

Agenda for 200th OCC Meeting



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

North Eastern Regional Power Committee Agenda for the

200th Operation Coordination Sub-Committee Meeting

Time of meeting : 10:00 Hrs.

Date of meeting : 28-03-2023 (Tuesday)

Venue : "NERPC Conference Hall", Shillong

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 199th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 199th meeting of Operation Sub-Committee held on 22nd February, 2023 at Hotel Nandan, Guwahati was circulated vide letter No. NERPC/SE (O)/OCC/2021/ 2257-2296 dated 10th March, 2023.

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

Utility	Agenda Item	Recorded in MoM	Comments
		SLDC AEGCL updated that	AEGCL intimated
		identification of 33kV	that disconnection of Narengi GSS,
		feeders for load cutting of	trip signal will have to be sent from
AEGCL	B.15	20MW at Narengi S/S is	Kahilipara GSS which is not
		going on in consultation	possible as there is no OPGW
		with APDCL and once logic	connectivity in 132 kV Kahilipara-
		is finalized, cost	Narengi line. Hence, SLDC
		estimate will be decided	informed that additional 20 MW
			load disconnection at Sarusajai /
			Kahilipara GSS will be explored
			after consultation with DISCOM

The Sub-committee may confirm the minutes of 199th OCCM of NERPC with the above modification(s).

B. FOLLOW UP AGENDA ITEMS

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

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

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

The sub-committee may deliberate.

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.

Agenda for 200^{th} OCC Meeting to be held on 28^{th} March 2023 It was decided in the previous OCCM that shutdown would be granted from the 1^{st} day of the following calendar month to the $30^{th}/31^{st}$ day of the same month.

The sub-committee may deliberate.

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

Transmission Utilities have submitted the outage data for the month of January, 2023. The attributability of outage of the said elements is being finalized by NERLDC & NERPC. The Availability percentage of the transmission elements of ISTS licensees for the month of January, 2023 will be calculated and issued shortly:

SN	ISTS Licensee	Availability for Jan'23 (%)
1	NETC	-
2	KMTL	-
3	NER-II TL	-
4	PGCIL	-

The 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 the 199th OCCM:

Plant Name	Performed On	Due Date	Schedule of Testing/Status as per 199th OCCM
AGBPP			after upgradation of DG under R&M*
AGTTCCPP	09.04.2019	09.10.2019	Done on 4th 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 21st Oct'22
KopiliStg-II	-	-	Under prolonged shutdown
RHEP	-	-	Done on 28th Nov'22

- * Regarding AGBPP, GM NEEPCO updated that R&M of DG is under proposal stage only and he will make necessary arrangements to make the machine at AGBPP compatible for the MBS exercise.
- ** Regarding Kameng HEP, GM NEEPCO highlighted the problem related to the DAVR of the machine and also the disagreement on the procedure of the MBS exercise proposed by the OEM M/s BHEL.

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 i.e., MBS exercise is to be done once in six months.

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 three substations while yet to
		be enabled for other three substations

As updated in the 199th OCCM:

- 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. Tripura, Arunachal Pradesh and Manipur to revise the tripping logic by next OCCM
- 3. 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. States were also asked to send report regarding logic updation to NERPC & NERLDC.

The sub-committee may deliberate.

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

Agenda for 200th OCC Meeting to be held on 28th March 2023 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	N-1 considered	Limiting element	TTC	RM	ATC
	Period					
Arunachal	Off-Peak	132kV Lekhi –	132 kV Pare –	195	5	190
Pradesh	Peak	Pare	Itanagar S/C	195	5	190
Assam	Off-Peak	220kV Misa-Samaguri I or	220 kV Balipara-Sonabil	1730	40	1690
	Peak	II		1600	40	1560
Manipur	Off-Peak	132kV Imphal MA-	132 kV Imphal	320	5	315
	Peak	Imphal PG Ckt I	(MA)-Imphal (PG) II & III	320	5	315
Meghalaya	Off-Peak	132 kV Umiam3 – Umiam´	132 kV Umiam-Umiam	340	10	330
	Peak		Umiam 1 II	260	10	250
Mizoram	Off-Peak	132 kV Melriat-Silchar I	132 kV Aizawl-Luangmual	160	5	155
	Peak	ORII	S/C	155	5	150
Nagaland	Off-Peak	220/132 kV ,100	220/132 kV ,30	255	5	250
	Peak	MVA Dimapur ICT	MVA Mokokchung ICTs	290	5	285
Tripura	Off-Peak	132 kV SM Nagar (ISTS)	132 kV SM-Nagar (TR) –	340	6	334
	Peak	Budhjungnagar S/C	SM Nagar (ISTS) S/C	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 199th OCCM, 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.

The sub-committee may deliberate.

B.8. Issues pertaining to Kopili & Khandong.

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

Khandong & Khopili Power Stations have been under forced outage due to which there has been vulnerabilities in the Meghalaya Power system.

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 UmiamStg-II to UmiamStg-III D/C SLDC Meghalaya shall swiftly shed load till loading of 132kV UmiamStg-I to UmiamStg-III S/C is within limit 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 stgl-stglII 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-Umrongso feeder at Khandong end is procured and expected to be commissioned by NEEPCO before February 2022.
- 2. One Temporary KIOSK rom has been identified and Cable trenches are under Construction and, cables are being re-routed.
- 3. For availability of Khnadong Khleihriat 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-Umrongso line and NEEPCO was to provide the 48V battery bank with charger for PLCC. Status of the same may please be intimated to NEEPO.

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 199th OCCM following points were discussed

- A. Load Restriction on Meghalaya Power system
- i. Regarding 132kV Jiribam-Haflong line, 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 Khangdong 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 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 discussed in the NeTEST meetings

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

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

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 199th OCC meeting:

Dogion	Ctation	No. of		Schedule	Duration (days)
Region	Station	generators	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	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)**

*In the 199th OCCM, OTPC 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 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.

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 CI.5.2 R of IEGC 2010 Regulations.

In 199th OCCM, 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 may deliberate.

B.13. Monthly Review of LGBR

PARTICULARS	Dec-22	Dec-22	Jan-23	Jan-23	Feb-23	Feb-23
(Peak Demand in MW as	(LGBR)	(Actual)	(LGBR)	(Actual)	(LGBR)	(Actual)
per LGBR vs Actual)						
Arunachal Pradesh	142.19	144.74	128.42	166	164.59	159
Assam	1470.00	1586.27	1533.00	1643	1550.00	1572
Manipur	265.00	245.67	287.00	248	239.00	225
Meghalaya	368.00	394.41	384.00	404	381.00	394
Mizoram	133.35	143.34	132.99	159	143.49	139
Nagaland	160.00	152.09	165.00	139	160.00	148
Tripura (exc. Bangladesh)	240.00	240.56	230.00	247.71	227.80	252
NER DEMAND (exc. Bangladesh)	2774.00	2905	2680.00	2866	2709.00	2801

PARTICULARS	Dec-22	Dec-22	Jan-23	Jan-23	Feb-23	Feb-23
(Energy Requirement in	(LGBR)	(Actual)	(LGBR)	(Actual)	(LGBR)	(Actual)
MU as per LGBR vs Actual)						
Arunachal Pradesh	67.53	77.81	72.81	75.01	65.79	68.87
Assam	775.57	813.88	770.53	814.320	713.23	735.650
Manipur	101.43	103.86	107.70	104.6	88.92	78.24
Meghalaya	209.04	222.42	213.03	223.25	185.66	190.97
Mizoram	57.25	65.43	65.63	65.33	56.55	53.02
Nagaland	73.05	72.88	68.16	65.81	61.70	59.19
Tripura (excl. Bangladesh)	108.78	114.26	110.21	118.43	100.63	108.86
NER DEMAND (exc. Bangladesh)	1374.44	1470.54	1368.52	1467.423	1264.84	1295.493

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 survey 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.

In 199th OCCM, 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 may deliberate.

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 199th OCCM, 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.

AEGCL intimated that disconnection of Narengi GSS, trip signal will have to be sent from Kahilipara GSS which is not possible as there is no OPGW connectivity in 132 kV Kahilipara- Narengi line. Hence, SLDC informed that additional 20 MW load disconnection at Sarusajai / Kahilipara GSS will be explored after consultation with DISCOM.

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 may deliberate.

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-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

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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.

DoP Nagaland may update

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.

In 199th OCCM, 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 may deliberate.

B.18. Request for PSDF funding by MEPTCL for various projects

In 199th OCCM, MEPTCL had requeted for approval of the OCC forum for PSDF funding for following projects-

- i. Installation of two numbers Generator Transformer for Myntdu Leshka HEP
- ii. Installation of Raccoon covered Conductor for 33kV Power supply from Myntdu Leshka stage-1 power station to MLHEP Dam
- iii. Installation of open loop cooling water system and improvement of dewatering for Myntdu Leshka stage-I power station
- iv. Installation of Raccoon covered conductor for outside source of 33kV power supply of Umiam stage IV Power Station, Nongkhyllem coming from Umiam stage III Power Station, Kyrdemkulai
- v. Proposal for installation of equipments for Mobile Communication facilities for all Power Stations of Meghalaya

In the meeting Member Secretary informed that PSDF funding is accorded as per guidelines issued by Ministry of Power. 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 criteria for projects to be considered for PSDF funding is stated in the PSDF regulation as below:

4. Utilization of the PSDF:

- (1) The funding for projects from PSDF to the project entities shall be in the form of grant.
- (2) To ensure that the tariff in respect of such projects or schemes is not claimed for the portion of the grant from PSDF, such grant amount shall be reduced from capital cost of the project.
- (3) PSDF shall be utilized for funding of projects or schemes for creation of necessary infrastructure for the following purposes:
 - (a) Creating necessary transmission systems of strategic importance based on operational feedback by Load Despatch Centers for relieving congestion in inter-State transmission system and intra-State Systems which are incidental to the ISTS;
 - (b) Installation of shunt capacitors, series compensators and other reactive energy generators for improvement of voltage profile in the Grid;
 - (c) Installation of standard and special protection schemes, pilot and demonstrative projects and for setting right the discrepancies identified in the protection audits on regional basis;
 - (d) Renovation and Modernization of transmission and distribution systems for relieving congestion; and
 - (e) Any other project in furtherance of the above objectives such as conducting technical studies and capacity building.
- (4) Funds from PSDF may also be utilized for the projects proposed by the distribution utilities in the above areas which are incidental to inter-State transmission system and have a bearing on grid safety and security, provided that these projects are not covered under any other scheme of the Government of India or respective State Government(s).
- (5) Any Central Government scheme in the interest of development of power system which requires support from PSDF as part of the scheme shall be eligible for assistance from PSDF.
 - (6) The Central Government may prioritize sanctioning and release of funds from PSDF based upon importance of the project or the scheme and quantum of fund involved.
 - (7) Private sector projects shall not be eligible for assistance from PSDF.

"Unquote"

C. NEW AGENDA ITEMS

Agenda form AEGCL

C.1. Proposal for shifting of 33 KV line crossings of MePDCL, executed by PGCIL under NERPSIP for charging of 132 KV Agia Hatsingimari line.

AEGCL is constructing a single circuit line on double circuit tower from Agia to Hatsingimari and a substation at Hatsingimari. The project is almost completed and targeted to be charged by March 2023. However, 33 KV distribution lines of MePDCL has been constructed by PGCIL and some of the locations of the 33 KV line are below the minimum electrical clearance required. Hence, PGCIL is requested to take necessary action for shifting of the electrical poles so that the transmission line can be charged at the earliest. The list of locations is as given below: -

S I N o	Span of Agia Hatsingi mari line	GPS Co- ordinates of crossing	Place	33kV Feeder	Status
1	89/1- 90/0	25.94657500 90.12463611	Hollaidanga		Not sufficient vertical clearance.
2	90/1- 90/2	25.94410278 90.12089167	Hollaidanga	Phulbari- Tikrikilla	Not sufficient horizontal & vertical clearance. Near this crossing 2 nos. of 33kV pole; one single pole and one double pole have to shifted.
3	97/0- 98/0	25.87361111 90.09583333	Bamundangra		Stringing of 33kV not done yet. Not sufficient vertical clearance. 33kV Single pole has to be shifted.
4	105/0 - 106/0	25.86138889 90.56444444	Chihinana		Insufficient vertical clearance. 33kV Single pole has to be shifted.
5	107/0- 107/1	25.92972222 90.07972222	Chibinang		Insufficient vertical clearance. 33kV Double pole has to shift.
6	107/4- 107/5	25.85685000 90.06697222	Shyamnagar	Phulbari-	Insufficient vertical clearance. 33kV Single pole has to be shifted
7	107/5- 107/6	25.85742500 90.06496944	Silyaiiiilagai	Rajabala	Insufficient vertical clearance. 33kV Single pole has to be shifted.
8	123/0 - 124/0	25.81646944 90.97488056			Stringing of 33kV not done yet. Insufficient vertical clearance.
9	124/0- 125/0	25.81459444 90.97468611	Old Bhaibari		Stringing of 33kV not done yet. Insufficient vertical clearance. 33kV Single pole has to be shifted.

The sub-committee may deliberate.

C.2. SEM meters of ISTS lines

All the interface meters installed at the point of interconnection of ISTS network for the purpose of energy accounting are being owned by the CTU. All the interface meters have been procured and maintained by the PGCIL since inception of the connection. AEGCL has only been given the responsibility to collect the data and send to NERLDC every week as per IEGC. Moreover, time drift and periodic calibration report need to be maintained by PGCIL for better accuracy in energy accounting.

Moreover, AEGCL has installed some SEM (Genus make) in series with the existing SEM (L&T make) with AMR facility at ISTS points under SAMAST scheme. In future, AEGCL will install meters at all the ISTS points in series at AEGCL sub-station.

The matter may be noted in the OCC forum for discussion.

The sub-committee may deliberate.

Agenda from NEEPCO

C.3. Shutdown Requirement of SEMs for recommissioning of Khandong stg II.

With the E&C works of Khandong Stage II expected to be completed by last week of this month, overlooking any last-minute hindrances, the following ABT compliant SEM meters for the following feeders including both Main and Check Meters are required:

1. 132 kV Haflong Feeder - 02 nos
2. 132 kV Kheleriat II Feeder - 02 nos
3. Unit HV Feeder - 02 nos
4. Unit LV Feeder - 02 nos
5. 3.0 MVA SAT II - 02 nos

The forum may deliberate

Agenda from NERPC/CEA

- C.4. RPCs are requested to consider following agenda items in the next OCC/RPCs meeting to popularize and explain the PUShP portal to the constituents/stakeholders.
- 1) 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 includes 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.

2) An analysis has been done on underutilized power of Generating Station (CGS, ISGS, State Gencos and IPPs) as per data provided by SRPC on the basis of 2022-2023. As per the analysis, states in SR region which are in surplus and deficit in the month of April, May and June on the basis of LGBR data for year 2023 are attached as **Annexure-I**.

All RPCs other than SPRC are requested to carry out similar kind of exercise and submit to NPC, CEA at the earliest.

The sub-committee may deliberate.

C.5. Preparedness for implementation of Resource Adequacy Framework and requirement of Data

As per the draft resource adequacy guidelines published in September 2022, CEA is required to prepare long term National Resource Adequacy Plan (LT-NRAP). For preparing the LT-NRAP, State-wise information Viz: Demand, Installed Capacity, Generation (both RE and Conventional), Financial data, etc. are required to be furnished (as per the format circulated by NERPC through mail dated 21.03.2022) (Annexure II).

The sub-committee may deliberate.

C.6. Annual Maintenance Contract for ADMS:

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

SI. 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 the 24th NeTEST meeting, all state utilities suggested to go for collective Annual Maintenance Contract and the matter was referred to next OCC meeting for detailed discussion.

The sub-committee may deliberate.

Agenda from NERLDC

C.7. Preparedness for upcoming Summer and Monsoon season

Extreme weather has a significant impact on critical infrastructures, and is considered one of the main causes of wide-area electrical disturbances worldwide. It may be mentioned that the All-India Demand had crossed 200 GW during 2021 and 2022 and a comparatively harsher summer is expected this year which will push up the weather beating load in the country. Keeping these aspects in view and to meet the increased power demand smoothly in the upcoming months ahead, following preparatory measures has been identified in line with directives by CEA:

- 1. Generating stations should build up coal stocks.
- 2. Hydro Generators are requested to plan their schedule for the summer season and avoid spillage to manage the summer load.
- 3. SLDCs should remain in high state of alert, particularly in case of forecast of an imminent cyclone / thunderstorm / heavy rainfall.
- 4. All constituents must manage their demand by proper utilization of intra state generation and by strictly maintaining their drawl as per their schedule. RLDC/SLDCs need to monitor closely and SLDCs should maintain their drawl from the grid as per the schedule at all points of time.

- 5. Deferment of planned shutdown of generating units will be considered if necessary & critical transmission corridors will be monitored closely & planned shutdowns of the same may be deferred as per system conditions.
- 6. Thermal units, which are under reserve shutdown, should be kept in readiness for operation at a short notice period.
- 7. All protection systems including SPS, islanding schemes and Automatic Demand Management Schemes (ADMS), etc. need to be checked by the concerned utilities for their healthiness & proper functionality.

Hence, all the NER constituents are requested to take the above-mentioned steps to maintain smooth supply of power to the consumers during summer/monsoon season.

The sub-committee may deliberate.

C.8. Tripping of 400 kV Palatana-Silchar-1 and 400 kV Palatana-Silchar DC on 4th and 9th March'23

S. No.	Element Name	Tripping Date and Time	RELAYINDICATION_A	RELAYINDICATION_B
1	400 kV Palatana - Silchar 1 Line	04-03-2023 19:55	Over Voltage started, which protection issued trip not concluded	DT received
2	400 kV Palatana - Silchar 1 Line	09-03-2023 18:36	DT send	DT received
3	400 kV Palatana - Silchar 2 Line	09-03-2023 18:36	DT send	DT received

As per DR output from Silchar, there was no fault on the system. The line tripped from Silchar end on DT signal received. As per FIR submitted by OTPC, DT signal was sent from Palatana end. However, no cause of tripping was intimated.

OTPC is requested to update the root cause of DT signal send issue and its remedial measures taken to the forum.

C.9. Outage of Important 400 kV bays at Palatana, OTPC:

GT-1 & Silchar 1 Tie Bay is under outage from 31/12/2022.

GT-2 & 400/132 kV ICT 2 Tie Bay is under outage from 10/02/2023

Palatana is requested to furnish the timeline for restoration of the above mentioned bays for maintaining reliability and security in NER Grid and expedite the same for meeting the increased power demand smoothly in the upcoming months ahead.

The sub-committee may deliberate.

C.10. SPS Review during 58th PCC meeting held on 14th March'23

NERLDC delivered a brief presentation about the SPS schemes of NER and SPS related to Bangladesh in the 58th PCC held on 14th Mar 2023 for review. NER Stakeholders are requested to share their comments, if any on the SPS schemes. The updated SPS list is as shown:

SPS	S within the region	
SI.		
No	SPS Name	Remarks
	SPS related to tripping of 400 kV Palatana-	
1	Silchar D/C when both modules of	To be kept in service
	Palatana in service.	
		In the present scenario i.e. after
		commissioning of 400 kV Silchar-Misa DC
	SPS related to reverse power flow more	and 400 kV Silchar-Imphal-New Kohima-
2	than 60 MW from LV to HV side of	Mariani-Misa link flow from LV to HV side
	400/220 kV Azara ICTs	of 400/220 kV Azara ICT is not observed.
	400/ 220 KV Azara 1013	Also, NERLDC informed that this SPS has
		not operated till date.
		This SPS is to be discarded/removed
		MePTCL informed that 25 MW load
		shedding is common for both tripping of
3	SPS related to tripping of 132 kV Umiam	single ckt as well as tripping of Double ckt.
	Stg-I to Umiam St-III D/C lines	SPS related to tripping of single ckt is
		required till Misa- Kopili- Khandong link is
		restored and SPS related to tripping of

		Double Ckt is to be kept in service in all
		cases.
	SPS: When 220kV BTPS Salakati D/C gets	
4	overloaded or in case of outage of one	To be kept in service till reconductoring of
4	circuit the other circuit gets overloaded i.e	220 kV BTPS - Salakati D/C is completed
	loading greater than 600A)	
5	SPS associated with generation evacuation	To be kept in service
	from BgTPP.	To be kept in service
6	SPS associated with generation evacuation	To be kept in service
	from TGBPP, Monarchak	To be kept in service
7	SPS related to Outage of 220 kV BTPS -	To be kept in service
,	Rangia I & II	To be kept in service
8	SPS related to the tripping of Bus Reactors	To be kept in service
	at 400 kV S M Nagar (ISTS)	To be kept in service
9	SPS related to the tripping of Bus Reactors	To be kept in service
	at 400 kV P K Bari (ISTS)	To be Rept III service
10	SPS related to the tripping of Bus Reactors	To be kept in service
	at 400 kV Imphal (PG)	TO BE REPT IT SELVICE

SPS related to Bangladesh

		May be kept in On condition and reviewed
		after commissiong of:
		1. Commissioning of Surajmaninagar –
	SPS-2(Outage of 400kV Palatana -	Monarchak 132kV D/c line.
	SMNagar line charged at 132kV)	2. Reconductoring of 132 kV-
1	SPS Action: Entire load disconnection of	Surajmaninagar (ISTS)-
	South Comilla by way of tripping	Surajmaninagar(TSECL) with HTLS
	of 132kV SMNagar-South Comilla D/C	conductor
		3. Reconductoring of 132 kV-
		Surajmaninagar (ISTS)-Budhjungnagar
		lines with HTLS conductor
	SPS-3(Outage of one circuit of 400kV SM	To be discussed in OCC Meeting with
2	Nagar South Comilla D/C(charged at	To be discussed in OCC Meeting with
	132kV) SPS Action: 30MW load	Bangladesh

	disconnection at South Comilla area of	
	Bangladesh followed by shifti1221	
	ng of the load to main grid of Bangladesh	
		May be kept in On condition and reviewed
		after commission of:
		1. Commissioning of Surajmaninagar –
		Monarchak 132kV D/c line.
	SPS-4(Outage of both 400/132kV	2. Reconductoring of 132 kV-
	2x125MVA ICTs at Palatana) SPS Action:	Surajmaninagar (ISTS)-
3	Entire load disconnection of South Comilla	Surajmaninagar(TSECL) with HTLS
	by way of tripping of 132kV SMNagar-South Comilla D/C	conductor
		3. Reconductoring of 132 kV-
		Surajmaninagar (ISTS)-Budhjungnagar
		lines with HTLS conductor

New SPS

SI.		
No	SPS Name	Remarks
1	SPS related to secure & reliable operation of Leshka HEP	MePGCL informed that M/s Hitachi has responded to them and has required for schematic and other documents for providing the quotation. MePGCL is compiling the same. Also, the DPR for installation of TLSA and Leshka SPS is to be kept separate.
2	SPS related to prevention of cascading tripping in Assam power system (Upon tripping of either 220 kV Misa-Samaguri DC or 220 kV Azara-Sarusaji DC)	The Scheme is based on hardware logic-based tripping. POWERGRID suggested that analog based tripping from BCU can also be explored. AEGCL informed that they prefer hardware-based logic but the same will be discussed with higher management.

C.11. Long Outage of 132KV Agartala-RC Nagar-1:

132KV Agartala-RC Nagar-1 line is under continuous shutdown since 18-12-2022 due to severe SF6 leakage from CB at RC Nagar end. Due to the non-availability of ckt-1 the major part of the generation of RC Nagar gets evacuated through ckt-2 to the major load areas of Agartala and SM Nagar. With the onset of summer, the drawl of Bangladesh has crossed 160 MW in the month of March, 2023. Most of the Bangladesh load is catered from the generation of Palatana, RC Nagar & internal generations of Tripura through 132KV SM Nagar-SM Nagar, 132KV SM Nagar-Agartala & 132KV Palatana-SM Nagar lines.

In the recent past, it is observed that due to the increase in Bangladesh drawl, 132KV SM Nagar-SM Nagar loading has crossed 85MW in the evening peak hours. As such tripping of 132KV RC Nagar-Agartala ckt-2 may lead to tripping of 132KV SM Nagar-SM Nagar line further leading to Grid disturbance in Tripura & Bangladesh. To avoid any untoward incident considering N-1 contingency of either of 132KV Agartala-RC Nagar-2 & 132KV SM Nagar-SM Nagar line generation backdown may need to be imposed on AGTCCPP & Tripura own generation in the coming days.

Hence AGTCCPP is requested to restore 132KV RC Nagar-Agartala ckt-1 on priority for secure & reliable supply of power in Tripura and Bangladesh system.

The sub-committee may deliberate.

C.12. Near miss incident in Upper Assam are due to non-coordinated Switching of Intra state grid element.

Near miss incident has occurred in upper Assam area on 22-02-2023 due non-coordinated switching of Transmission line, which could have emerged as a grid disturbance. The Sequence of events for the incident are as follows.

- 1. 220kV-AGBPP-Mariani (As) was under Planned shutdown from 11:16 Hrs of 22-02-2023.
- 2. At 23:03hrs 220 kV Mariani Amguri line tripped on distance protection.
- 3. At 23:22hrs 132kV Lakwa Mariani line tripped on distance protection.
- 4. Due to tripping of 132kV Lakwa Mariani line the power flow reached around 95MW on 132 kV Nazira Teok T/L, immediately NERLDC instructed Assam to reduce their own generation and requested AGBPP to generate as per schedule.

- 5. However, at around 23:24 Hrs Assam hand tripped 132 Kv Nazira Teok T/L without intimating NERLDC which led to overloading of 220kV-AGBPP-Mariani (PG) T/L (286MW), causing a near miss incident in Upper Assam area.
- Generation reduction in AGBPP & LTPS was observed at around 23:40 Hrs & subsequently around 00:08 Hrs 132kV Lakwa – Mariani & 132 Kv Nazira – Teok lines were charged.
- 7. Combined effect of generation reduction by Assam, AGBPP & charging the above two lines, led to reduction in loading in 220kV Mariani (PG) Kathalguri T/L to 139MW.

Hence all constituents are requested to remain proactive to avoid such incidents.



Fig: Sequence of events

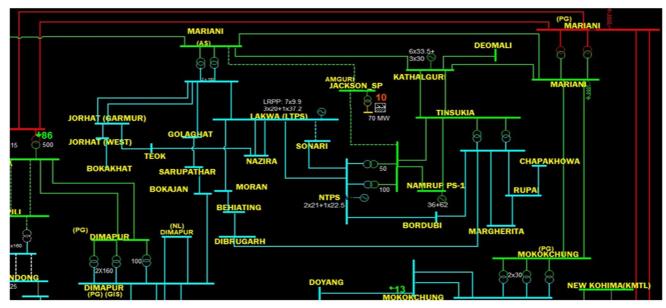


Fig: Upper Assam SLD

C.13. Availing of Shutdown without approval of competent authority

400Kv Silchar-Misa-2 was under shutdown from 10-March-23 for permanent restoration of 400kV Silchar – Misa D/C Line which earlier was charged through ERS (availed by Indigrid). The shutdown was restored on 18-March-23 at 20:36 Hrs. While charging the above line, main bay of 400 kV Silchar-Misa-2 at Silchar was not taken into service as the bay was taken into shutdown (By Powergrid) since 10th March for attending CB Marshalling box. However, no prior intimation/approval was accorded from competent authority for the work. But the matter was intimated to NERLDC through mail dated 20-March-2023. The shutdown of the bay is yet to be returned (expected on 31-March-2023) reducing the reliability of the system.

This is considered to be a violation of grid code. Powergrid is requested to refrain from such practices in future.

D. ITEMS FOR STATUS

D.1. Implementation of projects funded from PSDF:

The status as informed in 199thOCC:

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. Remainin g part of final 10% to be disbursed ASAP.	To reply to TESG 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. 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	Yurembam-III to be submitted by

				for IT portion after completion of 3rd milestone. 30% to be disbursed for Meter, AMR portion	
	33kV System Integration with SLDC		In tender	ring stage	
	Reliable Communication s for grid connectivity		In tender	ring stage	
Tripura	Completed. Final UC submitted on 04 th May'22.	Final 10% requisition submitted.	Not relevant in present scenario with commissionin g 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.	1	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. Communicati on pending.	All works except OPGW done

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

SI. No	Element	Owner	Status as informed in the 199 th OCCM	Latest Status
1	132kV Mariani – Mokokchung (<i>out since</i> <i>April'2008</i>)	AEGCL	Non clearance due to persisting funding issue	
3	132kV Roing-Pasighat (charged through ERS tower	NERTS	1st tower by April'23 while 2nd tower requires tendering, tentative completion by June'23	
4	220kV Misa-Kopili D/C, 220/132kV ICTs at Kopili, 132kV Khandong -Kopili D/C(out since Oct'19)	NEEPCO/ NERTS	Refer to item B.8	
5	132kV Srikona – Panchgram	AEGCL	Tender floated on 21.11.2022, Under evaluation	
6	400kV Imphal - Thoubal-I and 315MVA 400/132kV ICT at Thoubal	MSPCL	RoW, litigation pending in court.	
7	63MVAR Bus Reactor at Byrnihat to be replaced with 80MVAR Reactor	MePTCL	Logistics issue. Under process	
9	400kV Silchar-Misa ckt DC (permanent restoration)	NER-II TL	Work near to completion. Tentative completion by March'23	
10	LR- BNC at Balipara ss (50MVAR, 400kV)	PGCIL	Expected revival by April'23	

D.3. Status of commissioning for upcoming projects:

SI. No	Name of the element	Utility	Status as informed in 199 th OCC meeting	Latest Status
1	132kV Monarchak- Surjamaninagar	TSECL	July'23	
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-2 ckt 2	AEGCL	2 nd Bay at Balipara charged on 20th Feb'23. NERTS to	

			0.000001-1-1-1-1	
			complete bay side work at Sonabil and line side work. Tentative completion by March'23	
4	Upgradation of 132kV Lumshnong – Panchgram line	MePTCL	Upgradation work to be taken after 15 th March	
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	Requetse has been made to forest department of Arunachal Pradesh for clearance of thick vegetation/trees in the Deopani Reserve Forest. Support requested from NERPC	
8	Re-conductoring 220kV BTPS-Salakati D/C	NERTS	March'23	
9	420kV 80MVAR Bus Reactor	NEEPCO	Transportation and logistics issue, by Dec'23	
10	220kV Killing – Mawngap	NERPSIP	March'23 subject to resolution of long pending RoWs in Ri- Bhoi and East Khasi Hills district.	
11	220kV Samaguri – Mariani-I	AEGCL	FC for Samaguri- Khumtai section is still awaited.	
12	Reconductoring of 132kV UmiamStg-III to UmiamStg-I by HTLS	MePTCL	CT replacement 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	
14	220kV AGBPP -Namsai D/C	ТВСВ	Tentative completion by Oct'25	
15	Upgradation of 132kV Surjamaninagar- Surjamaninagar(ISTS),	TSECL	New tender has been floated for joint	

Sake Stonyungnagar Sake St		1221// Dadhiwaraara		Venture of DCCII	<u> </u>
P.K. Bari-Ambassa, 132kV P.K. Bari-P.K. Bari(ISTS) LILO of 132kV Leshka-Khliehriat-I at Mynkre and Mynkre SS and 33kV downstream at Mynkre. 16 and Mynkre SS and 33kV downstream at Mynkre. 17 220kV Tinsukia-Behiating D/C LILO of 132kV Kamalpur-Sishugram at Amingaon 220kV Ramalpur-Kamakhya& 132kV Kamalpur-Sishugram at Amingaon 220kV Rangia - Amingaon D/C and 220/132kV 2x160MVA Amingaon S/S 132kV Renpapar-Tamenglong and 132/33kV 4x6.67MWA at Tamenglong at Manipur 21 132/33kV 2x20MVA Gamphazol at Manipur 22 1 132/33kV West NERPSIP Dec; 22 Phaileng S/S at Mizoram 132/33kV 2x12.5MVA Marpara S/S at Mizoram 132kV Lungsen-Chawngle S/C at Mizoram 132kV Chawngle - S. Bungtlang S/S at Mizoram 132kV Chawngle - March'23 Subject to Row Clearance in Pukzing village in Manit district. March'23 March'23 March'23 March'23 March'23 March'23 March'23 March'23 Subject to Row Clearance in Pukzing village in Manit district. March'23 March'23 LILO of 132kV Woha - Ready for charging.		132kV Bodhjungnagar-		venture of PGCIL	
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P.K. Bari(ISTS)					
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Khliehriat-I at Mynkre and Mynkre Ss and 33kV downstream at Mynkre.					
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17		33kV downstream at			
17	L				
17	47	<u> </u>	NERPSIP	WIP-March'23	
LILO	1/				
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				<u> </u>	
Kohima at 132/33kV NERPSIP	29			Ready for charging.	
		Kohima at 132/33kV	NERPSIP		

	New Kohima at Nagaland			
30	132kV Wokha- Zunheboto – Mokokchung at Nagaland	NERPSIP	March'23	
31	132kV Tuengsang – Longleng at Nagaland	NERPSIP	Tuengsang substation upgradation under tendering.	
32	132/33kV Amarpur S/S at Tripura	NERPSIP	March'23	
33	132/33kV Manu(new) S/S at Tripura	NERPSIP	March'23	
34	132kV Dharmanagar- Kailashor	NERPSIP	March'23	
35	132kV Ziro-Yazali and 132/33kV Yazali S/S	POWERGRID- Comprehensive	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.	
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.	
38	132kV Khonsa -Deomali and 132/33kV Khonsa S/S	POWERGRID - Comprehensive	Khonsa substation completed.	
39	132kV Miao – Namsai and 132/33kV Miao S/S	POWERGRID - Comprehensive	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 Holongi substation completed.	
41	Lower Subansiri HEP	NHPC	Unit 1 and 2 by June'23	
42	400kV Lower Subansiri- BNC line1	PGCIL	Anti theft charging on 24/02/2023. Completion by March 2023.	
43	400kV Lower Subansiri- BNC line2	PGCIL	June'23	

44	Conversion of MT to DM at (i)132kV Khliehriat, (ii)132kV Badarpur, (iii)132kV Nirjuli, (iv) 132kV Imphal	NERTS	Nirjuli- March'23 Imphal- April'23 Badarpur & Khliehriat - In tendering stage	
45	Construction of Pare- N.Lakhimpur DC along with LIO at Nirjuli	Sterlite(TBCB)	Mid-April'23. Shutdown of PLHPS-Lekhi approved till 5 th April to facilitate the work	
46	LILO of BNC-Chimpu ckt II at Gohpur	Indigrid	Technical work completed. Signing of supplementary- connection agreement remaining	
47	220kV New Shillong- NangalBibra(ISTS 220/132kV) TL	MEPTCL	Survey works underway	
48	400kV Bongaigaon- Nangalbibra (ISTS) DC(to be charged at 220kV initially)	Sterlite	By 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

			ns.	e level	"	, Ke	Ilized		of Lines (as n 199 th OCCM)
	ISTS S/s	State	Voltage ratio, Trans Cap	Down- stream Voltage (kV)	Unutilized bays	Status of ISTS bay	STU Lines for unutilized bays	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	survey	By Jan'25
2	New Kohima (TBCB)	Naga Iand	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)	Megha Iaya	220/132k V, 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

SI. No.	Substation/Location	Transformat ion Capacity/ Element	Date of Award	Completion Schedule
Α	Assam (to be implemented	ed by AEGCL)		
I	Rangia	400/220kV, 2x500MVA	 EPC Contract Award is Tentatively scheduled in the early half of Dec'2022. Master Plan submitted for approval. Tender under preparation 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	 EPC Contract Award is expected byDec'2022. Tender preparation is completed and is to be reviewed by AIIB 	Mar'26 (36 months form date of Award)
11	Khumtai	400/220/13 2kV, 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

Ш	Upgradation of Gohpur S/s from AIS to GIS	-	1. Notice of Award has been issued on 8th june 2022 to M/S Sumaja Electro infra Pvt Itd.	June'2025
a)	2 no. 132kV GIS line bays at Gohpur for termination of LILO of one circuit of BiswanathChariali – Itanagar 132kV D/c ine (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

SI. No.	Substation/Location	Transformation Capacity/ Element	Date of Award	Completion Schedule
В	Tripura (to be impleme	nted 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 lineatSurajmaninagar (TSECL) S/s	400kV D/c	All works except 400kV termination at Surjamaninagar (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
С	NEEPCO (to be implement	ented by NEEPCO)		
I	Extension works at Ranganadi HEP end			
a)	420kV 80MVAR Bus Reactor at Ranganadi Generation Switchyard		LOA on 11.01.2022	Dec'23 (Logistics and Transportation issue)
П	Extension works at Pare HEP 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 about 2.2km & the cost estimates have been	To be completed by NEEPCO by April2023 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 equivalentto ACSR Zebra) along with modification of 132kVbay equipment at Pare HEP	132kV	received by NEEPCO. Upon approval of the same, work shall be awarded. Expected to be awarded shortly.	

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

SL. No.	Item for Discussion	Status as per 199thOCCM	Latest Status
1.	Introduction of SPS in Leshka S/Sn of Meghalaya (Agenda No. C4 of 189 th OCCM)	As updated in 58th PCC, communication has resumed with M/s Hitachi and the later has requested for configuration details from MePGCL and then cost estimate will be prepared	
2.	Voltage and MVAR issues at 400kV Kameng S/Sn (Agenda No. C7 of 189 th OCCM)	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	
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	To rectify the CB, gasket replacement work is being done and expected revival date is 5th Feb'23	

14	48V System reliability at Pasighat end	Wat Ci i 25	
	L /LUN/ Syletom reliability at	I Marchツス	
		March'23	
	(C.15 of 194 th OCC) & (C.8 of 197 th OCC)		
13	issues at 132kV Tipaimukh S/s		
	PLCC & protection related	PLCC engineer to visit the SS. (MSPCL)	
	(C.12 of 194th OCCM)		
12	kV Silchar-Byrnihat T/L		
10	100kV Silchar Azara T/L & 100	delivery by June'23	
	Status of Installation of TLSA in	LoA placed, expected completion of the	
	(C.10 of 194 th OCC)	of work remaining	
''	Assam Power System	AeGCI scope of work done, Sterlite scope	
11	disturbance in Gohpur and radially connected areas of	lines bays commissioned from AEGCL end.	
	Occurrence of Multiple grid	SEM meters provided by PGCIL, both	
	(C.6 of 194th OCCM)	0514	
10	Main Bay at OTPC Palatana	replaced soon. WIP	
	Restoration of 400 kV STG-1	OEM visited the site, faulty cables to be	
	(B.18 OF 194 TH OCC)		
	Substation)		
9.	Substation to Zhadima 220 KV		
	Zhadima 400/220 KV GIS	mistaliation in Norillia -Zhaulilia Ellie.	
	Transmission line (from	installation in N Kohima -Zhadima Line.	
	Tower schedule of 220 KV D/C	Will be provided before OPGW	
0.	area of Assam Power System (C.18 of 191st OCCM)	Risk reduction Works, 2022-2023, yet to be approved	
8.	Grid Disturbance in Dhaligaon	Revised estimate submitted to Disaster	
	(C.14 of 191st OCCM)	Davisad actimate submitted to Disaster	
	Rangia- Motonga		
7.	Auto-Reclosure for 132kV	March'23	
	Implementation of Single Phase	Shutdown applied for the month of	
	Item B.24 of 190 th OCCM.	Chutdown applied for the marks of	
	other relevant details.)		
0.	the status of CVT procurement and		
6.	AGBPP end. (NEEPCO to update		
	AGBPP – Tinsukia 1 & 2 at	August'2022.	
	Synchronization issue of 220kv	Tender floated in the month of	
	(Agenda B.15 of 188th OCCM)		
	(NEEPCO) – By Mar'22		
	of Line Differential Relays		
	By Mar'22 (f) Procurement and installation		
	POWERGRID Comprehensive –		
	(e) Stringing of OPGW by		
	By Mar'22		
	vegetation clearance (NEEPCO) –		
	(d) Infringement checking and		
	– By Mar'22		
	of defective insulators (NEEPCO)		
	(c) PID testing and replacement		
	By Mar'22		
	end to be repaired (NEEPCO) –		
	(b) Defective Relays at Khupi		

	(C.16 of 194th OCC)		
15.	Construction of Anchor tower at location 433 by PGCIL and reconductoring of 220kV Mariani-Mariani SC with Moose conductors(B.16 of 196th OCCM)		
16.	Early Restoration of Y-pole Circuit Breaker at AGTCCPP for 132 kV Agartala I Line (Agenda C.11 of 198th OCCM)	To rectify the CB, gasket replacement work is being done and expected revival date is 5th Feb'23. WIP	
17.	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. Status of the same may be provided by NEEPCO	
18.	Implementation of Bus Bar Protection at 132 kV Kahilipara (AEGCL) Substation (C.8 of 196 th OCCM)	As per minutes of 196th OCCM, AEGCL to expedite the installation and update latest status.	
19.	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)	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).	
20.	Voltage discrepancy at 400kV Mirza S/S (AEGCL, C.4 of 199th OCC)	To rectify the CB, gasket replacement work is being done and expected revival date is 5th Feb'23	
21.	TLSA installation on 132kV Leshka-Khleihriat DC	DPR prepared, to be submitted by MEPTCL, for PSDF sanction	

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 199th OCCM, 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

NERTS may update

E.2. Issues regarding SEM Data Processing:

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 drawal. However, SEM data from the said substation is not being received.

In 199th OCCM, SLDC AEGCL updated that procurement of new laptop is under process and new issues have emerged with the DCD, rectification underway.

Status may be reviewed.

Non-receipt of SEM data from 132 kV Kahilipara (As) Substation:

Weekly SEM data of 132 kV Kahilipara (As) Substation is important for accounting of Assam drawal. However, SEM data from the said substation is not being received. Issue with CMRI charger has been reported by the concerned substation.

Status may be reviewed.

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 drawal. 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.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-

C No			METER	TIME
S.No ENTITY		FEEDER NAME	NO	DRIFT
				Display
1	ASSAM	220 kV TINSUKIA END OF KTG FDR-I	NP-9654-A	not
				functional

2	ASSAM	220 KV TINSUKIA END OF KATHALGURI	NP-9658-A	16 mins
		FDR-II		
3	ASSAM	132 kV UMRANGSOO END OF KHLEIRIAT	NP-5290-A	16 mins
		(PG)	141 027071	
4	ASSAM	132 kV UMRANGSOO END OF HAFLONG	NE-0019-	4 mins
7.007.11			А	
5	ASSAM	132 kV RANGIA END OF MOTONGA	NP-9669-A	5 mins
6	MIZORAM	132 kV KOLASIB END OF AIZAWL(PG) FDR	NE-0087-	4 mins
		102 KV KOZ/10/18 ZIVB GI / 112/10/2(1 G) 1 BK	А	
7	POWERGRID	400/132 kV SILCHAR ICT-3 (HV SIDE)	NP-6946-A	33 mins
8	POWERGRID	400 kV BONGAIGAON END OF	NP-9477-A	7 mins
		NTPC_BgTPP-2	141 71777	

Note: Out of 90 Locations, appx. 35-40 Nos. of locations send SEM Time Drift Report. *Status may be reviewed.*

Note: Time drift report from the following locations are not being received.

S.No	ENTITY NAME	LOCATION/ SUBSTATION
1	POWERGRID	BADARPUR
2	POWERGRID	HAFLONG
3	POWERGRID	MARIANI
4	POWERGRID	SALAKATI
5	POWERGRID	DIMAPUR
6	POWERGRID	NIRJULI
7	POWERGRID	KUMARGHAT
8	POWERGRID	BALIPARA
9	POWERGRID	AIZAWL
10	POWERGRID	MELRIAT
11	POWERGRID	ZIRO
12	ASSAM	MARIANI
13	MIZORAM	LUNGMUAL

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.

In 199th OCCM, DoP Ar. Pradesh and SLDC Tripura assured the forum that they will start providing the required data regularly to NERLDC. However, data from DoP, Ar. Pradesh is yet to be received by NERLDC and data that has been received from SLDC Tripura is not in accordance with MoP order.

Annexure-I

<u>Details of Under Utilised power of Generating Station (CGS, ISGS, State Gencos and IPPs)</u> (More than 50 MW Avg)

	Generating	April	May	June	Remarks
	Station				
		NTPC KUDGI STPS (56 MW)	(1)NTPC RSTPS Stage 1	(1)NTPC RSTPS Stage 1	
			&2 (130 MW), (2))NTPC	&2 (74 MW), (2) NTPC	
			SIMHADRI Stage 2 (108	SIMHADRI Stage 2 (55	
			MW) (3) NTECL	MW), (3) NTECL	
			VALLUR TPS (149 MW),	VALLUR TPS (92 MW),	
			(4) NTPL (166 MW), (5)	(4) NTPL (100 MW), (5)	
	CCCATCCC		NTPC SIMHADRI Stage 1	NTPC SIMHADRI Stage 1	
	CGS/ISGS		(118 MW) (6) NTPC	(114 MW), (6) NTPC	
			KUDGI STPS (761 MW)	KUDGI STPS (573 MW)	Surplus Gencos as per
		(1) DrNTTPS (VTPS) (1452 MW), (2)	(1) DrNTTPS (VTPS)	(1) DrNTTPS (VTPS)	data provided by RPCs
		RTPP (1148 MW)	(1299 MW), (2) RTPP	(1269 MW), (2) RTPP	on the basis of 2022-2023
SR		,(3)SDSTPS(Krishnapatnam) (745	(1054 MW)	(1066 MW)	
		MW), (4) HNPCL(415 MW), (5)	,(3)SDSTPS(Krishnapatna	,(3)SDSTPS(Krishnapatna	
	State Gencos	NCTPS-1 (501 MW), (6) NCTPS-2 (767	m)(647 MW), (4) HNPCL	m)(407 MW), (4) HNPCL	
		MW), (7) TTPS (479 MW), (8) MTPS-1	(535 MW), (5) NCTPS-1	494 MW), (5) NCTPS-1	
		(684 MW), (9) MTPS-2 (412 MW), (10)	(460 MW), (6) NCTPS-2	(393 MW), (6) NCTPS-2	
		TAQA (241 MW)	(576 MW), (7) TTPS	(376 MW), (7) TTPS (652	
			(398MW), (8) MTPS-1	MW), (8) MTPS-1(610	
			(565MW), (9) MTPS-2	MW), (9) MTPS-2 (396	
		Range – (241 MW to 1452MW)	(383 MW), (10) TAQA	MW), (10) TAQA (200	
			(208 MW), (11) SEPC (256	MW), (11) SEPC (289	
			MW)	MW)	
			Range – (208 MW to 1299MW)	Range – (200 MW to 1269MW)	

IPPs	AP SEIL (204 MW)	AP SEIL (201 MW)	AP SEIL (137 MW)	
_	ANDHRA PRADESH (84 MW),	ANDHRA PRADESH (469	ANDHRA PRADESH (576	_ ` _
States	PUDUCHERRY (23MW)	MW), PUDUCHERRY(2 MW), KARNATAKA (500	MW), PUDUCHERRY 19MW), KARNATAKA	,2023)
		MW), TELANGANA	(500 MW), TELANGANA	
		(1868)	(571 MW), KERALA (510	
			MW)	
	KARNATAKA (-503 MW), KERALA(-	KERALA (-304), TAMIL	TAMIL NADU (-466 MW)	Deficit (as per LGBR
	235 MW), TAMIL NADU (-4400 MW),	NADU (-277)		,2023)
	TELANGANA (-2268 MW)			
Total in SR	-7299 MW Deficit in April	2258 MW Surplus in	1710 MW Surplus in June	
		May		

File no. CEA-PL-11/37/1/2018-IRP Division / 12 1 - 125

Government of India Ministry of Power Central Electricity Authority

> Sewa Bhawan, RK Puram, New Delhi, 17th March, 2023

To.

Member Secretaries (All RPCs), CEA

Sub: - Requirement of data from States for implementation of Resource Adequacy Framework- Reg. Sir,

Ministry of Power has notified the Electricity (Amendment) Rules, 2022, which inter alia, aims to implement Resource Adequacy (RA) Framework to ensure reliable supply of Electricity to the consumers across a broad range of system operating conditions.

As per Rule 16 (i) of the Electricity (Amendment) Rules, 2022 CEA has to issue guidelines for assessment of resource adequacy during the generational and operational planning stages. Accordingly, CEA has prepared draft Resource Adequacy Guidelines, which are currently in approval stage at Ministry of Power. As per the draft Resource Adequacy Guidelines published in September 2022, Central Electricity Authority is supposed to prepare Long Term-National Resource Adequacy Plan (LT-NRAP). For preparing the LT-NRAP State-wise information viz. Demand, Installed Capacity, Generation (both RE and conventional), financial data etc. (As per the attached format) may be required. We have already requested states to furnish the data in the attached format vide email dated 15.03.2022.

In view of the above, it is kindly requested to coordinate with States of your respective regions for timely collection of data pertaining to Resource Adequacy studies.

Yours Sincerely,

(Ammi Ruhama Toppo)

Chief Engineer (IRP)

Enclosure: Data format