Sh. K.Lyngwa, EE (T&T), MePTCL	Meghalaya	09402506948
12	Sh. J.A.W. Pariat, EE (MLED), MePGCL	Meghalaya	09856005898
13	Sh. D.J.Lyngdoh, EE (SM), MePTCL	Meghalaya	-
14	Sh. A.Shullai, AEE (GSPD), MePGCL	Meghalaya	07005379616
15	Sh. Y.lakai, AEE, (SLDC), MePTCL	Meghalaya	09402133552
	No Representative	Mizoram	-
	No Representative	Nagaland	-
16	Sh. Anil Debbarma, DGM (SLDC)	Tripura	09612589250
17	Sh. Joypal Roy, GM	NEEPCO	08837200069
18	Sh. Mukul Sarma, GM (E/M)	NEEPCO	09435339724
19	Sh. N. Roy, ED	NERLDC	09869080265
20	Sh. B. Sahu, Sr.GM	NERLDC	09425409539
21	Sh. Sourav Mandal, Manager	NERLDC	09402102354
22	Sh. Palash Jyoti Borah, Dy. Manager	NERLDC	08761093397
23	Sh. P. Kanungo, CGM (AM)	PGCIL	09436302823
24	Sh. Deep Sarkar, Manager	PGCIL	09957665341
25	Sh. Raktim Konwar, Manager	PGCIL	09678682358
26	Sh. Abhilash A, Asst. Mgr	PGCIL	-
27	Sh. Prabhat Chandra, Head-O&M	OTPC	09560299324
28	Sh. Ratan Singh Basnet, Mgr.	NETC	08811072489
29	Sh. Akan Basumatary, Sr. Mgr (E)	NHPC	07086071190
30	Sh. Kangkan Paul, Mgr	NTPC	09435029230
31	Sh. Manoj Gupta, Sr. Mgr (TL)	KMTL	09996789264
32	Sh. Vivek Karthikeyan, Sr. Mgr	INDIGRID	08966903034

33	Sh. Jeetendra Bisht, VP	STERLITE	07042552553
34	Sh. N. Chakraborty, AVP &Project Head	STERLITE	07896022335
35	Sh. Balaji Sivan, Director	STERLITE	08527544855
36	Sh. Prateek Mohan Rai, AGM-Asset-Mgr	STERLITE	09350111274
37	Sh. Biswajit Nag, Chief Manager-Project	STERLITE	09617355986
38	Sh. K. B. Jagtap, Member Secretary	NERPC	09436163419
39	Sh. S. M. Aimol, Director/SE	NERPC	08974002106
40	Sh. Shaishav Ranjan, DD/EE	NERPC	08787892650
41	Sh. Vikash Shankar, AD-I/AEE	NERPC	09455331756
42	Sh. Rajib Das, AD-I/AEE	NERPC	-

उ.पू.क्षे ग्रीड प्रदर्शन

NER GRID PERFORMANCE

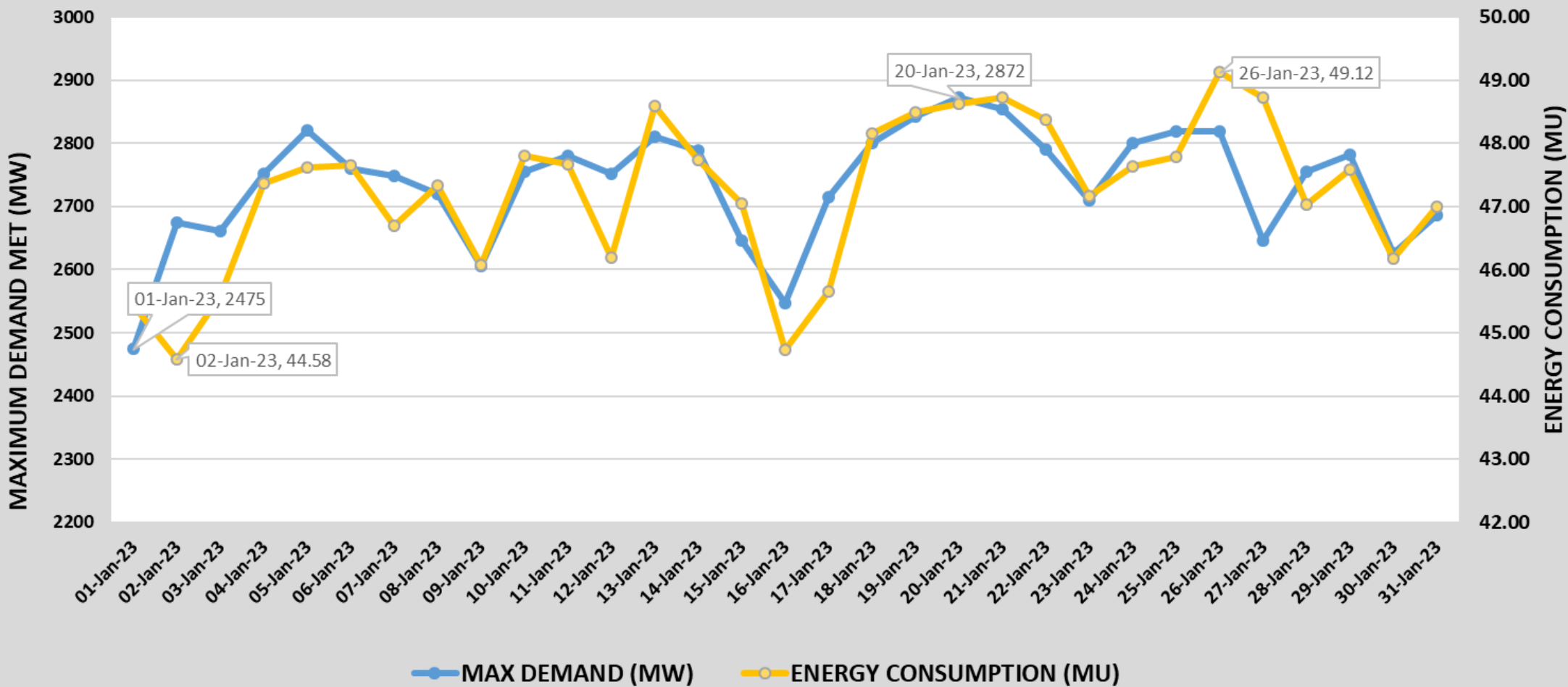
For the month January 2023

North-Eastern Regional Load Despatch Centre

Grid-India, Shillong

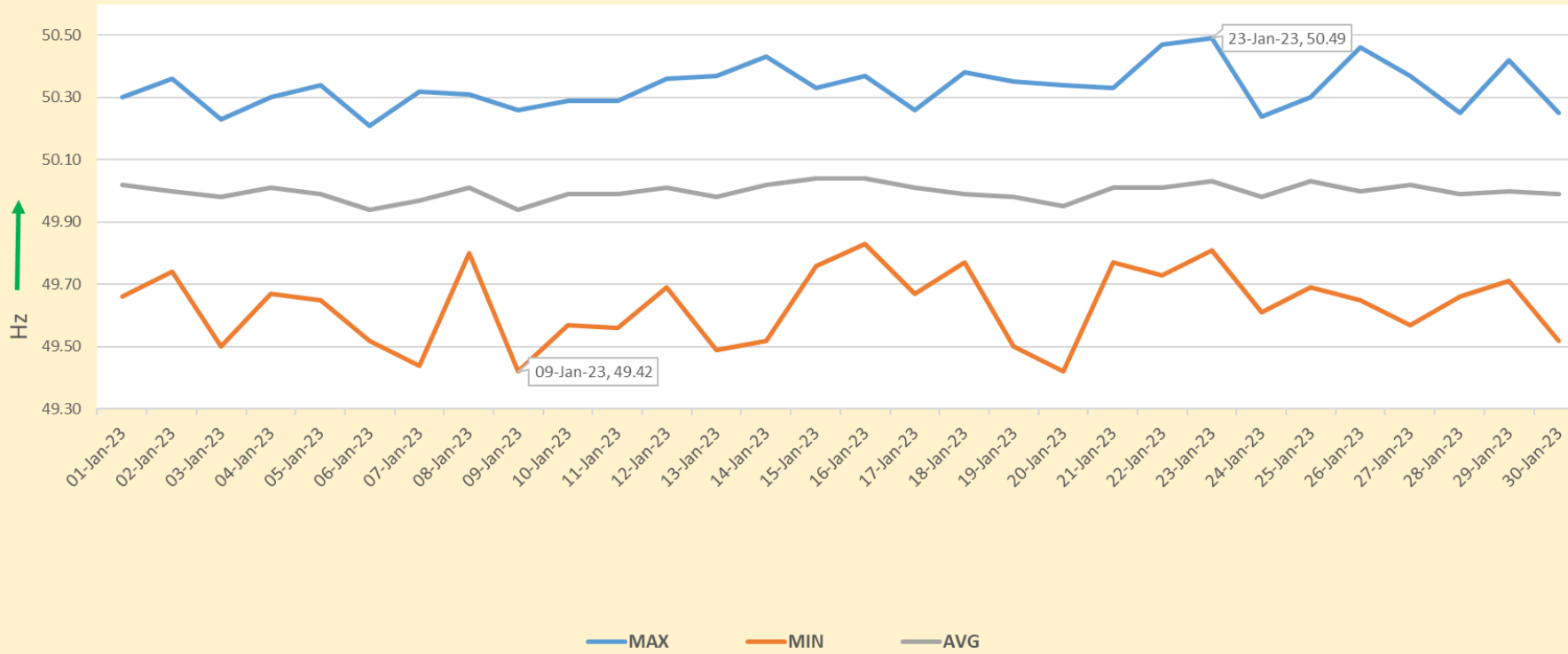
Maximum MW and MU in NER: January 2023

Maximum Demand (MW) and Energy Consumption (MU)

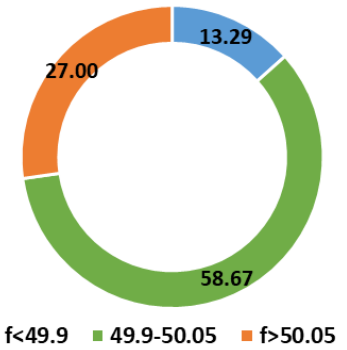


Frequency Profile

FREQUENCY PROFILE Jan'23

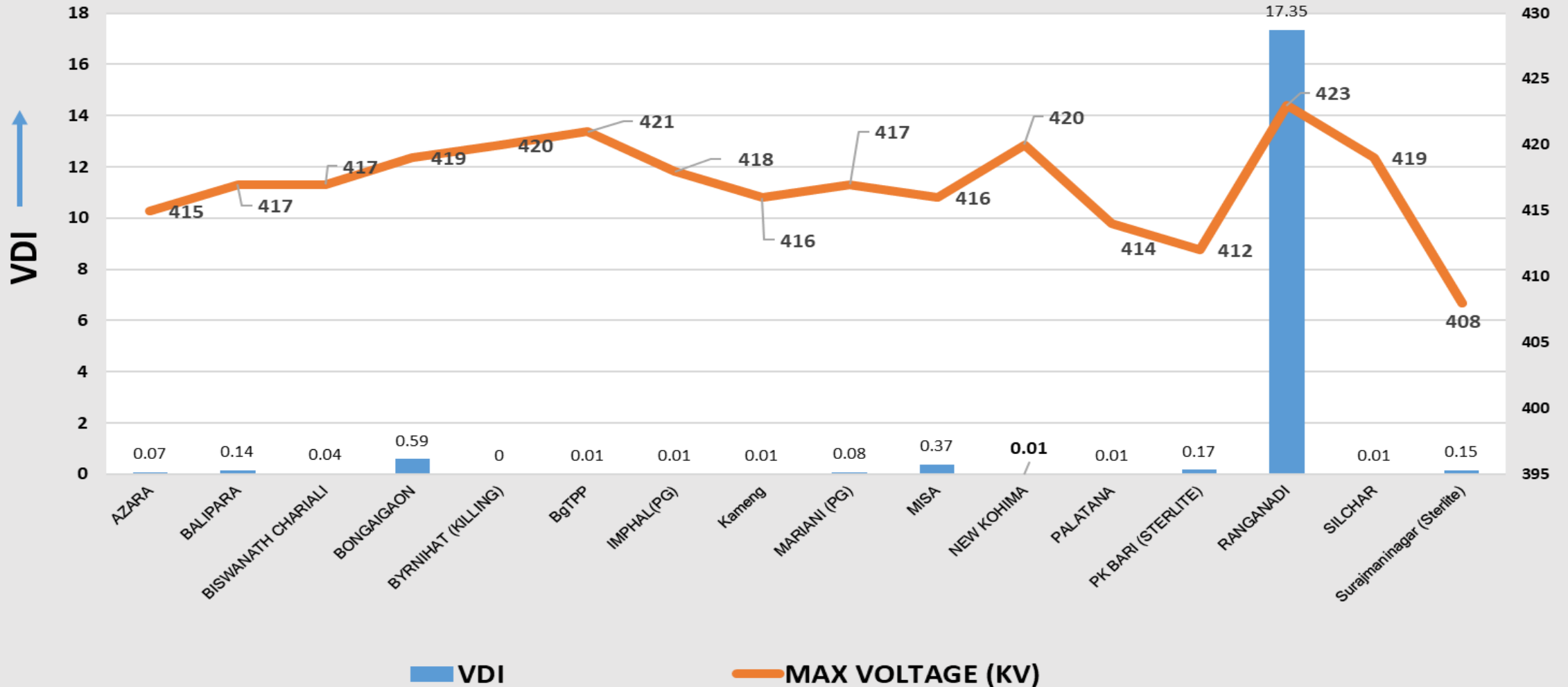


FREQ PROFILE FOR Jan'23

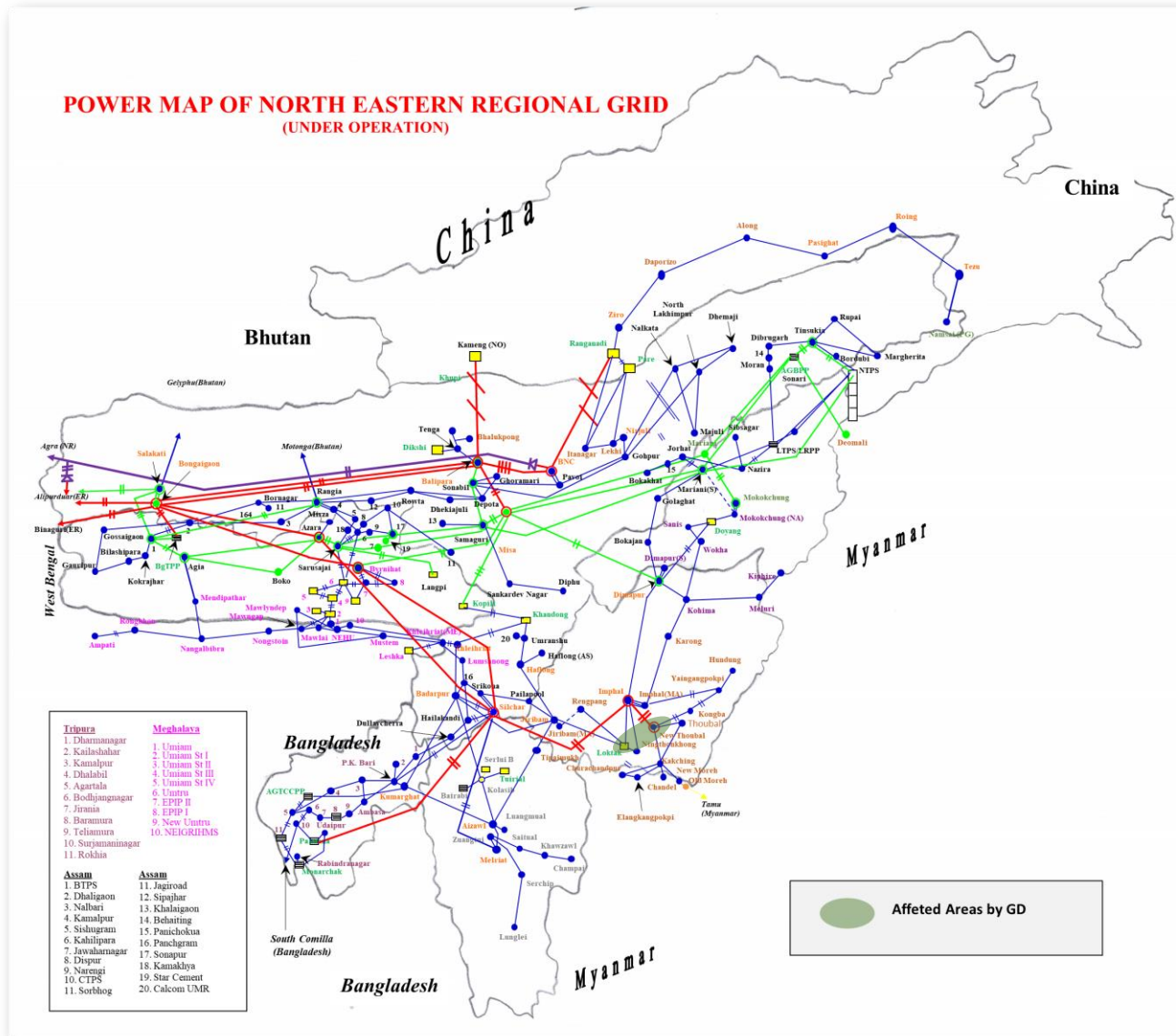


VDI (400 KV) FOR January 2023

No. of 400 kV lines kept open for over voltage : 2



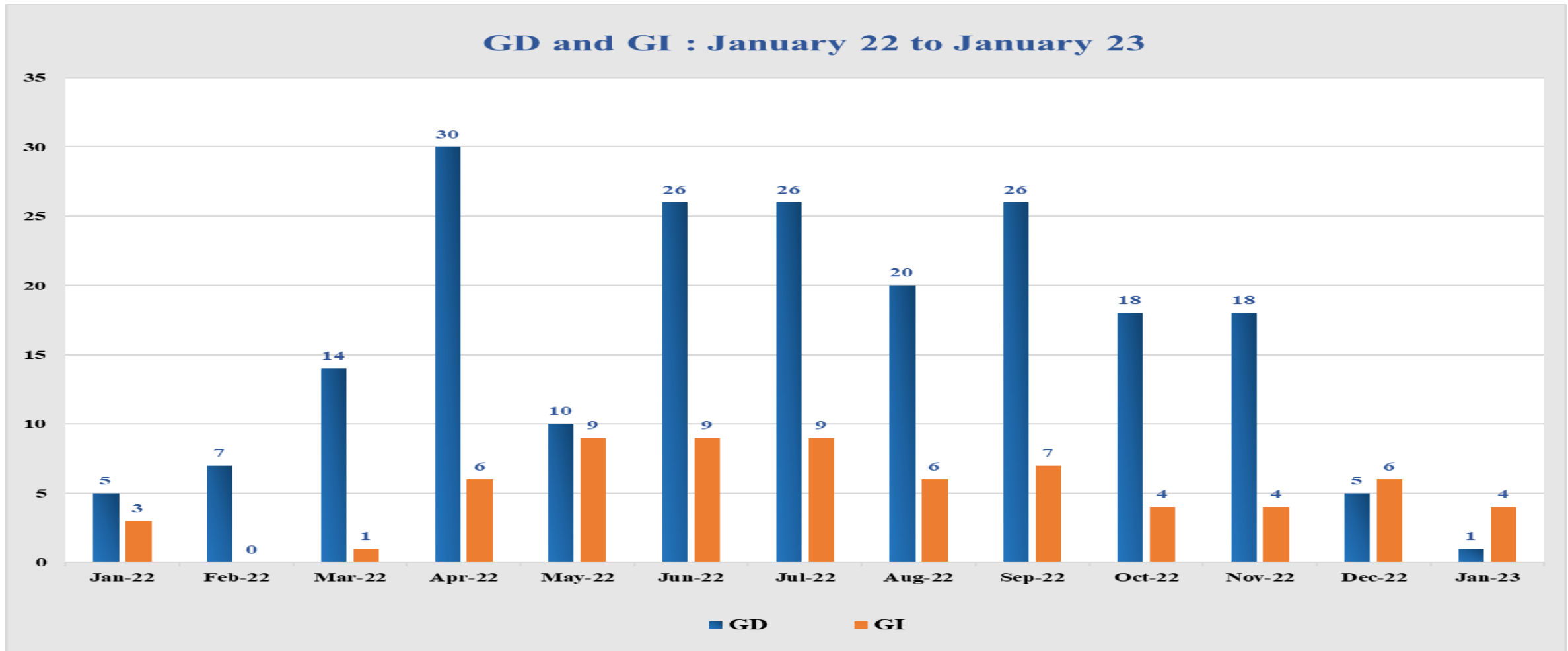
Grid Disturbance during January 2023



No. of GD	1
No. of GI	4

SI. No.	Element	Number of times
1	132kV Imphal(PG) – Ningthoukhong, 132kV Loktak- Ninghtoukong, 132kV Loktak-Rengpang, 132kV Loktak - Imphal	caused GD 1 time

Grid Disturbance/Incidences for last 12 Months



Projected Hydro Generation Availability

Plants	Reservoir Level in meters (as on 20/02/2023)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong + Kopili STG II	-	-	-	-
Kopili	-	-	-	-
Doyang	311.9	8	0.16	50
Loktak	766.63	16	0.24	67

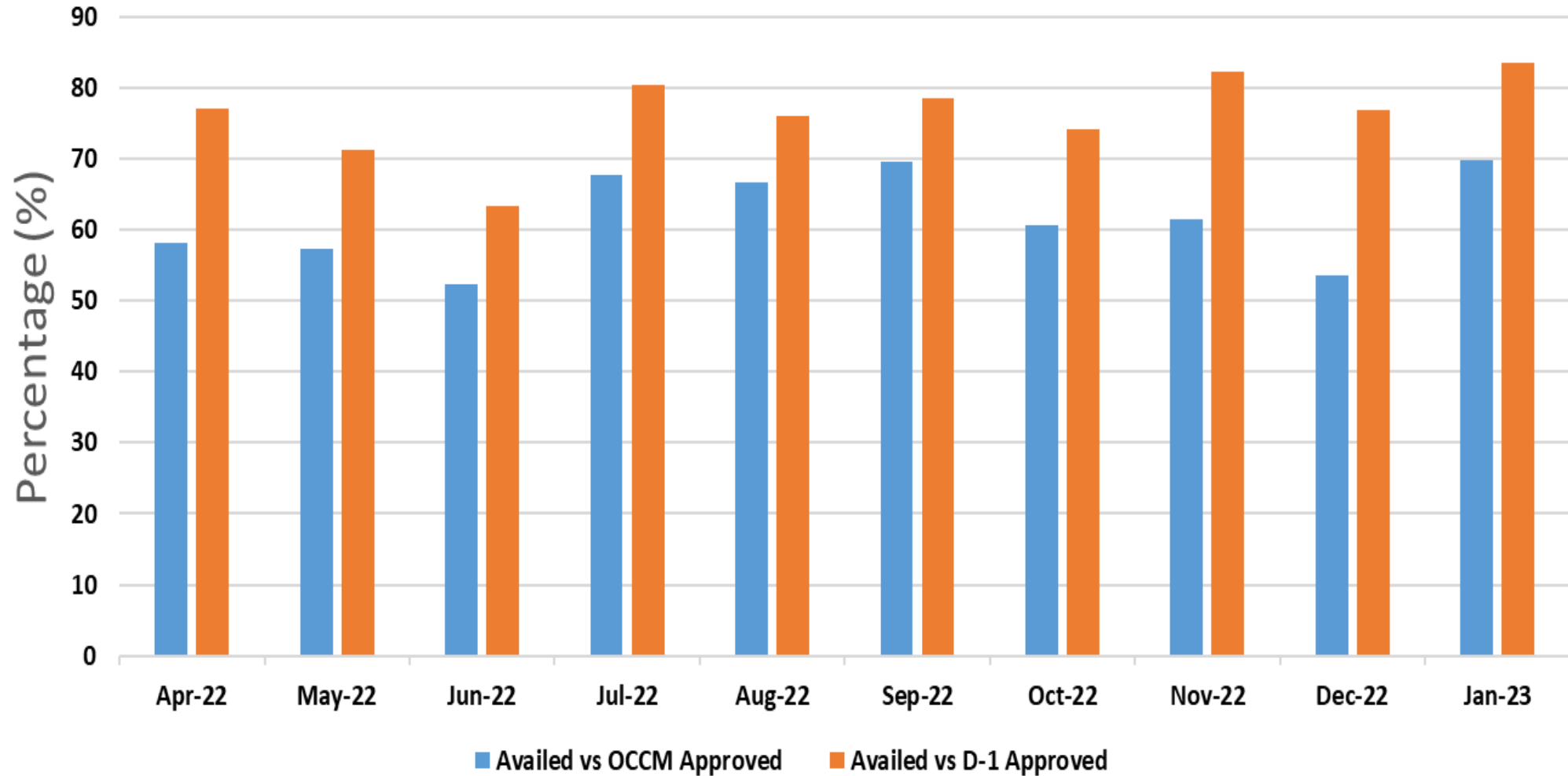
OCC approved shutdown availing status for the month of January 2023

SUMMARY OF NER OUTAGE

MONTH	PLANNED IN OCC	APPROVED IN D-1	AVAILED IN REAL TIME	AVAILED VS PLANNED	AVAILED VS APPROVED	DEFERRED BY RLDC DUE TO SYSTEM CONSTRAINT
January-23	231	193	161	69.70%	83.42%	10

	OCC Approved	D-1 Approved	Availed	Not Availed	RLDC Deferred
NER	231	193	161	22	4
NERTS	140	120	96	14	4
ASSAM	40	34	32	2	0
MANIPUR	0	0	0	0	0
MEGHALAYA	3	3	3	0	0
NAGALAND	0	0	0	0	0
MIZORAM	0	0	0	0	0
TRIPURA	7	5	3	2	0
Arunachal Pradesh	16	10	8	2	0
NETC	0	0	0	0	0
KMTL	0	0	0	0	0
NEEPCO	7	4	3	1	0
NTPC	1	0	0	0	0
OTPC	4	4	3	1	0
INDIGRID	13	13	13	0	0
NHPC	0	0	0	0	0

Approved Shutdown availing trend in percentage



RMSE of Load forecast for Jan'23

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

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

Where,

Predicted_i = Forecasted Value

Actual_i = Actual value

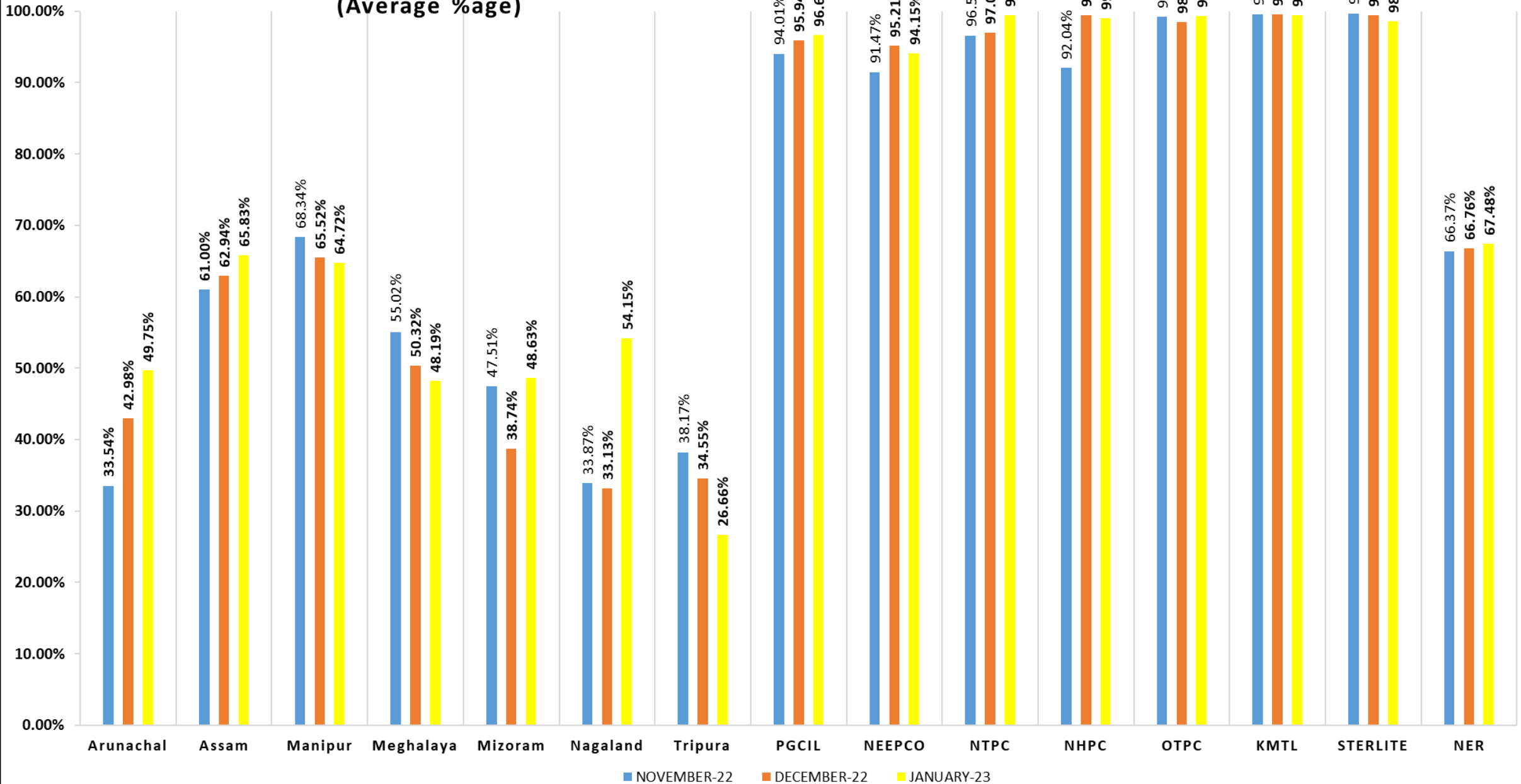
N = Total number of observations.

	Arunachal Pradesh	Assam	Manipur	Meghalaya	Mizoram	Nagaland	Tripura
Median	12	6	9	6	11	8	10



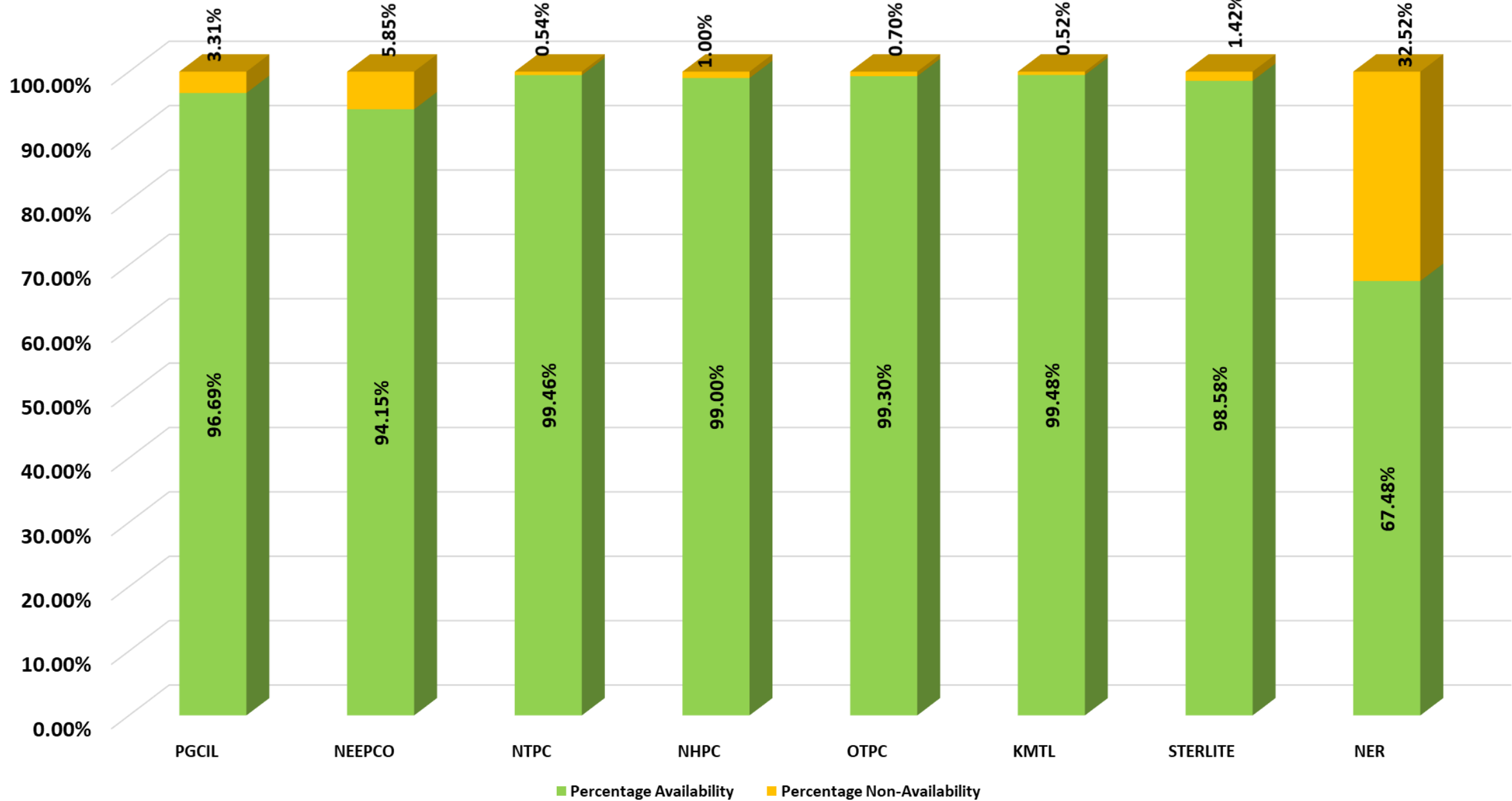
Telemetry and Data Availability

Comparison of Telemetry Availability Statistics (Average %age)

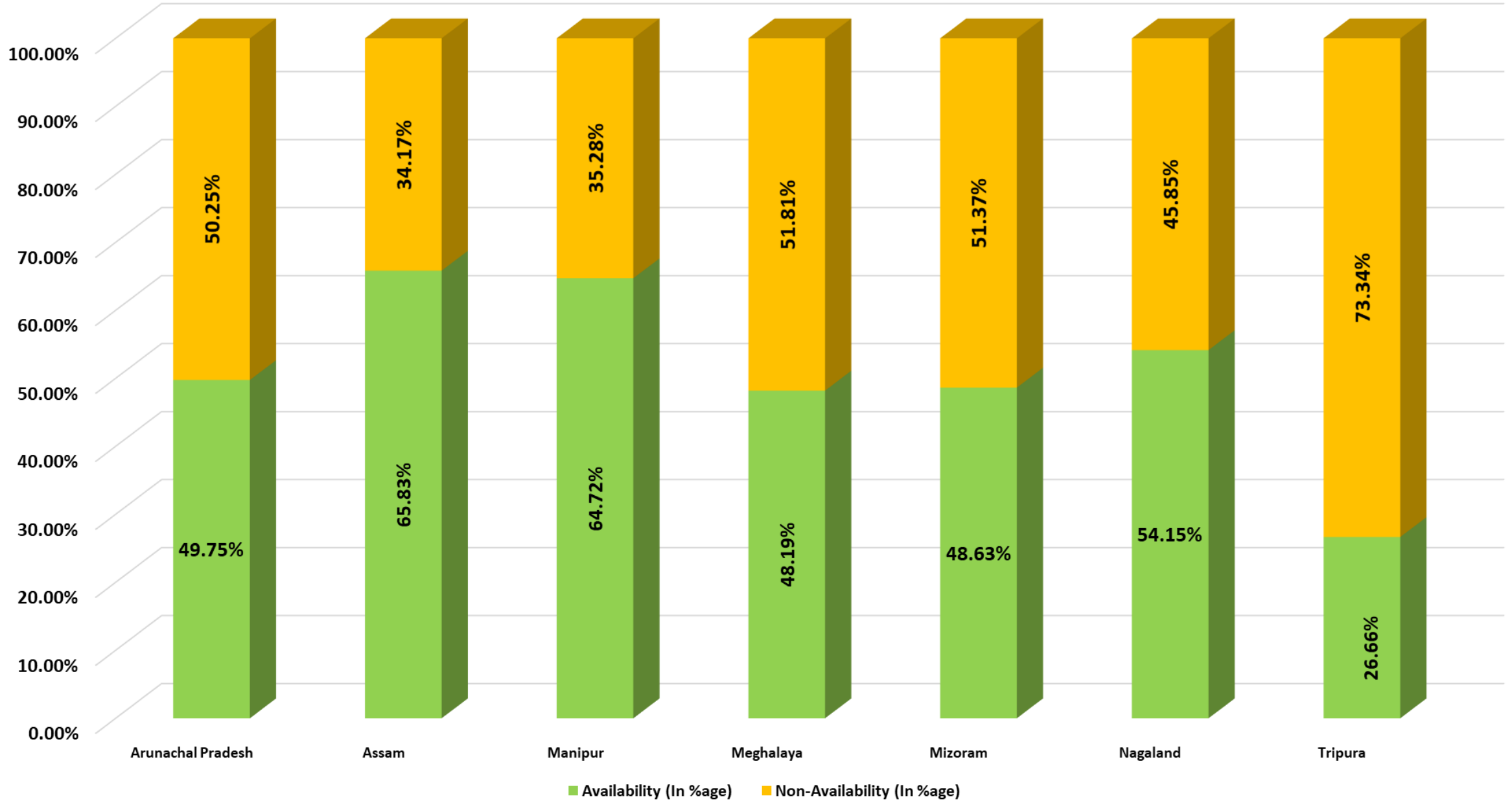


Telemetry Statistics for Central Sector of NER (Average availability of data for the Month of JANUARY

'23)



Telemetry Statistics for NER States (Average availability of data for the Month of JANUARY '23)





Thank You

Sl	Name of Element	Mar-23																															Time	Reason	Category		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
SHUTDOWNS PROPOSED BY PGCIL																																					
132kV Transmission lines																																					
1	132KV R C Nagar- Agartala - II TL																																0700 Hrs to 1600 Hrs	AMP of 132KV R C Nagar Bay-II at 132KV 79Tlla S/S	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132 kV R C Nagar- Kumarghat line and 132 kV R C Nagar - P K Bari I & II. Consent from SLDC Tripura required.	
2	132KV BADARPUR - KOLASIB TL																																0700 Hrs to 1600 Hrs	AMP of Badarpur Bay at Kolasib end and TL works at Badarpur end	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132 kV Aizawl-Kolasib, 132 kV Aizawl - Melriat line, 132 kV Aizawl - Tipamukh-Jiribam link and 132 kV Aizawl - Kumarghat line. Consent from SLDC Mizoram required.	
3	132KV AIZAWL-LUANGMUAL (P&E, Mizoram)																																0900Hrs to 1400Hrs	Installation and Commissioning of new P543 Line Differential Relay for Aizawl Bay at Luangmual S/S (P&E, Mizoram) under GIS Upgradation project of Aizawl S/S	Existing system improvement related shutdown.	SD may be availed. Flow in 132 kV Melriat (PG) - Zensabark line to be kept within 74 MW. However, the same can be increase if there is no low voltage issues observed in Mizoram Power System. Consent from SLDC Mizoram required.	
4	132KV AIZAWL-MELRIAT (P&E, Mizoram)																																0700Hrs to 1800Hrs	Installation and Commissioning of new P543 Line Differential Relay for Aizawl Bay at Luangmual S/S (P&E, Mizoram) under GIS Upgradation project of Aizawl S/S	Existing system improvement related shutdown.	SD may be availed. 132 kV Badarpur - Kolasib - Aizawl line, 132 kV Jiribam - Tipamukh - Aizawl link, 132 kV Kumarghat - Aizawl line to be kept in service. Consent from SLDC Mizoram required.	
5	132KV AIZAWL - KOLASIB (P&E, Mizoram)																																0700Hrs to 1800Hrs	Installation and Commissioning of new P543 Line Differential Relay for Aizawl Bay at Luangmual S/S (P&E, Mizoram) under GIS Upgradation project of Aizawl S/S	Existing system improvement related shutdown.	The SD may be availed subject to availability of 132 kV Badarpur-Kolasib, 132 kV Aizawl - Melriat line, 132 kV Aizawl - Tipamukh-Jiribam link and 132 kV Aizawl - Kumarghat line. Consent from SLDC Mizoram required.	
6	132KV S/C AIZAWL-KUMARGHAT TL																																0700Hrs to 1800Hrs	RECTIFICATION OF S/D NATURE DEFECTS IDENTIFIED DURING PATROLLING OF TRANSMISSION LINE.	Normal Maintenance related shutdown.	SD may be availed. 132 kV Badarpur - Kolasib - Aizawl line, 132 kV Jiribam - Tipamukh - Aizawl link, 132 kV Melriat - Aizawl line to be kept in service. Consent from SLDC Mizoram required.	
7	132kV Khlhiehat Khandong - 1 TL																																0800 Hrs to 1600 Hrs	LBB relay retrofiting	Existing system improvement related shutdown.	SD may be availed with consent from SLDC Assam and NEEPCO. No overloading issue in 132 kV Khlhiehat Khandong II TL as 132 kV Jiribam - Halfong line is kept opened.	
8	132kV Khlhiehat Badarpur - 1 TL																																0800 Hrs to 1600 Hrs	removal of balance arching horn from the line	Existing system improvement related shutdown.	At present, due to low generation at Meghalaya power system and outage of 132 Khandong-Kopili link, 132 kV Halfong-Jiribam line and 132 kV Loktak-Jiribam line, the Meghalaya power system is not N-1 compliant. The SD may only be availed after restoration of Khandong-Kopili link and/or other above lines under outage.	
9	132kV Loktak - Jiribam TL																																CSD 0900Hrs to 1600Hrs	For conductor restringing to HTLS under NERSS project	Construction Related Shutdown	SD may be availed. FTC to be processed.	
10	132 KV Balipara - Khupi TL																																0800 Hrs to 1600 Hrs	AMP of Khupi Bay	Normal Maintenance related shutdown.	SD may be availed. Consent from SLDC, Arunachal Pradesh may be obtained as Khupi, Teng, Dibahi will be out of service when the shutdown is availed.	
11	132kV BNC PavoI - 1 TL																																0700 Hrs to 1500 Hrs	Installation of Line differential relay at both ends	Existing system improvement related shutdown.	SD may be availed subject to availability of 132 kV BNC-PavoI 2 TL. Loads in PavoI, Golpur, Majuli, Lakhimpur, Dimaaji to be kept within the allowable loading of 132 kV BNC-PavoI 2 TL, which is 84 MVA. Consent from SLDC Assam may be obtained.	
12	132kV BNC PavoI - 2 TL																																0700 Hrs to 1500 Hrs	Installation of Line differential relay at both ends	Existing system improvement related shutdown.	SD may be availed subject to availability of 132 kV BNC-PavoI 1 TL. Loads in PavoI, Golpur, Majuli, Lakhimpur, Dimaaji to be kept within the allowable loading of 132 kV BNC-PavoI 1 TL, which is 84 MVA. Consent from SLDC Assam may be obtained.	
13	132kV Badarpur-Silchar-2 TL																																0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 relay	Existing system improvement related shutdown.	At present, due to low generation at Meghalaya power system and outage of 132 Khandong-Kopili link, 132 kV Halfong-Jiribam line and 132 kV Loktak-Jiribam line, the Meghalaya power system is not N-1 compliant. The SD may only be availed after restoration of Khandong-Kopili link and/or other above lines under outage.	
14	132kV Badarpur-Panchgram (Badarpur/AEGL) TL																																0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 relay	Existing system improvement related shutdown.	At present, due to low generation at Meghalaya power system and outage of 132 Khandong-Kopili link, 132 kV Halfong-Jiribam line and 132 kV Loktak-Jiribam line, the Meghalaya power system is not N-1 compliant. The SD may only be availed after restoration of Khandong-Kopili link and/or other above lines under outage.	
15	132kV Badarpur-Jiribam TL																																0800Hrs to 1200Hrs	Firmware upgradation of Micom P442 relay	Existing system improvement related shutdown.	The SD may be availed subject to availability of 132 kV Aizawl-Kolasib-Badarpur link, 132 kV Silchar-Badarpur DC and 132 kV Badarpur-Karriganj-Kumarghat link.	
		Mar-23																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
16	132kV Karimganj-Kumarghat TL																																	0800Hrs to 1600Hrs	Infringement clearing works at span loc 194-195, 234-240	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132 kV Badarpur Karimganj line. Consent to be taken from SLDC, Assam
17	132kV Mokokchung - Mokokchung - 1 TL																																	0800Hrs to 1600Hrs	AMP of Mokokchung bay at state end	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132 kV Mokokchung - Mokokchung - 2 & 132 kV Doyang-Mokokchung line. Consent from SLDC Nagaland to be taken
18	132kV Mokokchung - Mokokchung - 2 TL																																	0800Hrs to 1600Hrs	AMP of Mokokchung bay at state end	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132 kV Mokokchung - Mokokchung - 1 & 132 kV Doyang-Mokokchung line. Consent from SLDC Nagaland to be taken
19	132kV Silchar - Melriat - 1 TL																																	0800Hrs to 1600Hrs	Insallation of DTPC panel	Existing system improvement related shutdown.	SD may be availed subject to availability of 132 kV Silchar - Melriat - 2 line.
20	400kV Palatana-SMNagar(STS) line																																	0600Hrs to 1530Hrs	for Construction works of LILO of 400kV DC Palatana-SMNagar line at SMNagar(TSECL) SS under project-NERSS-XIV	Construction Related Shutdown	SD may be availed. SPS related to tripping of 400 kV Silchar - Palatana DC to be kept in service. Also, 400 kV Silchar - PKBari - SMNagar link to be kept in service.
21	132kV Ziro - Ranganadi TL																																	0800Hrs to 1600Hrs	for commissioning of ABB make PLCC panels	Existing system improvement related shutdown.	SD may be availed after consent from SLDC, AP is received as Ziro- Daporijo-Along-Pasighat-Rong-Tezu-Namsai link (with loads) will be out due to the shutdown.
22	132kV Kumarghat- Karimganj TL																																	CSD 0900Hrs to 1600Hrs	for leakage attending of Bus Duct chamber (by M/s Takai as part of Construction defect rectification)	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132 kV Badarpur Karimganj line. Consent to be taken from SLDC, Assam
23	132kV Dimapur- Imphal Line																																	0700Hrs to 1800Hrs	Construction related- for GI Bus Duct erection work under NERSS-XIII at Imphal end.	Construction Related Shutdown	SD may be deferred until revival of 132 kV Loktak - Jiribam(PG) line. Consent from SLDC, Manipur may be taken
24	A/R of 132kV Pasighat-Roing TL																																	0700Hrs to 1700Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
25	A/R of 132kV AIZAWL-TIPAIMUKH																																	0700Hrs to 1700Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
26	A/R of 132 KV KHUPI - KIMI LINE																																	0700Hrs to 1700Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
27	A/R of 132 KV BALIPARA - KHUPI LINE																																	0700Hrs to 1700Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
		Mar-23																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
220kV Transmission lines																																					
28	220kV Mariani (PG)- Mariani (AEGL) line																																	CSD 0800Hrs to 1600Hrs	To carry out stringing work for anchor tower	Construction Related Shutdown	SD may be availed. Flowgate of Upper Assam to be maintained below 230 MW during the SD period. N-1 considered 220 kV AGBPP - Mariani (AS) line. Consent from SLDC Assam to be taken.
29	220kV New Mariani - Mokokchung - 2 TL																																	0800Hrs to 1600Hrs	for jumper lightning works	Normal Maintenance related shutdown.	SD may be availed subject to availability of 220 kV New Mariani - Mokokchung 1 TL.
30	220kV Misa - Samaguri - 2																																	0800Hrs to 1600Hrs	AMP of Bay Equipments	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 220kV Misa - Samaguri-1, 220 kV Balipara- Sonab-Samaguri link and 220 kV Azara - Saraniajia DC. Generation from Langpi is to be maximised during the SD period.
31	A/R of 220 KV Misa - Dimapur-1 TL																																	0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode

Sl. No.	A/R of 220 KV Misa - Dimapur -2 TL	Mar-23																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					Category
32	A/R of 220 KV Misa - Dimapur -2 TL	[Red]																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
33	A/R of 220KV Misa-Kopili #1	[Red]																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
34	A/R of 220KV Misa-Kopili #2	[Red]																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
400kV Transmission lines		[Green]																																		
35	400 KV Balipara - Misa-1 TL	[Red]																															0800Hrs to 1600Hrs	Shut down required for OPGW installation at river crossing due to very long span	Existing system improvement related shutdown.	SD may be deferred until 220 LV BTPS-Salakati D/C are in service.
36	400 KV Balipara - Misa-2 TL	[Red]																															0800Hrs to 1600Hrs	Shut down required for OPGW installation at river crossing due to very long span	Existing system improvement related shutdown.	SD may be deferred until 220 LV BTPS-Salakati D/C are in service.
37	400kV Bongaigaon Balipara # 3 along with LR	[Red]																															0800Hrs to 1600Hrs	Modification on OTI/WTL PRV circuit to prevent maloperation of the equipment	Existing system improvement related shutdown.	SD may be availed subject the availability of 400 kV Bongaigaon Balipara I, II and IV
38	400kV Misa - New Mariani - 1 TL	[Red]																															0800Hrs to 1600Hrs	Insulator replacement works at critical locations	Normal Maintenance related shutdown.	SD may be availed. 400 kV Misa - New Mariani II to be kept in service.
39	400kV Silchar_Imphal 1 & 2 TL	[Red]																															CSD 0900Hrs to 1700Hrs	for Shifting of DE Tower, Erection of Gantry & Commissioning of Line Reactors along with it's bays under NERSS-XI.	Construction Related Shutdown	Considering N-2 contingency; outage of both circuits of 400 kV Imphal - New Kohima D/C Under the above scenario, power can be imported by Manipur Power System via these interconnections: 132 kV Imphal - Dimaapur line 132 kV Karong - Kohima line The maximum power that can be drawn by the above two connections is (50 + 50) = 100 MW. The above restriction is due to restriction in 132 kV Karong - Kohima line within 50 MW and low voltage of 121 kV at terminal stations. Therefore, load restriction has to be taken by Manipur Power System
40	A/R of 400 KV Misa - Balipara -1 TL	[Red]																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
41	A/R of 400 KV Misa - Balipara -2 TL	[Red]																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
42	A/R of 400kV New Mariani - Misa - 1 TL	[Red]																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
43	A/R of 400kV New Mariani - Misa - 2 TL	[Red]																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
44	A/R of 400kV Balipara - Bongaigaon # 1 TL	[Red]																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
45	A/R of 400kV Balipara - Bongaigaon # 2 TL	[Red]																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
46	A/R of 400kV D/C Silchar-Palatana	[Red]																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
47	A/R of 400kV Silchar-Bymihat TL	[Red]																															0700Hrs to 1800Hrs	Auto reclosure to be kept at non auto mode for OPGW works	Existing system improvement related shutdown.	A/R may be kept in Non-Auto Mode
220kV Dimapur SS		[Green]																																		
48	220/132kV, 100MVA ICT-3 at Dimapur	[Red]																															CSD 0800Hrs to 1600Hrs	Replacement of Bushing CT Terminal Plate	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 220/132kV ICT II and I at Dimapur.
49	132kV Bus Coupler - 1 at Dimapur 132kV Main Bus - 1 at Dimapur 132kV Dimapur - Kohima TL 132kV Dimapur - Dimapur 2 TL	[Red]																															0800Hrs to 1600Hrs	SF6 gas filling in Main Bus-I, for Latent Defect identification noted in Current imbalance.	Normal Maintenance related shutdown.	SD may be availed. 132 kV Dimapur - Dimapur I Line to be kept in service. As the Main Bus I at Dimapur will be under shutdown, all the remaining elements are to be kept in Main II Bus. Consent from SLDC Nagaland to be obtained.
132 kV Badarpur SS		[Red]																																		
50	132kV Main Bus at Badarpur	[Red]																															0800Hrs to 1600Hrs	AMP of Bus	Normal Maintenance related shutdown.	At present, due to low generation at Meghalaya power system and outage of 132 Khandong-Kopili link, 132 kV Hatlong-Jiribam line and 132 kV Lotak-Jiribam line, the Meghalaya power system is not N-1 compliant. The SD may only be availed after restoration of Khandong-Kopili link and/or other above lines under outage.
51	132kV Transfer Bus Coupler bay at Badarpur	[Red]																															0800Hrs to 1600Hrs	AMP of Bay Equipments	Normal Maintenance related shutdown.	SD may be availed.
132kV Melriat SS		[Red]																																		
52	15MVAR Bus Reactor at Melriat	[Red]																															1000Hrs to 1600Hrs	Modification on OTI/WTL PRV circuit to prevent maloperation of the equipment	Existing system improvement related shutdown.	SD may be availed. About 1-2 kV change in voltage at Melriat Bus is observed.
220kV Mokokchung SS		[Red]																																		
53	220kV Bus Coupler at Mokokchung	[Red]																															0800Hrs to 1600Hrs	AMP of Bay Equipments	Normal Maintenance related shutdown.	SD may be availed provided no outage of elements.
54	220/132kV 30MVA ICT - 1 at Mokokchung	[Red]																															0800Hrs to 1600Hrs	AMP of ICT	Normal Maintenance related shutdown.	SD may be availed. Other 2 ICTs to be in service. Consent from SLDC Nagaland is to be taken.
55	220/132kV 30MVA ICT - 2 at Mokokchung	[Red]																															0800Hrs to 1600Hrs	Modification on OTI/WTL PRV circuit to prevent maloperation of the equipment	Existing system improvement related shutdown.	SD may be availed. Other 2 ICTs to be in service. Consent from SLDC Nagaland is to be taken.
56	220/132kV 30MVA ICT - 3 at Mokokchung	[Red]																															0800Hrs to 1600Hrs	Modification on OTI/WTL PRV circuit to prevent maloperation of the equipment	Existing system improvement related shutdown.	SD may be availed. Other 2 ICTs to be in service. Consent from SLDC Nagaland is to be taken.
220kV Salakati SS		[Green]																																		
57	220/132kV ICT - 2 Main bay (HV side) at Salakati	[Red]																															0700Hrs to 1600Hrs	AMP of Bay Equipments	Normal Maintenance related shutdown.	SD may be availed provided no outage of ICT-2
58	220/132kV ICT - 2 Main bay (LV side) at Salakati	[Red]																															0700Hrs to 1600Hrs	AMP of Bay Equipments	Normal Maintenance related shutdown.	SD may be availed provided no outage of ICT-2
400kV Silchar SS		[Red]																																		
59	400kV 63MVAR Bus Reactor-1 at Silchar	[Red]																															0900Hrs to 1500Hrs	Modification on OTI/WTL PRV circuit to prevent maloperation of the equipment	Existing system improvement related shutdown.	SD may be availed. About 2 kV voltage change is observed in Silchar S/s

Mumbai Urja Marg Limited
(Erstwhile Vapi II-North Lakhimpur Transmission Ltd.)
 Project Office: House No. 95, 2nd Floor, C. D. Road, Ward No- 4,
 North Lakhimpur, Assam- 787001



MUML/Part D/2023-24/165

Date: 06th Feb 2023

To,

The Chief General Manager (E/M) & HoP
 Pare HEP, NEEPCO Ltd.
 Doimukh, Papumpare District.
 Arunachal Pradesh, PIN: 791112.

Sub: Construction of 132 KV D/C Pare HEP to North Lakhimpur Transmission line & LILO of one circuit at Nirjuli along with bypassing of Ranganadi-Naharlagun/Nirjuli line and reconductoring of NEEPCO LILO line: **Requirement of Shutdown for completion of scope leading to Early commissioning of the asset.**

Dear Sir,

1. With reference to the subject cited above MUML would like to inform you that construction of the subject elements of transmission project is going on in full swing. As of now MUML have completed about 90% of construction work of 132 KV D/C Pare HEP - North Lakhimpur line and about 60% of Nirjuli LILO line. MUML has mobilized sufficient resources including B3 helicopter for material transportation.
2. As per para 1, with deployment of sufficient resources MUML is expecting to complete its scope and be ready for commissioning by mid-April'2023. The Scheduled Commercial Operation date ("SCOD") of the elements as per TSA is June' 23. MUML has expedited the construction works considering early monsoon in this area and to ensure required transmission path availability during peak hydro power generation season. This transmission system was identified for strengthening the system associated with Pare HEP, as a part of NERSS-IX scheme, and the scheme has been awarded in the 17th TCC/NERPC meeting held on 04.10.2016 and 37th Empowered Committee Meeting on Transmission held on 20.09.2017. The need of the transmission system was to decongest the overloading observed in the region from evacuation of power from Pare HEP. So, completion of the same before peak hydro generation is more essentially required by the grid for better reliability.
3. Furthermore, a complete shutdown of your LILO portion along with Ranganadi-Naharlagun/Nirjuli line shall be required for about 15 days to complete the reconductoring at LILO Portion. It is understood from past experiences and with discussion with your good office that it would be difficult to provide the shutdown during peak hydro generation months. MUML is proposing doe 15 days shutdown w.e.f 25.03.2023 to 10.04.2023 to complete the works of reconductoring of LILO portion, dismantling and re-erection of 2 Nos. of existing towers as well as bypassing of Ranganadi-Naharlagun/Nirjuli Line.
4. If the aforementioned proposed shutdown is not provided, then due to peak generation period this shutdown can get shifted to a date beyond SCOD of the project and that will lead to another scenario in which the existing lines will operate in overloading conditions and the system constructed for decongestion will stand on the ground unused.

Mumbai Urja Marg Limited
(Erstwhile Vapi II-North Lakhimpur Transmission Ltd.)
Project Office: House No. 95, 2nd Floor, C. D. Road, Ward No- 4,
North Lakhimpur, Assam- 787001



5. In view of the above, MUML again requests you to provide the shutdown of the aforementioned lines w.e.f. 25.03.2023 to 10.04.2023 to complete the works defined under the scope of the project. Prior approval for commissioning before SCOD would be sought from the LTTC's of the project informing the conditions as described in Para 2, 3 & 4 above.
6. It is kindly request to your good office to extend support in matter of presenting the case of early commissioning in front of all LTTC's, RPC and NERLDC which will benefit power evacuation from Pare HEP and shall improve overloading of the transmission network in this area leading to better reliability of the grid, which is of prime importance.

Assuring best of our services.

Thanking you.

For Mumbai Urja Marg Limited

A handwritten signature in blue ink, appearing to read "Narottam".

06/02/2023.
Narottam Chakraborty

Project Head – MUML

Mobile: +91 7896022335

Email: narottam.chakraborty@sterlite.com



Assam Electricity Grid Corporation Limited
 Regd. Office: 1st Floor, Bijulee Bhawan, Paltanbazar, Guwahati-781001
 CIN:U40101AS2003SGC007238
 Phone-0361-2739520 / Fax-0361-2739513 Web: www.aegcl.co.in



No.: AEGCL/CGM/SLDC/T-132/22/172

Dated: 30/01/2023

To,

The Senior General Manager
 NERLDC
 Lower NONGRAH, LAPALANG,
 Shillong, Meghalaya 793006

Sub: Separate Gateways for telemetering of two new Sterlite bays at North Lakhimpur GSS

Ref: Minutes of the meeting dated 25th Jan, 2023

Sir,

With reference to the subject cited above, this is to bring into your kind notice that two new Sterlite bays is going to be commissioned at 132kV North Lakhimpur GSS. Regarding this, a meeting was organized on 25th Jan, 2023 at Bijulee Bhawan, Paltanbazar, Guwahati where both the officials from Assam Electricity Grid Corporation Limited and Sterlite were present (MOM attached). In that meeting, AEGCL officials proposed to install a new gateway for establishing telemetry of the two new Sterlite bays at 132kV North Lamkhimpur GSS. However, Sterlite suggested to establish telemetry using the existing AEGCL gateway. But, as per AEGCL officials, implementing new gateway will reduce the chance of hampering the acquisition of data from the two new Sterlite bays even if the existing AEGCL gateway gets down. It is also to mention herewith that being ISTS lines the real time data of those Sterlite bays are very important for grid operation. Also, there are other examples of implementing separate gateways like at Srikona GSS, – one for AEGCL bays and another for Power Grid bays, separate gateways has been used. Similarly, for NTPS, LTPS also multiple gateways are there.

Hence, you are requested to provide your opinion regarding using dedicated gateway for Sterlite bays at 132kV North Lakhimpur GSS.

Encl: As Above

Yours Faithfully,

Chief General Manager, SLDC,
 AEGCL, Kahilipara, Guwahati – 19

Memo No. AEGCL/CGM/SLDC/T-132/22/172(a-f)

Dated: 30/01/2023

Copy to:

1. The P.S. to the MD, AEGCL, Bijulee Bhawan, Paltanbazar, Guwahati for kind information to the Hon'ble MD, AEGCL
2. The CGM (PP&D), AEGCL, Bijulee Bhawan, Paltanbazar, Guwahati for his kind information.
3. The CGM(O&M), UAR, AEGCL, Bijulee Bhawan, Paltanbazar, Ghy for kind information
4. The Sterlite Representative for kind information
5. The CEA, 36, Sector 5, Rama Krishna Puram, New Delhi, Delhi 110066 for kind information.
6. Office Copy

Chief General Manager, SLDC,
 AEGCL, Kahilipara, Guwahati-19

Minutes of meeting between representatives of M/S AEGCL and M/S Mumbai Urja Marg Limited, MUML (Sterlite Power), Dtd.- 25/01/2023 at the office chamber of MD, AEGCL, Bijulee Bhawan.

Points of discussion:

1. In the meeting M/S AEGCL requested M/S MUML for installation of a separate dedicated gateway for the new 2 No of bays of Sterlite Power at North Lakhimpur GSS.
2. M/S MUML requested AEGCL for configuration of the 2 new bays (Sterlite Power) in the existing gateway of AEGCL.
3. M/S AEGCL expressed their concerns regarding any penalty that might be imposed now or in the future as per applicable statutory norms on AEGCL due to unavailability of the gate-way and subsequent downtime in telemetry of data of these two new bays considering that these two new bays are for the Pare HEP (NEEPCO)-North Lakhimpur (AEGCL) 132KV D/C line which is an ISTS line.
4. In regards to the above laid down points it was decided that M/S AEGCL will issue a letter to NERLDC within 3 working days with a copy to MUML (Sterlite Power) and CEA seeking clarification for the above-mentioned points that, " AEGCL asked to put dedicated Gate way for 2 nos. 132kV line bays of MUML at North Lakhimpur substation & this Gate way will be dedicated & separate gateway from the present gateway of the AEGCL at North Lakhimpur GSS."
5. The O&M agreement will be signed between AEGCL & MUML (Sterlite Power) after clarification of the above-mentioned points. However, if there is any other points on O&M agreement submitted by MUML to AEGCL, AEGCL shall share their observation at the earliest.

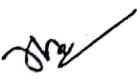
For AEGCL

For Sterlite Power


Sandip Moity

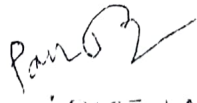


Narottam Chakraborty
AVP & Project Head-MUML


T. Baruah
CGM(O&M), UAR & Safety
O/o the M.D., AEGCL


ASHUTOSH BHATTACHARJEE
DEPUTY GENERAL MANAGER (SYSTEM LOGISTICS)
O/O THE CGM, SLDC, AEGCL KAHILIPARA, GHY-19


Raj Sharma
DGM (O&M), UAR
O/o the MD, AEGCL


(PARTHA SAIKIA)
CHIEF MANAGER
PROJECTS



केन्द्रीय विद्युत अनुसंधान संस्थान

(भारत सरकार की सोसाइटी, विद्युता मंत्रालय)

प्रो.सर.सी.वी. रामन रोड, सदाशिवनगर डाक घर, पो.बा.सं. 8066, बेंगलूरु - 560 080

CENTRAL POWER RESEARCH INSTITUTE

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Prof. Sir C.V. Raman Road, Sadashivanagar Post Office, P.B. No. 8066, Bengaluru - 560 080 India

वेब सइट / website :<http://www.cpri.in>



No. 2/9/PSD/2023/

Date : 6.1.2023.

The Member Secretary,
North Eastern Regional Power Committee (NERPC),
NERPC Complex, 3rd Floor,
Dong Parmaw, Lapalang,
Shillong -793006
Meghalaya

FAX No. 0364-2534040

Dear Sir,

Subject : Power System Studies and Third Party Protection Audit.

Wish You Happy and Prosperous New Year 2023

Introducing ourselves, Central Power Research Institute (CPRI) is an autonomous body working under the Ministry of Power (Govt. of India). CPRI is serving the Indian power industry for the more than last six decades. With its state-of-the art infrastructure and expertise, CPRI has made significant contributions to the power sector in the country for improved planning, operation and control of power systems. Besides in-house Research, we also undertake sponsored research & consulting projects from utilities, manufacturers and other agencies in different areas of power sector.

In the field of Power System, we offer expert consultancy services in the areas of transmission, distribution and generation. These services consists of power systems planning, power evacuation, review of power systems protection, power quality, islanding, reactive power management and protection audit studies. We are equipped with international standard softwares like PSS/E (Power System Simulation for Engineering) from M/s Siemens, NEPLAN from ABB, DSA tools from Powertech, Digsilent Power factory from Simulation technologies, ETAP from ETAP automation, EMTP (Electromagnetic Transients Program) SIMPOW (simulation of Power systems) from STRI etc. and experts in the relevant field for carrying out these complex power system studies.

As per the recommendation of the task force on power system analysis under contingencies, August 2013, the periodic protection audit is one of the key aspect for a healthy and reliable

operation of protection. Since the grid failure in 2012, CPRI has been regularly carrying out the third party protection audit of generating stations and substations.

CPRI has carried out the third party Protection audit for generating power plants and substation for govt. and private power utilities like M/s PGCIL, M/s UPPTCL, M/s BBMB, M/s NTPC Ltd., M/s NHPC, M/s RRVPNL, M/s Adani Electricity India, M/s Anpara Thermal Power plant substations. In last 9 years, CPRI has successfully completed the third party audit for more than 500 substations and generating stations. The brief Scope of Third Party Protection audit is to review the implemented protection schemes/philosophy & settings for power houses & substations as per latest guidelines of regional power committees.

The Power Systems Division has also been playing a vital role in applied research & power systems studies. Major consultancy services offered for power utilities and industry are Power system studies like Power System Planning studies, Load Flow studies, Short Circuit studies, Transient stability, dynamic stability & voltage stability studies, Sub-synchronous resonance (SSR) studies, HVDC transmission system studies, Insulation co-ordination studies, Fixed and dynamic reactive power compensation studies, Grid Integration studies of Renewables – Wind & Solar, Islanding studies, Harmonic analysis and Filter Design studies. CPRI being a non- profit organization under ministry of power our services/reports are always without any bias/conflict of interest.

In the above backdrop and experience & expertise CPRI possesses, we are interested and eager to take up Power System Studies and Third Party Protection Audit of utilities under jurisdiction of NERPC.

We earnestly request yourself to initiate/facilitate Power System Studies and Third Party Protection Audit of utilities under jurisdiction of NERPC through CPRI.

Thanking You,

Yours faithfully,



(Asit Singh)

Director General