सत्यमेव जयते

Agenda for 203rd OCCM

Azadi Ka Amrit Mahotsav

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

North Eastern Regional Power Committee

Agenda for the

203rd Operation Coordination Sub-Committee Meeting

Time of meeting : 10:30 Hrs.

Date of meeting : 15-06-2023 (Thursday)

Venue : "Hotel Royale de' Casa, Guwahati"

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 201st MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 202nd meeting of Operation Sub-Committee held on 18th May 2023 at Hotel Soolin Grand, Guwahati was circulated vide letter No. NERPC/SE (O)/OCC/2021/987-1025 dt. 02/06/2023

No comment(s)/observation(s) were received from the constituents.

The Sub-committee may confirm the minutes of 202nd OCCM of NERPC

B. FOLLOW UP AGENDA ITEMS

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

NERLDC to present the Operational Performance and Grid Discipline for the month of May, 2023.

Sub-committee may deliberate

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 24/04/2023)	MU content	Present DC (In MU)	No of days as per current generation
Khandong + Kopilistg 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	**306.55**	**1**	**0.05**	**20**
Loktak	**766.52**	**13**	**0.21**	**62**

b. The outage of other generating stations may be approved considering the present water levels in reservoirs and long-term outage of Kopili and Khandong HEPs.

Sub-committee may deliberate

B.3. Outage Planning Transmission elements

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

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

It was decided in the previous OCCM that shutdown would be granted from the 1st day of the following calendar month to the 30th / 31st day of the same month.

B.4. Estimated Transmission Availability Certificate (TAC) for the month of April, 2023:

Transmission Utilities have submitted the outage data for the month of April, 2023. The attributability of outage of the said elements is being been finalized by NERLDC and NERPC.

Sub-committee may deliberate

B.5. Mock Black Start Exercise:

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.

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

Status as updated in 202nd OCCM

Plant Name	Last testing date	Due date	Schedule of Testing as per 202nd OCCM
AGBPP	……	……	after upgradation of DG under R&M*
AGTTCCPP	04.02.2023	04.08.2023	04.08.2023
RHEP	28.11.2022	28.05.2023	28.05.2023
Pare HEP	15.02.2023	15.08.2023	15.08.2023
Kopili HEP	10.05.2019	Under prolonged shutdown	Under prolonged shutdown
Khandong HEP	09.12.2021	Under prolonged shutdown	Under prolonged shutdown
DHEP	21.10.2022	21.04.2023	Done on 12th May 2023
Kameng HEP	……	……	**
Loktak HEP	16.12.2021	20.06.2022	NHPC will confirm the dates once the water level improves

*Regarding AGBPP, GM, NEEPCO updated that R&M of the plant has been approved and procurement process will start soon.

**Regarding Kameng HEP, Sr. GM NERLDC intimated the forum that as per a study on feasibility of Mock black start exercise on Kameng Machine the MVAR required to be absorbed by the machine for idle charging of 400kV Balipara-Kameng single circuit is 34 MVAR while the corresponding capability of the machine, as per the capability curve, is 67MVAR. So, the machine is capable for the exercise. GM, NEEPCO requested Member Secretary NERPC to write a letter to the OEM, M/s BHEL to expedite the process.

The sub-committee may deliberate

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 two substations while yet to be enabled for other three substations

As updated in previous OCC meetings:

DGM, SLDC, TSECL stated that shifting works at the Takerjhala, Bishalgarh and Badarpur substations is completed, however, some issue related to handing over etc remain to be settled. He further informed that ADMS is expected to be installed by August'23.

ED, NERLDC clarified that a report has to be generated at every SLDC when ADMS tripping condition is satisfied, irrespective of tripping of the feeders. The same has to be then submitted to NERPC/NERLDC.

NERLDC informed that Assam, Meghalaya and Mizoram send ADMS reports on event basis. SLDC Nagaland mentioned that reports are being sent on monthly basis. NERLDC clarified that reports regarding ADMS operation must be sent for each event basis apart from monthly reports.

Further, NERLDC mentioned that during the low frequency event on 15-05-2023 when all India grid frequency touched 49.40 Hz, ADMS operation was expected only from Tripura as among all states of NER only Tripura was overdrawing during the aforementioned event. But as the ADMS is not fully operational in Tripura, the same did not operate. SLDC Tripura mentioned that implementation of ADMS is underway in the state.

The sub-committee may deliberate

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

At present NERLDC is reporting 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 – Umiam1	132 kV Umiam-Umiam Umiam 1 II	340	10	330
	Peak			260	10	250
Mizoram	Off-Peak	132 kV Melriat-Silchar I (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.

In 202nd OCCM, NERLDC highlighted that the state-wise TTC/ATC report has not been submitted by Arunachal Pradesh, Manipur and Nagaland for the Month of April'23. Further, NERLDC informed that Arunachal Pradesh has not sent the TTC/ATC report since beginning. Forum suggested Arunachal Pradesh to consult NERLDC and start sending the said reports at the earliest.

Sub-committee may deliberate

B.8. Issues pertaining to Kopili, Khandong and Meghalaya power system.

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

Khandong & Kopili Power Stations have been under forced outage due to which there has been vulnerabilities in the Meghalaya Power system. The following lines are critical for removing the vulnerabilities-

- Restoration of Misa-Kopili-Khandong link
- Reconductoring of 132kV Lumshnong-Panchgram line
- Commissioning of 220kV Mawngap-Killing line

Status may be updated

B. Restoration works at Khandong and Kopili substations

Efforts are being taken to restore the following lines on permanent basis-

- 132kV Kopili-Khandong D/C
- 220kV Misa-Kopili line
- 220/132kV ICTs at Kopili SS
- 132kV Khandong Bus B
- 132kV Khandong-Khleihriat Ckt 1 bay at Khandong

It is to be noted that 132kV Khandong-Khleihriat Ckt 1 has been charged through Kopili 2 bay at Khandong till permanent restoration of 132kV Kopili-Khandong D/C line is done.

Status may be updated

C. Recommissioning of 4X50 MW Kopili Stage-I plant (2 units)

NEEPCO is planning to re-commission and synchronize two units of Kopili (4x50MW) by July'23, for evacuation of which, either 220kV Misa-Kopili line or Kopili-Khandong D/C is required.

In previous OCC meetings following points were discussed

i) Regarding Mawngap-Killing line, NERPSIP intimated that there is some development in resolution of RoW issue at Nongpoh and erection work will be done in 1st week of June, 2023. Further, the line will be tentatively charged by 1st week of July, 2023.

ii) Regarding restoration of 132kV Khandong-Khleihriat ckt 1 bay at khandong, GM, NEEPCO updated that the restoration of bay of 132kV Khandong-Khleihriat Ckt 1 will take longer time (more than 1 year). Regarding restoration of Ckt 1, DGM, NERTS proposed to charge the ckt through Kopili 2 bay at Khandong substation till the permanent restoration of 132kV Kopili-Khandong D/C line is done. Forum noted that this shall improve reliability of the corridor and supply of power to Meghalaya and thus the proposal was approved till readiness of Khleihriat-1 bay at Khandong.

iii) Regarding restoration status of 132kV Kopili-Khandong D/C, DGM, NERTS updated that GIS works are underway at Kopili and SAS based panels for the lines are under procurement. He stated that the line will tentatively be charged by September 2023. He further proposed that after restoration of the Kopili-Khandong D/C, the Khliehriat Khandong ckt 1, which would have been charged through Kopili 2 bay at Khandong till then, may be connected directly to Kopili-Khandong ckt 2 through a bypass arrangement at Khandong S/Y using Transfer Bus, thus making a direct Kopili-Khliehriat link. The arrangement will work till the bay restoration work at Khandong is completed by NEEPCO. NERTS opined that this arrangement will not only avoid keeping the Khliehriat-Khandong ckt 1 idle, but also provide necessary redundancy to the Meghalaya Grid.

iv) Regarding restoration of Khandong Bus B, GM, NEEPCO apprised that the restoration will take a longer time frame (more than one year) as tender has not yet been finalized. He also highlighted that till the restoration of Bus B, the whole

Khandong substation will be working with singe bus only, thus redundancy at khandong station will remain compromised.

v)NERLDC and SLDC Meghalaya reiterated that Misa-Kopili-Khandong link must necessarily be revived before the onset of next winter season in Meghalaya to cater safely to the peak demand of Meghalaya.

The sub-committee may deliberate

B.9. Implementation of Guwahati Islanding Scheme:

As per Clause 10 of the Central Electricity Authority (Grid Standards), Regulations, 2010: "Islanding Schemes- (1) The Regional Power Committees shall prepare Islanding schemes for separation of systems with a view to save healthy system from total collapse in case of grid disturbance. (2) The Entities shall ensure proper implementation of the Islanding Schemes"

Pursuant to the above regulation, NERPC through an empowered committee, has finalized the Guwahati Islanding scheme and prepared the DPR. The DPR was presented in 23rd NERPC/TCC meeting to get approval for funding through PSDF.

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.

In the 199th OCCM, 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.

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 udated in the NeTEST meetings.

In the 200th OCCM, Director, NERPC stated that in the 24thNETeST meeting, Assam has informed that there are no OPGW links on existing lines covered under the proposed Guwahati Islanding Scheme.

It was suggested in the meeting that AEGCL may apply for PSDF funding under Reliable communication scheme state sector for installing OPGW and include these lines which are covered in the proposed Islanding scheme.

In 201st OCCM, Director, NERPC apprised the forum that an online meeting was organized to discuss the ways and means to reduce the cost of the proposed scheme. To further resolve the issues, an offline meeting will be organized with the concerned stakeholders soon.

In 202nd OCCM, MS, NERPC informed that physical meeting for Implementation of Guwahati Islanding Scheme will be conducted in the 2nd week of June 2023.NERPC and NERLDC to coordinate with the same.

The sub-committee may deliberate

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

Status as updated in 202nd OCCM-

Name of the state/utility	Submission of revised UFR list	Installation of UFRs and Implementation of revised settings	Status of mapping
Ar. Pradesh	Submitted	Stg-1 (49.4Hz) implementation in new feeders. UFRs have been procured and the same have reached the site. Installation to be completed by June'23	Coordination with M/S GE is ongoing. Shifting works underway. Mapping to be done after the work
Assam	Submitted	Installation Completed.	Done. NERLDC intimated that 132 kV Azara – Mirza line has been mapped in UFR SCADA display by

			Assam in place of 33kV Mirza feeder at Azara sub-station.
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. NERLDC informed that the feeder load data (MW) and CB status data of Stage-1 UFR is suspect in Meghalaya UFR SCADA display
Mizoram	submitted	Completed	SCADA display has been made at SLDC but real time data is not reporting as no communication link is available for most of the substations where UFRs are installed. The SCADA display is to be shared with NERLDC.
Nagaland	Submitted	Completed, time delay(30sec) in tripping logic has to be removed	Completed
Tripura	Submitted	Stage-1(49.4Hz), Stage-2 (49.2Hz), Stage-3(49Hz) require installation of UFR. Stg I UFR installed but physical verification is yet to be done.	Mapping by May'23 for P K Bari and Ambassa. For Badarghat(33kV SS), mapping not possible as no RTU available

In previous OCC meetings, SLDC Mizoram intimated that visibility of most of the UFR enabled feeders is not available in SLDC SCADA as no RTUs are available at 33kV substations. The forum requested Mizoram to ensure the visibility of UFR enabled feeders connected at 132kV substations, which have RTUs and communication link, in the SCADA at SDLC. Mizoram agreed.

NERPC requested all the state utilities to send monthly UFR reports to NERPC and NERLDC in compliance with IEGC regulations.

Member Secretary NERPC exhorted the States to avail PSDF funding for establishing communication links for 66kV and above substations.

NERPC suggested that in line with regulation 5.2.n of the IEGC 2010, inspection of UFR of the states should be carried out at the earliest in order to ensure functionality of the same. Further he suggested that UFR inspection may be clubbed with Protection Audits to save time.

Further, NERLDC mentioned that Assam, Nagaland and Meghalaya are providing UFR report on monthly basis. Rest of the states are required to submit as per IEGC. The forum suggested that all SLDCs must send monthly and event basis UFR operation reports to NERLDC and NERPC.

The forum also requested Assam and Meghalaya to correct the UFR SCADA display issues at the earliest.

The sub-committee may deliberate

B.10(B) Operation of ADMS/UFR in North-Eastern region during very low frequency at 11:52 hrs of 15th May 2023 (NERLDC)

On 15th May 2023 at 11:51 hrs., generation loss of 7120MW was experienced in Rajasthan RE generation complex. This led to the frequency drop from 49.98 Hz to 49.40 Hz (Nadir Frequency) i.e a change of 0.581 Hz in around 9 seconds. During the said contingency, AUFLS (Flat Under Frequency Relay Stage-I and df/dt relays) have acted. The frequency recovered to 49.742 Hz after 23.560 seconds due to the combined automatic corrective actions viz. primary frequency response of generators and load shedding by Automatic Under Frequency Relays). Total quantum of region wise load relief obtained due to operation of AUFLS Stage-I and df/dt as reported by state/SLDC

was around 4529MW (NR-1635MW, WR-1734MW, SR-911MW, ER-192MW, NER-57MW).

It is observed that actual load relief obtained (4529MW) was much less than the relief expected as per design quantum of AUFLS stg.1, which is 8988MW. It seems that feeders identified by the states / SLDCs for load shedding through flat AUFLS as well as df/dt actuated, need to be reviewed periodically for changes in connected demand and their seasonality/voltage dependence/frequency dependence and other factors. Periodic verification of healthiness and adequacy of df/dt and AUFLS scheme is very important for grid security.

As already decided in RPC forums, SLDCs need to monitor the feeders identified for providing load relief through AUFLS / df/dt in their respective SCADA systems and make the same data available to concerned RLDCs. Accordingly, SLDCs may be advised to take necessary corrective actions in case the average demand of any such identified feeder falls short of the quantum that was planned to be included within the scope of AUFLS and / or df/dt in the AUFLS scheme of the respective state. This may be taken up as a regular agenda by concerned RPCs in their monthly OCC meetings.

In 202nd OCCM, the forum observed non-operation of UFR in 5 out of 7 states and inquired about the reason for the same. *NERLDC apprised that expected load shedding under Stg 1 for NER region is 170MW, while actual load shedding was 57 MW only.*

Ar. Pradesh- UFR for stg.1 not yet installed

Manipur- no representative

Mizoram – UFR not operated. Will be checked by Mizoram

Nagaland- NERLDC apprised the forum that in the tripping logic of UFR, time delay of 30 second has been inserted. DoP Nagaland assured to remove the delay at the earliest

Tripura – Stg1 UFR has been installed but not yet operational. All other stages UFRs are yet to be installed.

After detailed deliberation, the forum requested the states to ensure functionality of UFR stg1 at the earliest and correct mapping of the feeders under the UFR.

UFR settings and quantum of shedding as decided in the 9th NPC meeting are as follow:

AUFLS	Frequency (Hz)	Load relief in MW					
		NR	WR	SR	ER	NER	Total
Stage-I	**49.4**	3900	3340	3150	1370	170	11930
Stage-II	**49.2**	3920	3360	3170	1380	170	12000
Stage-III	**49.0**	3950	3380	3190	1380	170	12070
Stage-IV	**48.8**	3970	3400	3210	1390	170	12140
Total (MW)		**15740**	**13480**	**12720**	**5520**	**680**	**48140**

The sub-committee may deliberate

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 Clauseno.5.2(g) of Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010.

Schedule as agreed in the 202nd OCC meeting:

Region	Station	No. of Generators	Suggested Schedule		Duration (days)
			Test Start	Test End	
NER	OTPCL-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)**

Regarding PFR testing at Palatana, OTPC intimated that the additional software logic block has been discussed with the NERLDC and logics have been finalized. The same will be discussed with NLDC and will be inserted in the machine controller during shutdown of individual machines after consent of NLDC is obtained. The PFR test will be conducted via the aforementioned in-built software logic blocks in the control system. OTPC informed that test will be conducted tentatively in June'23 and July'23 for Unit-1 and Unit-2 respectively after completion installation of software logic block during shutdown of the said units.

Regarding PFR testing at Doyang HEP, GM, NEEPCO intimated that the testing will be done once the available water level becomes sufficient.

The sub-committee may deliberate

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 ClNo.23(2), (3) & (4) of CEA Grid Standards Regulation,2010on 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 202nd OCCM, NERLDC informed that most of the States are regularly submitting the Patrolling report. However, few States like Arunachal Pradesh, Manipur and Mizoram are still not following the same. MS, NERPC strongly advised all SLDCs to seriously take-up the matter of regular line patrolling with their respective state utilities and submit the patrolling reports to NERLDC/NERPC on regular basis.

The sub-committee may deliberate

B.13. Monthly Review of LGBR

PARTICULARS (Peak Demand in MW as per LGBR vs Actual)	Mar-23 (LGBR)	Mar-23 (Actual)	Apr-23 (LGBR)	Apr-23 (Actual)	May-23 (LGBR)	May-23 (Actual)
Arunachal Pradesh	153.31	172	153.93	154.980	153.24	165.000
Assam	1680.00	1670.32	1885.80	2013.100	2210.38	2219.000
Manipur	227.00	212.32	208.06	212.700	208.82	193.000
Meghalaya	354.00	373.99	366.18	335.859	353.29	353.000
Mizoram	119.27	128.82	122.72	126.870	121.68	122.000
Nagaland	155.00	156.4	147.66	150.100	153.70	150.000
Tripura (exc. Bangladesh)	250.00	263.9	322.32	337.500	315.12	345.000
NER DEMAND (exc. Bangladesh)	2686.32	2915	3073.35	3332	3271.14	3477

PARTICULARS (Energy Requirement in MU as per LGBR vs Actual)	Mar-23 (LGBR)	Mar-23 (Actual)	Apr-23 (LGBR)	Apr-23 (Actual)	May-23 (LGBR)	May-23 (Actual)
Arunachal Pradesh	71.99	77.54	71.30	74.28	79.10	77.13
Assam	862.52	837.76	813.63	913.960	1007.00	1028.950
Manipur	79.03	81.08	77.94	75.32	76.99	71.42
Meghalaya	191.76	193.22	175.14	192.69	178.75	194.55
Mizoram	55.48	53.45	53.42	49.06	55.90	50.97

Nagaland	66.11	70.54	70.83	65.83	77.28	75.45
Tripura (excl. Bangladesh)	118.05	122.97	151.41	149.91	147.37	163.74
NER DEMAND (exc. Bangladesh)	1473.94	1437.192	1413.67	1521.775	1622.39	1662.77

The sub-committee may deliberate

B.14. 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 202nd OCCM, regarding tripping condition 1, AEGCL updated that BOQ has been prepared regarding procurement of communication equipment at Kahilipara. The same has been put up for administrative approval. AEGCL further updated that hard wiring at substations will be done by the end of June'23.

Regarding tripping condition 2, AEGCL updated that the SPS has been commissioned at Samaguri substation on 10th May'23 (load disconnection of 50MW). However, the DT reception logic (DT signal to be sent from Misa end) has not yet been incorporated in the SPS. DGM, NERTS intimated that DT sent logic has been finalized at Misa end but no spare PLCC code is available at Samaguri end. He, therefore, requested AEGCL to free up code 3 or code 4 in order to receive the DT signal from Misa to Samaguri. AEGCL assured to do the work at the earliest.

Sub-committee may deliberate

B.15. 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-Tuesang-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 19MW and generation loss of 8MW making it a critical situation.

Forming closed loop connection of Kohima-Meluri-Kiphire-Tuesang-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-Tuesang-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 200th OCCM, DoP Nagaland updated that proposal for installation of Bus Reactor will be proposed for PSDF funding and for upgradation of bay equipment at Mokokchung and Kiphire substations, funding will be requested from North Eastern Council (NEC).

In 201st OCCM, SE, DoP Nagaland intimated that installing 10MVAR reactor at Meluri substation is practically challenging owing to manpower and space issues. Instead, installing 5MVAR reactors at Kiphire and Kohima each can be looked into.

In 202nd OCCM, Sr. GM NERLDC intimated that installation of 5MVAR (or 10MVAr) reactors at Kiphire and Kohima has favorable effect on the voltage profile of the Kohima-Meluri-Kiphire link.

CGM, NERTS stated that the effects of reactors may be favorable owing to presence of weak source of reactive power in the region, which might not be the case with addition of new networks which are under construction under NERPSIP or state projects. He therefore suggested that to ensure long term stabilization of voltage profile of Nagaland power system, a system study has to be conducted incorporating the upcoming elements in the state.

NERLDC agreed to do the study and will present the study in next OCC meeting.

Regarding upgradation of Tuensang bay equipment from existing 66kV level to 132kV level, Manager, NERPSIP intimated that the upgradation work is under the scope of NERPSIP and tender will be awarded in the next one month. He further stated that the upgradation will be completed in next one year.

Sub-committee may deliberate

B.16. RPCs are requested to consider following agenda in the OCC/RPC meeting(s) to popularize and explain the PUShP portal to the constituents/stakeholders.

PUShP portal (For Flexibilization of PPA for Optimal Utilization of Resources and Reduction in cost of Power for Consumers) has been launched on 09th March, 2023 by Hon'ble Minister of Power and NRE.

The Portal would be a single window system providing services to diverse domains of all the entities involved and to reallocate and transfer the power in minimum time from one surplus entity to deficit entity. In recent past years, difficulties are observed in meeting the demand and some states do resort to power cuts, especially during April, May, September and October months the crisis is observed while other states have

surplus power capacity. The States which have surplus power continue to bear the fixed charge burden without using it which leads to high cost of power to the consumers. Regional diversity makes some states surplus. Like Peak in Northern region is during summer whereas Peak in Southern region is during winter. Similarly, there is diversity in the time at which the peak occurs in the States. Such regional diversity in the load demand was not able to address even though the generation capacity is available in the country. The reasons behind were many like one-to-one Power Purchase Agreements, some procedural constraints, non-availability of easy match making arrangements etc.

This portal will provide a platform for optimal utilization of generating capacity and will resolve the above issues. The scheme will not disturb the existing arrangements rather an additional avenue shall be provided to stakeholders for optimal use of generating capacity. The scheme envisages paperless working for temporary allocation / transfer of power from surplus (Seller) entity to deficit (buyer) entity. The benefits of the portal also include Flexibilization of Power Purchase Agreement, Availability of power to DISCOMs, reduction in power cuts, reduction in fixed charge burden on the states having surplus power, Allocation /Transfer of Power at regulated tariff in a minimum time.

Key Benefits of the scheme: -

i. Flexibilization of Power Purchase Agreement

ii. Optimal Utilization of Power due to regional diversity and their increased availability.

iii. Availability of power to DISCOMs improves and reduction in power cuts.

iv. Meet the power demand of the country especially during the crisis situation in the month of April, May, September and October.

v. Reduction in fixed charge burden on the states having surplus power.

vi. Allocation /Transfer of Power at regulated tariff.

vii. Reallocation of power in minimum time with automated process.

viii. The scheme envisages a paperless working.

ix. None of the existing arrangements shall be disturbed, rather an additional avenue has been provided.

x. The portal envisages temporary allocation/transfer of power; subjected to willingness of seller and Buyer, confirmation of transmission corridor by concerned agencies and confirmation of payment security on portal by the new Buyer/Gencos before scheduling of such power.

In 200th OCCM, Member Secretary, NERPC briefly explained the benefit of the Scheme and requested all concerned constituents to participate and fully utilize the portal. He also informed that further training or workshop can be organized (if necessary) in the coming days.

In 201st OCCM, Member Secretary NERPC exhorted the utilities to actively participate on the PUShP portal and avail the benefits provided by it. Also, the forum decided that any utility surrendering power on this platform should inform all other utilities in NE region about the same to help ensuring early requisition of the surrendered power.

In 202nd OCCM, the forum noted that in the NER region only Mizoram is participating in the portal. Member Secretary, NERPC stated that a special meeting with state Discoms will be organized by NERPC in order to sensitize them about the portal and associated benefits.

Sub-committee may deliberate

B.17. Annual Maintenance Contract for ADMS:

The "Go Live" dates in ADMS implementation for NER states is as below:

Sl.No.	Name of SLDC	System "Go Live"
1	Meghalaya SLDC	04.09.2020
2	Manipur SLDC	24.11.2020
3	Nagaland SLDC	01.12.2020
4	Arunachal Pradesh SLDC	01.02.2021
5	Mizoram SLDC	01.03.2021
6	Assam SLDC	10.03.2021
7	Tripura SLDC	16.03.2021

It may be mentioned that ADMS scheme is having a three (3) year Warranty Period following which, there is a provision for an Annual Maintenance Contract after the Warranty Period. Given the regulatory mandate for compliance of ADMS and the benefits of its continued operation, it becomes imperative for a collective Annual

Maintenance Contract which among other things would bring about a reduction in the financial involvement vis-à-vis higher rates with separate / individual AMCs. Since the timelines mentioned are spread over a few months only, the SLDCs may deliberate on a collective Annual Maintenance Contract which can be approved (with same terms and conditions immediately on expiry of individual Warranty Periods) given the collective reduced charges and lack of expertise in maintaining the system.

In 200th OCCM, Director, NERPC informed that considering the regulatory mandate for compliance of ADMS and the benefits of its continued operation, all the State Utilities have agreed to have a combined AMC for ADMS during the 24th NETeST meeting for cost effectiveness vis-à-vis individual AMC. Member Secretary NERPC stated that AMC of the ADMS, after the warranty period, may not be covered under PSDF funding and States have to pay for the same. The State Utilities requested NERPC to take up with original vendor M/s Orbit Techsol India Private Limited regarding the matter.

In 201st OCCM, all the States requested NERPC to initiate tendering for combined AMC of ADMS for all the states. Director, NERPC suggested that a tendering committee may be formed that will look into tendering and related work of the AMC. The forum agreed and decided that members would be nominated from all States, NERLDC & NERPC and coopted members if necessary.

In 202nd OCCM, Director, NERPC informed that nomination for constituting a committee for procurement of AMC of ADMS has been received from Meghalaya and Mizoram.

The forum requested other state utilities and NERLDC to nominate respective member for constituting the committee at the earliest.

Sub-committee may deliberate

B.18. Declaration of the following lines of Meghalaya as Deemed ISTS lines:

1. 220 KV Killing-Misa D/C line.
2. 132 KV Mendipathar-Agia S/C line
3. 132 KV Nangalbibra-Agia S/C line
4. 132 KV Khliehriat-Khliehriat (PG) line 2

It may be mentioned that 132 KV Umtru-Sarusajai D/C line, 132 KV Umtru-Kahilipara D/C line and 132 KV Lumshnong-Panchgram S/C line had earlier been declared as Deemed ISTS lines. The forum may please deliberate on inclusion of the above lines listed as Sl.no.1 to 4.

In 201st OCCM, MePTCL apprised the forum that the 220kV Killing-Misa D/C line and LILO of 400 KV D/C Palatana-Bongaigaon at 400/220 KV Killing S/S as ISTS lines have already been approved as Deemed ISTS line in the 17th TCC/RPC meeting. Member Secretary, NERPC stated that if deemed ISTS line is approved in RPC meeting based on study, State may file petition to Hon'ble CERC citing the relevant portion of the Minutes of the meeting.

Director, NERPC highlighted that after the sharing regulation of 2020, deemed ISTS certification by NERPC has been discontinued and the utility may directly approach implementing agency and CERC for inclusion under PoC tariff. However, for truing up of lines for 2014-19 tariff block, NERPC can consider for according certification as per the relevant regulations, pertaining to the said period. For certification, NERLDC was requested to ascertain the power flow pattern on the line for the relevant period in consultation with NLDC.

Member Secretary, NERPC asked MePTCL to approach the Implementing Agency i.e. NLDC to establish the power flow pattern on the lines in respect of tariff period covered under Sharing Regulations 2020.

In 202nd OCCM, MePTCL intimated that NERLDC has been requested to establish the power flow pattern on the 132kV Nagalabibra-Agia line for the period 2014-19, so that the ISTS status of the line can be verified and presented to Honorable CERC and truing up for the 2014-19 tariff block can be done.

Sr. GM NERLDC stated that the software tool, used for conducting such study, is possessed by NLDC and the study will be conducted in consultation with the same. He further sought clarification from the NERPC about the time frame for which the data on power flow should be submitted. He stated that the quarterly data is available with NERLDC. Forum suggested that study may be based on the data availability with NERLDC i.e. quarterly basis. The quarterly data for utilization of the lines should be

averaged out for the whole year and finally year wise data for the five years (2014-19) can to be submitted.

Sub-committee may deliberate

B.19. Shutdown required M/s Sterlite

i) 132 kV Nirjuli-Lekhi & Nirjuli- Gohpur Transmission Line for crossing between Loc. 136-137 along with at location 132-133 of Nirjuli-Gohpur line on 17.06.2023 and 18.06.2023. The necessary power line crossing approval has already been obtained from POWERGRID.

ii) 132 kV S/C Ranganadi-Pare and Pare-Lekhi lines along with associated bays at Pare w.e.f. 20.06.23 to 30.06.23 (continuous shutdown). Shutdown of those bays and lines are required to straighten Ranganadi Lekhi/Nirjuli line disconnecting from Pare LILO and commissioning of new Pare-Nirjuli & Pare North Lakhimpur line.

The sub-committee may deliberate

B.20. Regarding implementation of Green Energy Open Access Rules,2022

As you might be aware that Green Energy Open Access Rules have been notified by the Ministry of Power (MOP) on 6th June 2022.Subsequently, Grid-India has developed the Green Open Access Registry (GOAR) portal on the Green Energy Open Access Rules, 2022 and the amendment thereof.

Hon'ble Minister of Power has taken a review meeting on 12.05.2023 with present and prospective Green Energy Open Access users to understand the various difficulties associated with green energy open access. Various regulatory aspects are also being monitored in connection with this rule at the highest level. In this regard, the RCM Division, MOP has sought periodic reports regarding the implementation of Green Energy Open Access Rules.

Therefore, All SLDCs are requested to kindly

1. Nominate one nodal person for co-ordination purpose.
2. Share the periodic details as per Annexure-1 & Annexure-2:

Timeline for data submission as per Annexure-2 is as follows:

The weekly period will be from Monday to Sunday (say 1 to 7th)

SLDCs to provide the data by next Monday (say 8th)

RLDCs to provide consolidated data to NLDC by Tuesday first half (say 9th)

NLDC will provide the data by Tuesday EOD to Ministry of Power (say 9th)

E-mail communication in this regard has already been sent to all SLDCs on 16th May and 17Th May,2023

Annexure-1

1	**Whether SERC has issued Regulations for Green Energy?**	Yes/ No
2	**Whether OA Regulations amended to provide GEOA to consumers above 100 kW**	Yes/ No/ NA
3	**No. of registered users**	
4	**No. of Green Open Access Applications received in a month**	
5	**No. of applications approved (to be applied within 15 days) in a month**	
6	**Quantum of transactions in a month**	
7	**Green Tariff- Component-wise cost where available**	

Annexure-2

For the period : .....

State Name	Banking Period	Banking Charges	Banking settlement period	Treatment of unutilized energy by RE generator	Quantum of Energy Banked by DISCOM on weekly basis (Mus)

As per 202nd OCCM, the forum requested all state SLDCs to provide details of Nodal officers to NERLDC and also provide the required data in the formats as provided. However, as per NERLDC, Nodal officers' details as well as the said data yet to be received from all state SLDCs.

Sub-committee may deliberate

C. NEW AGENDA ITEM

Agenda from SLDC AEGCL

C.1 Requirement of the import and export meter data of the ISTS lines connected with AEGCL

For the purpose of proper energy accounting and calculation of transmission loss of AEGCL, Assam SLDC is in requirement of the **import** and **export** meter data of the ISTS lines connected with AEGCL. It may be mentioned here that the ISTS meter data available in the NERLDC website is the **net** import/export. SLDC has enquired regarding this over phone with NERLDC, however it has been noted that the NERLDC itself receives the **net** import/export from the field personnel. Therefore, the forum is requested to kindly discuss the above and guide Assam SLDC to help facilitate the timeblock wise **import and export meter data separately** for each of the ISTS lines

Sub-committee may deliberate

Agenda from NEEPCO

C.2 Difficulties in retrofitting works of 220KV CT at AGBPS

AGBPS had applied to avail shutdown (based on D-3) for retrofitting, testing and commissioning of new 220KV CTs (0.25 class accuracy) at 220KV S/Y of AGBPS, NEEPCO. Based on last experience of retrofitting works at 220KV S/Y, AGBPS had considered maximum 5 days for each bay/unit assuming weather conditions, unpredictable situation, making necessary arrangement for lifting of equipment including time for approval from RIO for charging clearance etc. However, efforts will be made from AGBPS to minimize the shutdown period and restore the generating unit as early as possible. In our letter, we also have stated that the sequence of units for retrofitting works may change on real time basis depending on site conditions. Please refer letter at reference 1, 2 & 5 above.

Accordingly, NERPC has approved the shutdown as follows:

a) GTG#5, w.e.f. 23.5.2023 (00:00hrs) to 27.5.2023 (2400hrs);

b) GTG#6, w.e.f. 29.5.2023 (00:00hrs) to 03.6.2023 (2400hrs);

c) 220KV Bus Coupler w.e.f. 05.06.2023 (00:00hrs) to 09.06.2023 (2400hrs).

AGBPS had completed the work of GTG#5 on 24th May 2023 i.e. before the scheduled time. On restoration of GTG # 5, NERLDC was requested to prepone the shutdown for the next unit (i.e. GTG#6) w.e.f. 26.5.2023 to 30.5.2023 instead of scheduled shutdown w.e.f.

29.5.2023. This was the necessity as per the site /weather conditions etc

But NERPC/NERLDC was not agreed to prepone the shutdown stating that frequent change of approved shutdown is not possible.

In view of the above disagreement to prepone the shutdown, the following difficulties are encountered-

1. AGBPS is forced to keep the commissioning team on idle/standby situation till clearance of next unit.
2. Additional service charges for the commissioning engineer & team have to bear by the corporation.
3. Additional charges for hiring of lifting equipment (Hydra) to execute the retrofitting works.
4. Delay in obtaining permission affects the switchyard stability.

Considering the above, the agenda is placed for discussion.

Sub-committee may deliberate

Agenda from NERLDC

C.3 Replacement of CT by availing emergency shutdown:

On 31.05.2023, AGBPP Kathalguri had requested for emergency shutdown of B-ph CT of 220kV Bus coupler Bay for replacement of a CT of a particular phase due to heavy oil leakage observed in the CT. However, the CTs of the other phases were also replaced without approval.

Again, on 05.06.2023, AGBPP availed shutdown of Y-ph CT of GT-6 on emergency basis for replacement of Y-ph CT due to heavy oil leakage. NERLDC approved the emergency shutdown of the element for carrying out replacement work of the defective CT. However, the CTs of the other phases were also replaced.

The shutdown procedure was not followed for both the instances which is highly undesirable.

NEEPCO is requested to avoid such practices and come through proper channel for replacements of elements that does not fulfil the criteria for emergency.

Sub-committee may deliberate

C.4 SF6 gas filling of Umrangshu bay at Halflong(PG) without prior intimation:

132kV Halflong – Umrangshu line tripped at 11:53 Hrs of 20.05.2023 on Distance Protection. The line was charged at 14:20 Hrs of 20.05.2023. The delay in charging was due SF6 Gas filling being done in Umrangshu bay at Halflong(PG) which was not informed to NERLDC. NEEPCO had also requested for a shutdown of 132kV Khandong – Umrangshu line for rectifying some metering issue which was postponed due to outage of 132kV Halflong(PG) – Umrangshu line.

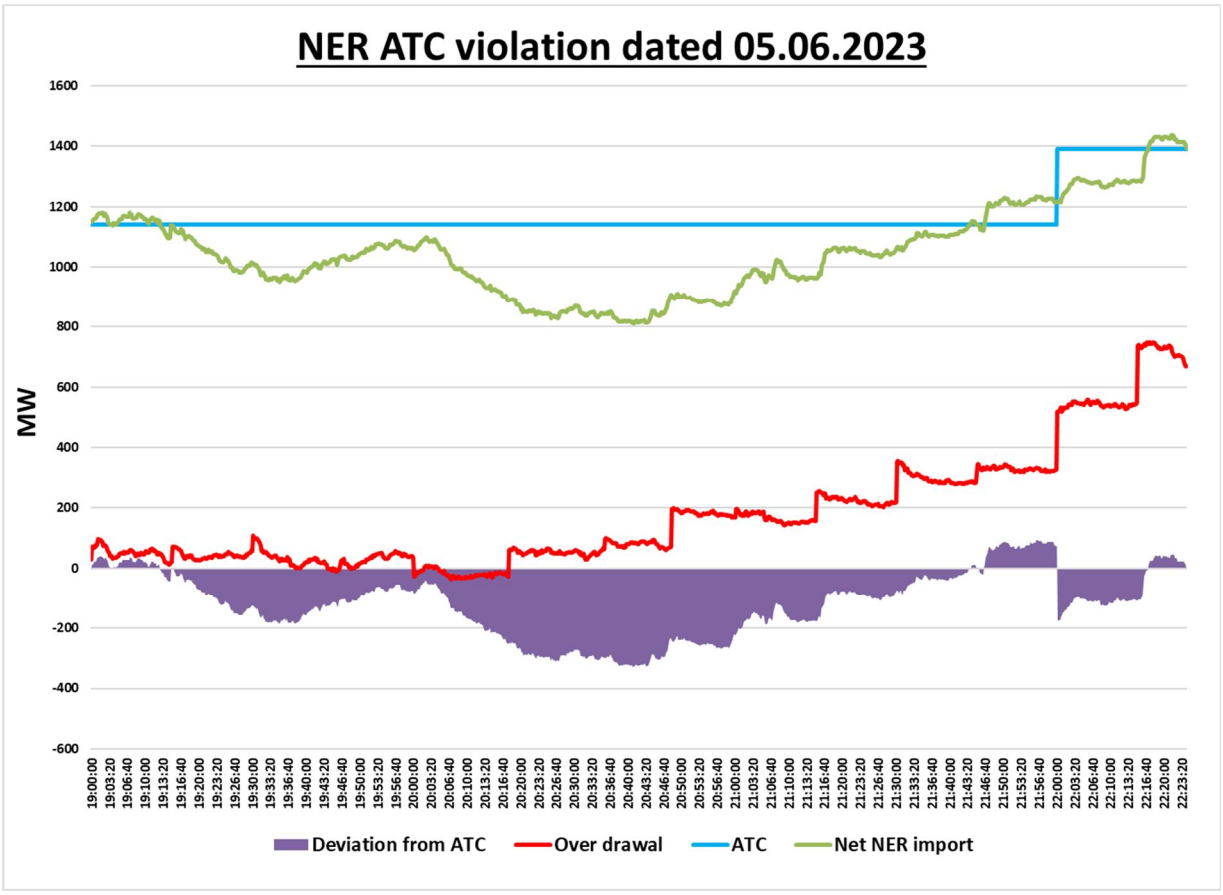
NERTS is requested to follow proper procedure for such kind of activities.

Sub-committee may deliberate

C.5 Interregional ATC/TTC violation of NER grid:

It has been observed that at many instances, ER-NER inter-regional ATC as well as TTC violations occurred due to over drawl by states which is very alarming to the grid. Such ATC/TTC violation in NER Grid during any unseen contingency may result in tripping of important inter-regional link & cause disturbances in the system.

In view of the above concern, all measures are to be taken beforehand to keep drawal strictly as per schedule and limit the interregional as well as intra-regional values within the respective ATC and TTC limits. In case of sustained violations RLDC/NLDC may impose congestion charges as per regulations.



Sub-committee may deliberate

C.6 Outage of several 132 kV intra-state lines in Manipur Power System

The following intra-state lines in Manipur Power System are under outage as follows:

1. 132 kV Ningthoukhong-Churachandpur D/C since 14:50 hrs of 6th June 2023 on tower collapse
2. 132 kV Churachandpur-Kakching S/C since 12:21 hrs of 8th June 2023 on tower collapse
3. 132 kV Churachandpur-Elangkangpokpi S/C since 12:21 hrs of 8th June 2023 on tower collapse

Grid Disturbance had occurred on 8th June'23 in Churachandpur area due to tripping of 132 kV Churachandpur- Kakching S/C and 132 kV Churachandpur-

Elangkangpokpi S/C lines on account of unavailability of 132 kV Ningthoukhong-Churachandpur D/C.

Power is yet to be restored in the Churachandpur and Thanlon areas of Manipur Power System causing severe disruption of power in these areas since 8th June'2023.

MSPCL is requested to expedite the restoration of the lines at the earliest to ensure reliable grid operation.

Sub-committee may deliberate

C.7 Early Commissioning of Bus Reactor at Byrnihat (MePTCL)

During 23rd TCC & 23rd NERPC Meetings held on 18th & 19th November 2022 in Goa, NERLDC highlighted that voltage rise issue is witnessed at Byrnihat throughout the year and gets more severe during the lean hydro period leading to difficulty in grid operation. The 63 MVAR Bus Reactor at Byrnihat is under prolonged outage. Commissioning of Bus Reactor at Byrnihat will mitigate the high voltage problem.

As per deliberations of 23rd TCC & 23rd NERPC Meetings held on 18th & 19th November 2022 in Goa, Director (Trans), MePTCL requested intervention of forum for recommending balance funding (₹2.22 Cr) from PSDF in view of cost escalation during price discovery. After detailed deliberation the forum recommends PSDF Secretariat to reconsider the sanctioned amount in view of the higher price discovery during procurement.

As per minutes of 201st OCC Meeting held on 25th April, 2023, the following has been mentioned as the present status "Coordination issues with the vendor. WIP"

This is to reiterate that charging of the Bus Reactor at Byrnihat is very essential to maintain proper voltage profile in the NER Grid.

MePTCL is requested to update the latest status and expedite the installation process.

Sub-committee may deliberate

C.8 Early Installation of 420 kV, 80 Mvar Bus Reactor at Ranganadi HEP

Voltage rise issue is witnessed at Ranganadi HEP throughout the year and it gets more severe during the lean hydro period leading to difficulty in grid operation. 400 kV lines at Ranganadi HEP are also kept open for considerable period of time to control voltage at Ranganadi during real-time operation which is affecting the reliable operation of NER Grid.

As per deliberations in 202nd OCCM of NER, NEEPCO informed that the work will be completed by Dec'23 citing Logistics and Transportation issues. The LOA has been issued on 11.01.2022.

NEEPCO is requested to update the latest status and expedite Installation of 420 kV, 80 MVAr bus reactor at Ranganadi HEP.

Sub-committee may deliberate

C.9 Commissioning of LILO of one circuit of 132 kV Biswanath Chariali-Itanagar D/C at Gohpur

132 kV Biswanath Chariali – Itanagar D/C has been approved by Joint Standing Committee of ER and NER on 03.01.2014. LILO of one circuit of 132 kV Biswanath Chariali (PG) – Itanagar at Gohpur was approved in 6th Standing Committee of NER held at Imphal on 03.10.16 & 17th NERPC meeting on 04.10.16. As we know, Pavoi,Gohpur, North Lakhimpur, Dhemaji and Majuli areas of Upper Assam Power System are only being fed from Biswanath Chariali, the system is not N -1 compliant at present. Hence, commissioning of the above-mentioned line would solve the problem, making the system redundant.

132 kV Biswanath Chariali - Itanagar 1 Line and 2 Line was charged on 01.04.2021 and 02.04.2021 respectively, but LILO at Gohpur has not been completed yet. Commissioning of the LILO at 132 kV Gohpur substation would enhance the drawl capability of Gohpur, North Lakhimpur and Dhemaji area of Assam power system and also improve the voltage profile of these areas. NERLDC vide letter dated 06.06.23 to NTL highlighted the same.

As per minutes of 199th OCCM, NTL had informed in the meeting that LILO will be ready for commissioning after signing of the supplementary connection agreement with concerned utilities and that signing of connection agreement is pending with Arunachal Pradesh.

NTL is requested to expedite the commissioning for LILO of 132 kV Biswanath-Chariali-Itanagar II line at Gohpur for enhancing the reliability of the Gohpur, North Lakhimpur and Dhemaji area of Assam power system.

Sub-committee may deliberate

C.10 Commissioning of 2nd circuit of 220 kV Mariani-Samaguri

After conversion of 220 kV Misa-Mariani(PG) and 220 kV Misa-Mariani (AS) to 400 kV Misa-Mariani D/C, the Upper Assam System has become vulnerable under N-1 contingency. Frequent generation backdown has to be carried out by the system operators to secure the system under N-1 contingency under condition of outage of any tie-line which connect the upper Assam system with the All-India Grid. Upper Assam gate-flow is being monitored and necessary backdown of gas-based generation carried out to maintain the same.

Early commissioning of 2nd circuit of 220 kV Samaguri-Mariani (AS is necessary to maintain N-1 reliability in Upper Assam Power System and reduce the need for frequent backing down of gas-based generation in Upper Assam System.

As per minutes of 202nd OCCM, SLDC Assam informed that the forest clearance is still waited for Samaguri- Khumtai section in 220 kV Samaguri-Mariani (AS) line and it has been pending since 182nd OCCM.

AEGCL is requested to expedite the commissioning and share the latest status for reliable system operation.

Sub-committee may deliberate

C.11 Utilization of ICTs at 400/220 kV New Kohima Substation

The 2x500 MVA ICTs at 400/220 kV New Kohima substation have been commissioned on 13.11.20 but still the downstream system at New Kohima has not yet been utilised. DoP Nagaland is requested to intimate the latest status of commissioning of 220 kV New Kohima (TBCB) – New Kohima D/C

Sub-committee may deliberate

C.12 Restoration of 400 kV Kameng Unit 1

400 kV Kameng Unit 1 is under long outage since 10th Dec'2022 for completion of E & C works. With the onset of the monsoon season, non-availability of the Unit will lead to water spillage in the Kameng river basin, causing underutilization of the Kameng HEP.

NEEPCO is requested to expedite the restoration work and revive the unit strictly as per the scheduled time.

Sub-committee may deliberate

C.13 Charging of 33kV Khupi-Kimi line at 132kV

As per Recommendations of the 187th OCCM, following were to be implemented for charging of 132 kV

(A) Installation & Commissioning of PLCC and additional Wave Trap with accessories at Khupi (NEEPCO) - By Mar'22 Minutes of 188th OCC meeting held on 16th March, 2022 at Guwahati

(B) Defective Relays at Khupi end to be repaired (NEEPCO) – By Mar'22

(C) PID testing and replacement of defective insulators (NEEPCO) – By Mar'22

(D) Infringement checking and vegetation clearance (NEEPCO) – By Mar'22

(E) Stringing of OPGW by POWERGRID Comprehensive – By Mar'22

(F) Procurement and installation of Line Differential Relays (NEEPCO) – By Mar'22 (Agenda B.15 of 188th OCCM

As per the minutes of 201st OCCM, only end equipment for OPGW communication was to be installed and it was informed that OPGW communication will be ready by 15th May'23.

As we know, 132 kV Tenga, Khupi and Dikshi areas of Arunachal Pradesh are connected radially by 132 kV Balipara-Tenga line and tripping of this line causes frequent grid disturbances in these areas. From May'23 to present time, 4 number of grid disturbances have occurred due to tripping of 132 kV Balipara-Tenga line.

NEEPCO may update the latest status and expedite the charging of the same.

Sub-committee may deliberate

C.14 Readiness of end bay equipment for re-conductored 220 kV BTPS-Salakati D/C

220 kV BTPS-Salakati D/C lines have been reconductored with HTLS conductor and now each circuit can carry the ampacity (1100A) as per HTLS Conductoring. However, it is being limited to carrying 800 A, or 304 MVA (289 MW at a power factor of 0.95) as the end bay equipments at BTPS and Salakati ends have a CT ratio of 800/1. Hence, the re-conducturing feature of the lines could not be utilized fully in present condition. POWERGRID is requested to upgrade the end bay equipment to facilitate the maximum utilization of HTLS re-conductoring.

Sub-committee may deliberate

Agenda from MeECL

C.15 Request for exemption of ADMS triggered load shedding from DSM perspective.

At present, Meghalaya is facing a power crisis primarily due to low reservoir levels besides less net availability of power. This has among other things led to imposition of load shedding throughout the State. An analysis of the Deviation counts and the corresponding frequency for every 15-minute block starting from 00:00 hours of 01.05.2023 up to 24:00 hours of 31.05.2023 amounting to 2976 time-blocks revealed the following in respect of ADMS operation:

ADMS operation was required for 12.6 % of the time for overdrawal according to the new DSM Regulations (340 instances or 11.42 % of the time) and around 1.12 % of the time (35 instances) from the frequency (< 49.90 Hz) operation perspective. Moreover, ADMS is only a pilot project involving only five 33/11 KV substations and only twenty-two (22) 11 KV feeders, and an increase in the number of ADMS triggered signals would have an effect on circuit breakers from frequent operations and more so in light of the ongoing Load Shedding requirement.

The matter was brought to the notice of MePDCL for exploring options to mitigate the situation. In the interim period, it was requested to kindly consider exemption of ADMS triggered tripping from operation when there is overdrawal greater than 20% of the

schedule for the time being till the power scenario for Meghalaya improves. If agreed, this would leave only ADMS operation for any overdrawal at a frequency of less than 49.90 Hz as per relevant mandates of the Indian Electricity Grid Code and MSERC State Grid Code.

Sub-committee may deliberate

C.16 Time frame for taking up and completion of works related to upgradation of 132 KV Badarpur and 132 KV Khliehriat (PG) substations from single main and transfer bus scheme to double main bus scheme by converting from AIS to GIS

Meghalaya had agreed for conversion of 132 KV Khliehriat #2 (State) bay from AIS to GIS under ISTS. In this regard, POWERGRID is requested to kindly state the time frame for initiating and completion of works mentioned above. In this regard, load flow studies are requested to be carried out by NERLDC in coordination with Meghalaya SLDC to assess the power system scenario prior to starting of the above work.

D. ITEMS FOR STATUS

D.1. Implementation of projects funded from PSDF:

The status as informed in 202nd OCCM:

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 TESG queries.	30% requisition submitted.	Revised DPR including both 132kV Aizawl-Luangmualand 132kV Khamzawl-Khawiva to be submitted.

Manipur	Package-II: completed Package-I: all stations complete except Ningthoukhong. By May'22.	Work completed in all respects. UC submitted in Oct'21.	WIP.	10% disbursed for IT portion, no disbursement for Meter, AMR portion. 20% disbursement for IT portion after completion of 3rd milestone. 30% to be disbursed for Meter, AMR portion	Revised DPR for LDP of 132kV Imphal-Yurembam-III to be submitted by June'22.
	33kV System Integration with SLDC	In tendering stage			
	Reliable Communications for grid connectivity	In tendering stage			
Tripura	Completed. Final UC submitted on 04th 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-Budhjungnagar 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.

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

D.2. Status update of important grid elements under prolonged outage impacting system operation:

Sl. No	Element	Owner	Status up to the 202nd OCCM	Latest Status
1	132kV Mariani – Mokokchung (*out since April'2008*)	AEGCL	Non clearance due to persisting funding issue	
2	132kV Roing-Pasighat (*charged through ERS tower*	NERTS	1st tower by April'23 while 2nd tower requires tendering, tentative completion by Nov'23	
3	220kV Misa-Kopili D/C, 220/132kV ICTs at Kopili, 132kV Khandong –Kopili D/C(*out since Oct'19*)	NEEPCO/ NERTS	Item B.8 (Kopili-Khandong by September'23 and Misa-Kopili by June'23)	
4	132kV Srikona – Panchgram	AEGCL	LOA issued on 18.02.2023, Work in progress, tentative completion within 8 months	
5	400kV Imphal – Thoubal-I and 315MVA 400/132kV ICT at Thoubal	MSPCL	RoW, litigation pending in court.	
6	63MVAR Bus Reactor at Byrnihat to be replaced with 80MVAR Reactor	MePTCL	Coordination issues with the vendor. WIP. Waiting for PSDF fund.	

D.3. Status of commissioning for upcoming projects:

Sl. No	Name of the element	Utility	Status up to the 202nd OCCM	Latest Status
1	132kV Monarchak-Surjamaninagar	TSECL	RoW and Funding issue hampering the progress. To discussed	

			in 24th TCC/RPC meeting	
2	PLCC for 132kV Loktak-Ningthoukong and 132kV Loktak-Rengpang(existing lines)	MSPCL	Under R&M by NHPC. July'23	
3	Commissioning of 220kV Balipara-Sonabil-2ckt 2	AEGCL	AEGCL- Ckt 2 bay at Sonaibil will be ready within one month as M/s is yet to do A/R integration. PGCIL-applied for PTCC clearance of the line.	
4	Upgradation of 132kV Lumshnong – Panchgram line	MePTCL	Work has started, tentative completion by June'23	
5	PLCC for 132kV Karong-Kohima. PLCC at Kohima	DoP Nagaland	Awaiting sanction from PSDF	
6	132kV Loktak-Ningthoukhong-II	MSPCL		
7	132kV Roing-Chapakhowa	NERTS	Foundation completed. 14kM Stringing left. Tentative charging by end of May'23.	
9	420kV 80MVAR Bus Reactor	NEEPCO	Dec'23	
10	220kV Killing – Mawngap	NERPSIP	Refer to item B.8. June'23	
11	220kV Samaguri – Mariani-I	AEGCL	FC for Samaguri-Khumtai section is still awaited.	
12	PLCC/DTPC for 220kV Balipara- Sonabil	AEGCL	Equipment procured, to be commissioned after rectification of SAS	
13	220kV AGBPP –Namsai D/C	TBCB	Oct'25	
14	Upgradation of 132kV Surjamaninagar-Surjamaninagar(ISTS), 132kV Bodhjungnagar-SMNagar, 132kV P.K.Bari-Ambassa, 132kV P.K. Bari-P.K.Bari(ISTS)	TSECL	TSECL updated that DPR has been submitted and TESG has approved the same. The work will start as soon as the funds are disbursed.	

15	LILO of 132kV Leshka-Khliehriat-I at Mynkre and Mynkre SS and 33kV downstream at Mynkre.	NERPSIP	LILO ready, Substation WIP - June'23	
16	220kV Tinsukia-Behiating D/C	NERPSIP	WIP - May'23 due to ROW	
17	LILO of 132kV Kamalpur-Kamakhya& 132kV Kamalpur-Sishugram at Amingaon	NERPSIP	Completed. Ready for charging.	
18	220kV Rangia – Amingaon D/C and 220/132kV 2x160MVA Amingaon S/S	NERPSIP	May'23 due to ROW	
19	132kV Rengpang-Tamenglong and 132/33kV 4x6.67MVA at Tamenglong at Manipur	NERPSIP	May'23 due to ROW	
20	132/33kV 2x20MVA Gamphazol at Manipur	NERPSIP	Test charged in Dec'22.	
21	132/33kV West Phaileng S/S at Mizoram	NERPSIP	Ready for charging. Line WIP.	
22	132/33kV 2x12.5MVA Marpara S/S at Mizoram	NERPSIP	May'23	
23	132/33kV 2x12.5MVA Lungsen S/S at Mizoram	NERPSIP	May'23	
24	132kV Lungsen-Chawngte S/C at Mizoram	NERPSIP	Ready for charging.	
25	132kV Chawngte – S.Bungtlang S/S at Mizoram	NERPSIP	May'23	
26	132kV W.Phaileng-Marpara S/C at Mizoram	NERPSIP	June'23 subject to RoW clearance in Pukzing village in Mamit district	
27	220kV Zhadima – Mokokchung at Nagaland	NERPSIP	Ckt 1 charged in Mar'23. Other ckt waiting for finalization of MoU	
28	LILO of 132kV Wokha – Kohima at 132/33kV	NERPSIP	Line ready, jumpering not yet done	

	New Kohima (Zhadima) at Nagaland			
29	132kV Wokha-Zunheboto – Mokokchung at Nagaland	NERPSIP	Stringing in 2 or 3 spans left, by June'23	
30	132kV Tuengsang – Longleng at Nagaland	NERPSIP	Line ready, Tuensang substation upgradation under progress	
31	132/33kV Amarpur S/S at Tripura	NERPSIP	June'23	
32	132/33kV Manu(new) S/S at Tripura	NERPSIP	June'23	
33	132kV Dharmanagar-Kailashor	NERPSIP	May'23	
34	132kV Ziro-Yazali and 132/33kV Yazali S/S	POWERGRID-Comprehensive		
35	132kV Yazali – Palin and 132/33kV Palin S/S	POWERGRID - Comprehensive	132kV Yazali - Palin Line - Stage I Forest Clearance Obtained a) 3 foundation work completed . 132/33kV Palin S/s- a) CRB WIP. b) Electrical Works to be started.	
36	132kV Palin- Koloriang and 132/33kV Koloriang S/S	POWERGRID - Comprehensive	132 kV Palin - Koloriang Line - No Forest Clearance Obtained a) Not Yet Charged. 132/33kV Koloriang S/s- a) CRB First Slab (to be completed within this month)	
37	132kV Khonsa – Deomali and 132/33kV Khonsa S/S	POWERGRID - Comprehensive	132 kV Khonsa - Deomali Line - a) Foundation, Erection and Earthing WIP. 71/87 Foundation Complete 50/87 Erection	

			Complete Target for completion: June 2023 132/33kV Khonsa S/s- a) CRB Finishing Work b) Cabling , Foundation, Retaining Wall WIP	
38	132kV Miao – Namsai and 132/33kV Miao S/S	POWERGRID - Comprehensive	132kV Miao - Namsai - a) No Work due to ROW issue at Miao. b) No Work due to sand boiling and ROW issue at Namsai. 132/33kV Miao S/s- a) Gravel Spreading b) Water Proofing for exposed area of Transit Camp first Floor c) Testing of Isolators Completed d) Electrification WIP e) Site Levelling WIP.	
39	132kV Chimpu – Holongi and 132/33kV Holongi S/S	POWERGRID - Comprehensive	Ready for charging	
40	Lower Subansiri HEP	NHPC	Unit 1 and 2 by June'23	
41	400kV Lower Subansiri-BNC line2	PGCIL	June'23	
42	Conversion of MT to DM at (i)132kV Khliehriat, (ii)132kV Badarpur, (iii)132kV Nirjuli, (iv) 132kV Imphal	NERTS	Nirjuli - May'23 Imphal – Badarpur & Khlerihat – Cost estimate under preparation by CTUIL	
43	Construction of Pare-N.Lakhimpur DC along with LIO at Nirjuli	Sterlite (TBCB)	Shutdown requested for 20th June to 30th June'23 to complete the work	
44	LILO of BNC-Chimpuckt II at Gohpur	Indigrid	Signing of the agreement under process	

45	220kV New Shillong-NangalBibra(ISTS 220/132kV) TL	MEPTCL	Survey completed, tendering to start soon	
46	400kV Bongaigaon-Nangalbibra (ISTS) DC (to be charged at 220kV initially)	Sterlite	Dec'23	

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 202nd 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
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 May'23. For OPGW, PGCIL is requested to Install it. Matter referred to 24th TCC/RPC
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	Transformation 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 byDec'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
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 8thjune 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 BiswanathChariali – 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 Mar'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 Surjamaninagar(TSECL) by POWERGRID to be done. Balance works under separate contract.	LILO completed for 400kV ckt 2 (by PGCIL) without bay readiness, LILO has been charged. Total completion subjected to Sub-station readiness at Surajmaninagar
C	**NEEPCO (to be implemented by NEEPCO)**			
I	**Extension works at RanganadiHEPend**			
a)	420kV 80MVAR Bus Reactor at Ranganadi Generation Switchyard		LOA on 11.01.2022	Dec'23 (Logistics and Transportation issue)
II	**Extension works at PareHEP end**			
a)	Bypassing of LILO of Ranganadi - Naharlagun / Nirjuli at Pare HEP so as to form direct Ranganadi-Naharlagun / Nirjuli132 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 about2.2km & the cost	The work is being undertaken by M/s Sterlite. Shutdowns have been availed, tentative

b)	Re-conductoring of LILO portion at Pare end (of Ranganadi - Naharlagun / Nirjuli 132kV S/c line) with HTLS (HTLS equivalentto ACSR Zebra) along with modification of 132kVbay equipment at Pare HEP	132kV	estimates have been received by NEEPCO. Work awarded to M/s Sterlite	completion by June'23. The work is undertaken by M/s Sterlite. Tentative completion by May'23

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

SL. No.	Item for Discussion	Status as per 202nd OCCM	Latest Status
1.	Introduction of SPS in Leshka S/Sn of Meghalaya (Agenda No. C4 of 189th OCCM)	Communication with M/s Hitachi underway. M/s Hitachi not responding, NERTS to help bridge the communication gap	
2.	Voltage and MVAR issues at 400kV Kameng S/Sn (Agenda No. C7 of 189th OCCM)	Discussion with OEM M/s BHEL is underway	
3.	Difficulty in test synchronization at Ningthoukhong S/Sn (installation of line CVT) (Agenda No. C11. of 189th OCCM)		
4.	Outage of 400kV Imphal (PG) – Thoubal-I (Agenda B.15 of 184th OCCM)	RoW, litigation pending in court	
5.	Charging of 33kV Khupi-Kimi line at 132kV: Recommendations of the 187th OCCM to be implemented: (a) Installation & Commissioning of PLCC and additional Wave Trap with accessories at Khupi (NEEPCO) - By Mar'22 Minutes of 188th OCC meeting held on 16th March, 2022 at Guwahati (b) Defective Relays at Khupi end to be repaired (NEEPCO) – By Mar'22	End equipment for OPGW communication to be installed. The OPGW communication will be ready by 15th May'23	

	(c) PID testing and replacement of defective insulators (NEEPCO) – By Mar'22 (d) Infringement checking and vegetation clearance (NEEPCO) – By Mar'22 (e) Stringing of OPGW by POWERGRID Comprehensive – By Mar'22 (f) Procurement and installation of Line Differential Relays (NEEPCO) – By Mar'22 (Agenda B.15 of 188th OCCM)		
6.	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.	Tender floated in the month of August'2022.	
7.	Grid Disturbance in Dhaligaon area of Assam Power System (C.18 of 191st OCCM)	Work for replacement and repairing of damaged earthing will start from 2nd week of May.	
8.	Occurrence of Multiple grid disturbance in Gohpur and radially connected areas of Assam Power System (C.10 of 194th OCC)	SEM meters provided by PGCIL, both lines bays commissioned from AEGCL end. AEGCl scope of work done, Sterlite scope of work remaining	
9.	Status of Installation of TLSA in 400kV Silchar-Azara T/L & 400 kV Silchar-Byrnihat T/L (C.12 of 194th OCCM)	LoA placed, expected completion of the delivery by June'23	
10.	PLCC & protection related issues at 132kV Tipaimukh S/s (C.15 of 194th OCC) & (C.8 of 197th OCC)	PLCC engineer to visit the SS. (MSPCL)	
11.	48V System reliability at Pasighat end (C.16 of 194th OCC)	May'23	
12.	Construction of Anchor tower at location 433 by PGCIL and reconductoring of 220kV Mariani-Mariani SC with Moose conductors (B.16 of 196th OCCM)	Shutdown taken, WIP	

13.	Commissioning of 400kV Bus-B at Ranganadi Power Station (C.14 of 192ndOCCM)	In 193rd OCCM, forum requested NEEPCO to put forth agenda for upgradation of 400 kV switchyard to GIS and implementation of 400 kV Bus–B together. To be done under R&M of the station, after 2027.	
14.	Implementation of Bus Bar Protection at 132 kV Kahilipara (AEGCL) Substation (C.8 of 196th OCCM)	Estimate submitted for procurement of CT available with core for Bus bar protection.	
15.	Furnishing of data as per Detailed Procedure on interim methodology for estimation of Reserves under CERC (Ancillary Services) Regulations, 2022(item C.4 pf 198th OCCM)	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).	
16.	TLSA installation on 132kV Leshka-Khleihriat DC	DPR submitted to PSDF secretariat	
17.	400 kV GT-1 &Silchar 1 Tie Bay at OTPC is under outage from 31/12/2022. 400 kV GT-2 & 400/132 kV ICT 2 Tie Bay at OTPC is under outage from 10/02/2023	Faulty LBB relays, under procurement, tentatively restoration by end of June'23	
18.	Installation of Line differential protection in Rokhia-N.Rokhia line	CBs for LDP of Rokhia- N. Rokhia line has to be procured. Further, DPR prepared, Tender to be floated soon.	
19.	Upgradation of 132kV Jiribam-Loktak line. Upgradation of jumper conductor to suitable ampacity and installation of CT of ratio 800/1 at Loktak HEP		
20.	Reconductoring of Umiam stg I stg III, upgradation of CT ratio to 800/1	MePGCL to divert the suitable CT from other substations	
21.	Restoration of tower no. 3 and 12 of LILO of Nirjuli-Dikrong Transmission line to Lekhi Substation (B.23. of 193rd OCCM)	In 193rd OCCM, AE, SLDC Arunachal Pradesh reiterated that restoration work may go up to March'23subject to receding of water of Dikrong river.	

		CGM(AM), NERTS reminded the forum that restoration of the original LILO section is required before Dec'22 (or Jan'23) according to ultimatum given by Railways for diversion project. SLDC Arunachal Pradesh may intimate latest update.	
22.	Long Outage of 400/220 kV ICT-3 at Byrnihat S/S (B.22. of 202nd OCCM)	MePTCL stated that the vendor has provided the quotation and the same has been sent for approval of higher management	
23.	Proposal of SPS Scheme to disconnect Bangladesh load on overloading of 132 kV Surajmaninagar (ISTS) - Surajmaninagar(TSECL) line. (C.3 of 202nd OCCM)	SLDC Tripura may update the status	

E. METERING ITEMS

E.1. Issues regarding SEM Data Processing:

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

Weekly SEM data of 132 kV Pailapool (As) Substation is important for accounting of Assam drawl. However, SEM data from the said substation is not being received.
In 202nd OCCM, Assam representative informed that PGCIL has taken the DCD from 132 kV Pailapool Substation for rectification and will be delivered within 15 days.

Status may be reviewed.

b. Non-receipt of SEM data from 132 kV Rengpang (Man) Substation:

Weekly SEM data of 132 kV Rengpang (Man) Substation is important for accounting of Manipur drawl. However, SEM data from the said substation is not being received. Issue with CMRI has been reported by the concerned substation.

Status may be reviewed.

E.2. 2. 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	TIME DRIFT
1	POWERGRID	400 kV MISA END OF SILCHAR 1	NP-9928-A	4 mins
2	POWERGRID	400 kV MISA END OF SILCHAR 2	NP-9929-A	7 mins
3	ASSAM	132 kV AGIA END OF NANGALBIBRA	NP-9920-A	6 mins
4	ASSAM	220 kV BTPS-NTPC 1	NP-9647-A	7 mins
5	ASSAM	220 kV BTPS-NTPC 2	NP-5318-A	8 mins

Status may be reviewed.

E.3. Procurement of SEMs for future requirements:

In 202nd OCCM, forum approved the proposal of procurement of 60 SEMs to fulfil the requirement for the upcoming transmission elements. Further the forum noted that the new meters, to be procured, should be compatible with the existing DCDs.

CTU may update the status