



सत्यमेव जयते

Agenda for 202nd OCCM



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

North Eastern Regional Power Committee

Agenda for the

202nd Operation Coordination Sub-Committee Meeting

Time of meeting : 10:00 Hrs.

Date of meeting : 18-05-2023 (Thursday)

Venue : “Hotel Soolin Grand, Guwahati”

A. CONFIRMATION OF MINUTES

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

The minutes of 201st meeting of Operation Sub-Committee held on 25th April 2023 at Hotel the Lily, Guwahati was circulated vide letter No. NERPC/SE (O)/OCC/2021/515-553.

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

Utility	Agenda Item	Recorded in MoM	Comments (To be modified)
MePTCL	C.9	MePTCL provided in principle approval for conversion of 132 KV Khliehriat 2 bay to GIS under ISTS. However, final approval will be provided after analyzing financial implications of handing over the ownership to PGCIL and obtaining administrative approval	MePTCL agreed in principle for conversion 132 KV Khliehriat 2 bay at 132 KV Khliehriat (PG) S/S to GIS. POWERGRID was enquired about the implications for conversion to GIS under ISTS as funding by MeECL might be a problem. It was informed that ownership and maintenance of the bay (which belongs to MePTCL) will be with the executing agency, i.e., POWERGRID. The line will, however, continue to be under MePTCL. Modalities in respect of operation and maintenance of the bays at both ends, associated financial implications and disposal of original bay equipment will be deliberated separately between CTU and MePTCL before a decision can be finalized.

Agenda for 202nd OCC Meeting to be held on 18th May 2023

MePTCL	C.11	MePTCL apprised the forum that the 220kV Killing-Misa D/C line has already been approved as Deemed ISTS line in the 17 th TCC/RPC meeting....	MePTCL apprised the forum that the 220kV Killing-Misa D/C line and LILO of 400 KV D/C Pallatana-Bongaigaon at 400/220 KV Killing S/S as ISTS lines have already been approved as Deemed ISTS line in the 17 th TCC/RPC meeting....
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The Sub-committee may confirm the minutes of 201st OCCM of NERPC with above modifications as observed by MePTCL.

B. FOLLOW UP AGENDA ITEMS

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

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

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	307.35	2	0.05	41
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.

The 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.

The sub-committee may deliberate

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

Transmission Utilities have submitted the outage data for the month of March, 2023. The attributability of outage of the said elements has been finalized by NERLDC and NERPC. The Availability percentage of the transmission elements of ISTS licensees for the month of March, 2023 is as follow:

SN	ISTS Licensee	Availability for March'23(%)
1	NETC	99.8390
2	KMTL	99.9737
3	NER-II TL	99.8844
4	PGCIL	99.7940

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 201st OCCM

Plant Name	Last testing date	Due date	Schedule of Testing as per 201 st 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	12.05.2023
Kameng HEP	**
Loktak HEP	16.12.2021	20.06.2022	Date to be finalized in consultation with NERLDC

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

**Regarding Kameng HEP, GM, NEEPCO intimated that M/s BHEL has still not responded to the concerns raised by NEEPCO regarding the changes in circuitry as proposed by M/s BHEL. The forum requested NERPC to write a letter to the OEM 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 three substations while yet to be enabled for other three substations

As updated in the 201st OCCM:

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 highlighted that event wise reports on operation of ADMS is not being received from any state except Assam. On few occasions, reports have been received from SLDC Meghalaya and SLDC Mizoram. He 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.

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 – Umiam	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 Mokochung 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 201st OCCM, NERLDC informed that ATC/TTC reports are being sent by all States except Arunachal Pradesh and Manipur. The forum once again requested all States to furnish the ATC/TTC reports to NERLDC on monthly basis.

The sub-committee may deliberate

B.8. Issues pertaining to Kopili & Khandong.

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
- Restoration of Jiribam -Haflong line
- Reconductoring of 132kV Lumshnong-Panchgram line
- Commissioning of 220kV Mawngap-Killing line

Status may be updated

B. Restoration works at Khandong and Kopili substations

Following the discussions in the 189th OCCM 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.

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

- 132kV Kopili-Khandong D/C
- 132kV Khliehriat-Khandong D/C
- 132kV Khandong-Umrangshu line

Status may be updated

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

NEEPCO is planning to re-commission and synchronize 1X25MW Khandong Stage-II unit soon. For reliable evacuation, any of the Khandong-Khliehriat 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 D/C or Kopili-Khandong D/C is required.

In previous OCC meetings following points were discussed

i) Regarding restoration of Jiribam-Haflong line, DGM, NERTS updated that the line is ready for charging which will be done after getting RIO clearance. He further added that RIO inspection is scheduled along with inspection of POWERGRID & NEEPCO assets at Khandong.

ii) Regarding Mawngap-Killing line, NERPSIP updated that the ROW issue at Nongpoh section was being taken up at the highest level in the government.

iii) Regarding revival schedules, GM, NEEPCO updated that Khandong stg II will come by 30th April'23 subject to RIO and FTC clearance, and Kopili 1st unit by 1st June'23 and 2nd unit by end of June'23.

iv) Regarding permanent restoration of Khandong-Khlieihriat ckt II, GM, NEEPCO updated that PLCC for Khlieihriat and Umrangshu feeder have been commissioned and data telemetry will be established in the next 3-4 days. Regarding OPGW connectivity of the Khandong station, DGM, NERTS updated that OPGW rerouting at Khandong substation will be done on 27th April '23 and there will be telemetry outage of the Umrangshu feeder.

v) Regarding restoration of Kopili-Khandong D/C, NERTS updated that procurement of SAS based panel from OEM is involved and the restoration work may go up to September'23.

vi) Regarding restoration status of 220kV Misa bays at Kopili, GM NEEPCO updated that bay equipment is ready, but cabling termination work is still left. He further added that restoration of 220/132kV ICTs has to be ensured by the PGCIL at the earliest so that reliable station and auxiliary power supply can be ensured through the 132/33kV SST and SAT.

vii) NERLDC and SLDC Meghalaya raised concern that restoration of Misa-Kopili-Khandong link in totality is essential for ameliorating the power supply scenario in Meghalaya, specially before the onset of next winter season.

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.

In the 200th OCCM, Director, NERPC stated that in the 24th NETeST 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.

The sub-committee may deliberate

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

Status as updated in the 201st OCC Meeting

Name of the state/utility	Submission of revised UFR list	Implementation of revised settings	Status of mapping
Ar. Pradesh	Submitted	Stg-1 (49.4Hz) implementation in new feeders. UFRs have been procured and the same have reached the site. Installation will be completed by 1 st week of May'23	Coordination with M/S GE is ongoing, tentative completion by May'23
Assam	Submitted	Installation Completed.	Done
Manipur	Not submitted	No extra shedding required only Stage upward revision to be done. ADMS and UFR feeder segregation to be done for Stage-I by next OCCM	To be done
Meghalaya	Submitted	17 out of 17 feeders completed. Forum requested to share the points with RLDC SCADA	Done
Mizoram	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	Completed

Tripura	Submitted	Stage-1(49.4Hz), Stage-2 (49.2Hz), Stage-3(49Hz) require installation of UFR. Stg I UFR installed	Mapping by May'23 for P K Bari and Ambassa. For Badarghat(33kV SS), mapping not possible as no RTU available
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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.

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 201st OCC meeting:

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

Regarding PFR testing at Palatana, OTPC intimated that a meeting was held with NERLDC on 4th April 2023 in presence of NLDC and testing agencies (M/s Solvina and M/s Seimens) regarding the additional software block which has been developed by

OEM (M/s BHEL) for injecting simulated frequency signals during the PFR Test. Further, OTPC highlighted that once the aforementioned logic block is approved, the same has to be configured in the machine Controller. In this regard, the OEM has stated that such configuration in the controller cannot be done online and hence requires the shutdown of the machine. OTPC stated that a meeting will be organized shortly with NERPC, NERLDC, NLDC, BHEL, Solvina, Seimens and OTPC to finalize the PFR testing procedure along with approval of the additional software logic block and utilization of the facilities available in controller for injection of simulated frequency signals in place of the external test kit of the testing agencies.

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 201st 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)	Feb-23 (LGBR)	Feb-23 (Actual)	Mar-23 (LGBR)	Mar-23 (Actual)	Apr-23 (LGBR)	Apr-23 (Actual)
Arunachal Pradesh	164.59	159	153.31	172	153.93	154.980
Assam	1550.00	1572	1680.00	1670.32	1885.80	2013.100
Manipur	239.00	225	227.00	212.32	208.06	212.700
Meghalaya	381.00	394	354.00	373.99	366.18	335.859
Mizoram	143.49	139	119.27	128.82	122.72	126.870

Nagaland	160.00	148	155.00	156.4	147.66	150.100
Tripura (exc. Bangladesh)	227.80	252	250.00	263.9	322.32	337.500
NER DEMAND (exc. Bangladesh)	2709.00	2801	2686.32	2915	3073.35	3332

PARTICULARS (Energy Requirement in MU as per LGBR vs Actual)	Feb-23 (LGBR)	Feb-23 (Actual)	Mar-23 (LGBR)	Mar-23 (Actual)	Apr-23 (LGBR)	Apr-23 (Actual)
Arunachal Pradesh	65.79	68.87	71.99	77.54	71.30	74.28
Assam	713.23	735.650	862.52	837.76	813.63	913.960
Manipur	88.92	78.24	79.03	81.08	77.94	75.32
Meghalaya	185.66	190.97	191.76	193.22	175.14	192.69
Mizoram	56.55	53.02	55.48	53.45	53.42	49.06
Nagaland	61.70	59.19	66.11	70.54	70.83	65.83
Tripura (excl. Bangladesh)	100.63	108.86	118.05	122.97	151.41	149.91
NER DEMAND (exc. Bangladesh)	1264.84	1295.493	1473.94	1437.192	1413.67	1521.775

The sub-committee may deliberate

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.

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.

In 201st OCCM, NERLDC stated that as updated by the IMD, the MoU has been signed from their end and the same is pending from Assam end.

After detailed deliberation, the forum decided that a special VC/online meeting will be held by NERLDC with the presence of all concerned States and stakeholders.

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 Sarusajai 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 previous OCC meetings, AEGCL updated that distribution feeders for disconnection of 20MW at Sarusajai/Kahilipara has been identified and logic is being finalized for tripping condition 1. AEGCL further informed that, in order to implement the SPS, some communication equipment would be required at Kahilipara. Regarding tripping condition 2, AEGCL agreed to implement the scheme without any modification and the work will start after obtaining their administrative approval.

In 201st OCCM, AEGCL updated that for tripping condition 1, administrative approval is awaited and for tripping condition 2, SPS will be implemented by May, 2023.

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-Tuensang-Mokokchung link is generally kept open from Kiphire end. Kohima S/S caters to the load of Capital area of Nagaland Power System; hence the availability of Kohima

S/S is very important. However, this area is prone to frequent grid disturbances due to its geographical location.

On 2nd Nov'22 at 13:52 hrs during the visit of Hon'ble President of India, Grid disturbance occurred in Kohima area of Nagaland Power System with a load loss of 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 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.

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.

NERLDC to present the results of system study for the alternate arrangement as suggested by Nagaland.

The sub-committee may deliberate

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 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.

In 201st OCCM, GM, NEEPCO updated that the matter is under consideration of DoP Arunachal Pradesh, however, Comprehensive Scheme (PGCIL) has not provided the timeline for construction and commissioning of the 132kV Kamba-Mechoka line.

Member Secretary, NERPC stated that a review meeting for NERPSIP and Comprehensive Scheme will be held on regular basis to monitor the progress of the projects under the schemes.

The sub-committee may deliberate

B.18. 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.

The sub-committee may deliberate

B.19. 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)

In previous OCC meetings, Member Secretary NERPC strongly urged the state utilities to provide required data for preparing Resource Adequacy Plan in the format as shared by NEPRC.

The sub-committee may deliberate

B.20. 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.

The sub-committee may deliberate

B.21. Methodology to determine the Ex-Bus calculation of 1x25MW Khandong Stage-II Unit after its synchronization to the grid.

1x25MW Khandong Stage-II Unit is expected to be synchronised at the end of this month. At present NEEPCO is in agreement with APDCL for drawing construction power for 4x50MW Kopili P.S and 2x23MW Khandong Power Station R&M activities. This construction power is being drawn through 7.5MVA, 132/33KV Station Supply Transformer installed at Khandong 132KV/33KV SY. The power is being distributed to Kopili PS & Umrongso Colony and Khandong PS construction activity through 33KV lines charged from 33KV PS-I & PS-II Lines and downstream network.

In view of the above, NEEPCO desires to device the methodology for calculation of Ex-Bus calculation after synchronization of the 1x25MW Khandong Stage-II Unit.

In 201st OCCM, the forum advised NEEPCO to convene a special meeting with the members from NERPC and NERLDC for deliberation and finalization.

NEEPCO may update.

The sub-committee may deliberate

B.22. Long Outage of 400/220 kV ICT-1 at Byrnihat S/S:

400/220 kV 315 MVA ICT-1 at Byrnihat is under outage since 13:32 Hrs of 02-02-2023 due to SF6 gas leakage in Y-phase line chamber on HV side of said ICT. The Outage of said ICT has decreased reliability of Meghalaya system considerably.

MePTCL is thereby requested to furnish the timeline for restoration of the aforementioned ICT for maintaining reliability and security of Meghalaya system and expedite the same for meeting the increased power demand smoothly in the upcoming months ahead.

In 201st OCC, MePTCL stated that consultation with the OEM and PGCIL, to rectify the issues related to the ICT, is underway and the same is expected to be restored by 15th May'23.

The sub-committee may deliberate

B.23. Upgradation of 132kV Badarpur & 132kV Khlerihat (PG) substations from single main and transfer bus scheme to double main bus scheme by converting from AIS to GIS

Upgradation of 132kV Badarpur & 132kV Khlerihat (POWERGRID) Substations from single main and transfer bus scheme to double main bus scheme by converting from AIS to GIS was approved in 23rd NERPC meeting

Subsequently agenda was discussed in 16th CMETS of NER wherein the project was approved in NERES XXI with Badarpur & Khlerihat (POWERGRID) S/s as Double Bus GIS.

In this regard, it is to mention here that at 132KV Khlerihat (POWERGRID) Sub Station, the ownership of 132kV Khliehriat (MeECL) # 2 Bay of 132kV Khliehriat (POWERGRID) – Khliehriat (State) # 2 Line lies with MeECL.

As the complete Khlerihat (POWERGRID) Station is to be upgraded to GIS, hence, 132kV Khliehriat (MeECL) # 2 Bay also need to be converted to GIS. Modalities in this regard viz. under ISTS or by MeECL may be deliberated.

In 201st OCCM, MePTCL agreed in principle for conversion 132 KV Khliehriat 2 bay at 132 KV Khliehriat (PG) S/S to GIS. POWERGRID was enquired about the implications for conversion to GIS under ISTS as funding by MeECL might be a problem. It was informed that ownership and maintenance of the bay (which belongs to MePTCL) will

be with the executing agency, i.e., POWERGRID. The line will, however, continue to be under MePTCL. Modalities in respect of operation and maintenance of the bays at both ends, associated financial implications and disposal of original bay equipment will be deliberated separately between CTU and MePTCL before a decision can be finalized.

MePTCL may update.

B.24. 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 Pallatana-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.

The sub-committee may deliberate

C. NEW AGENDA ITEM

Agenda from KMTL

C.1 Regional ERS

As per 192nd OCCM, KMTL wanted to know if any regional ERS system is available under NERPC. Referring to the recent flood situation in NE region, incidents causing damage to transmission assets is inevitable. To mitigate such risk, a regional ERS system might be available under NERPC in emergency. Member Secretary noted that previously regional ERS was abandoned as individual utilities required ERS. After detailed deliberation, it was decided that DPR would be prepared and referred to TCC/RPC.

Members may please deliberate.

Agenda from NERLDC

C.2 Overloading of critical transmission lines in Tripura system:

Overloading of transmission lines in Tripura system has become a cause of serious concern and a threat to grid security and reliability. In particular, 132 kV SM Nagar (Sterlite) - SM Nagar line and 132 kV PK Bari (Sterlite) - PK Bari line are getting critically loaded and experiencing significant over loading for prolong period of time causing vulnerability in the Tripura system. Few instances of overloading of these lines are tabulated below:

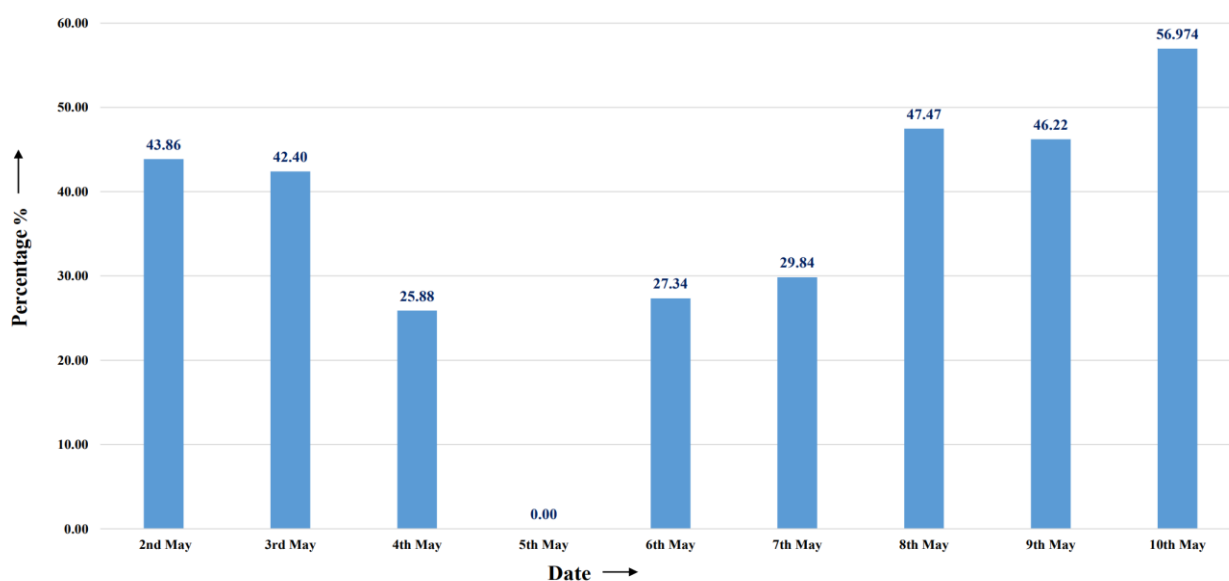
Date	Max. Loading of 132kV SM Nagar-SM Nagar line (in MW)	Time (in Hrs)	Max. Loading of 132kV PK Bari – PK Bari line (in MW)	Time (in Hrs)
02/05/2023	93.12	18:15	86.89	18:24
08/05/2023	90	13:00	81.79	18:11
09/05/2023	93.35	17:59	85.56	18:03

The issue of overloading of the aforementioned lines was also discussed in 189th OCC meeting, wherein Tripura was advised by the forum to limit their power export to Bangladesh to 160 MW till the completion of re-conductoring of 132 kV SM Nagar (Sterlite) - SM Nagar, 132 kV PK Bari – PK Bari (Sterlite), 132 kV SM Nagar-

Budjungnagar and 132 kV PK Bari – Ambassa lines with HTLS conductor. NERLDC has issued two letters in this regard to SLDC Tripura, these are enclosed as **Annexure C.2.1** and **Annexure C.2.2**.

Tripura is requested to take all necessary measures to strictly avoid any over loading of the above lines for safe, secure and reliable grid operation.

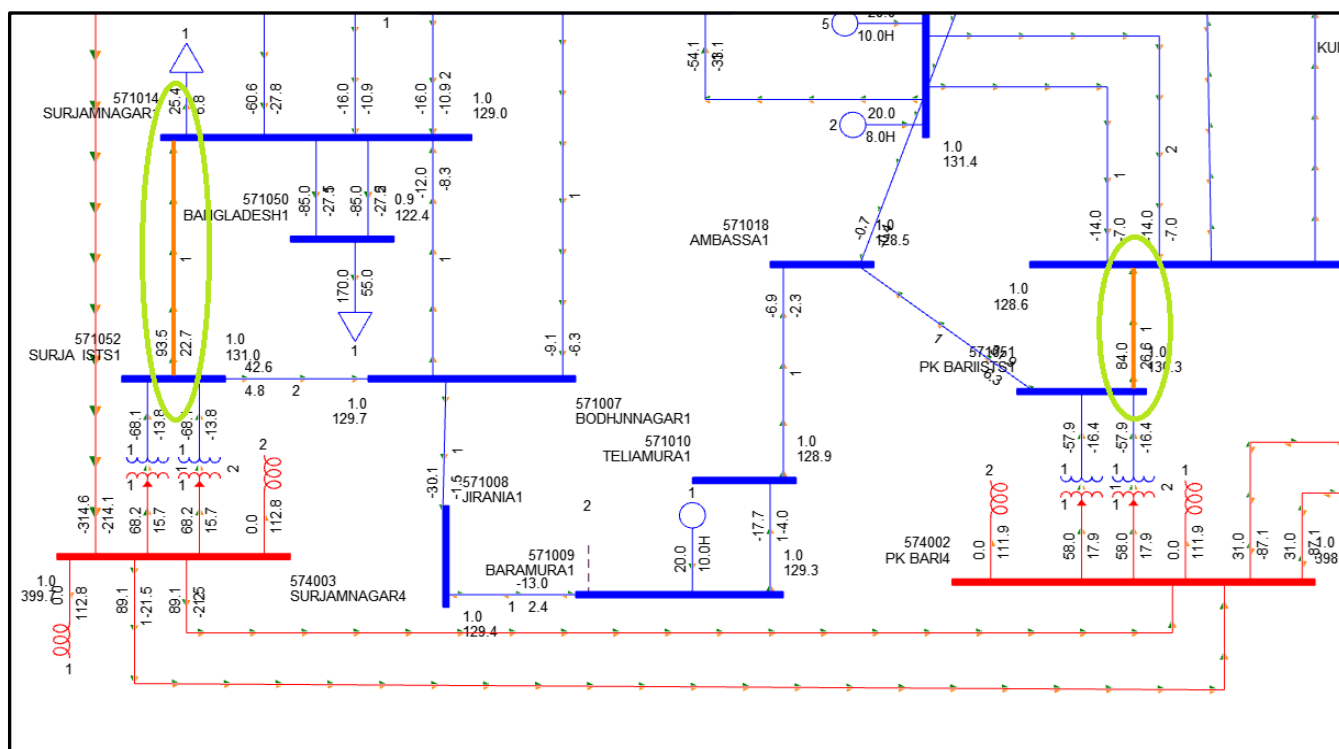
Percentage of time for which Bangladesh load was greater than 160 MW



Members may please deliberate.

C.3 Proposal of SPS Scheme to disconnect Bangladesh load on overloading of 132 kV Surajmaninagar (ISTS) - Surajmaninagar(TSECL) line.

In 189th OCC Meeting held on 19th April 2022, the forum had advised implementation of SPS for controlling overloading of critical lines in Tripura system. In the recent past overloading of the 132 kV SM Nagar (ISTS) – SM Nagar (TSECL) transmission line is being observed frequently for prolonged period of time rendering the power system vulnerable.



Considering the escalating loading trend of both Bangladesh and Tripura, the situation will only be aggravated.

In 3rd NERPC-TP held on 19th July'2021, re-conductoring of following 132kV intra-state lines/section by TSECL with HTLS conductor having ampacity of 800A were proposed:

- 132kV Surjamaninagar (TSECL) to LILO point of Surjamaninagar (ISTS) – 5.493km
- 132kV Bodhjungnagar (TSECL) to LILO point of Surjamaninagar (ISTS) – 12.867km
- 132kV Surjamaninagar (TSECL) to Bodhjungnagar (TSECL) – 18.36km
- 132kV Ambassa (TSECL) to LILO point of P.K. Bari (ISTS) – 35.45km along with LILO portion at 132kV Manu S/Sn.

The above proposed reconductoring projects of the transmission lines has been discussed in numerous meetings; however, the project remains pending. Out of the mentioned lines, HTLS reconductoring of 132 kV SM Nagar (ISTS) – SM Nagar (TSECL) transmission line is the most critical and to be carried out urgently for safe and secure operation of Tripura Power System. NERLDC vide letter dated 05/05/23 to TSECL highlighted the issue.

NERLDC proposes to implement a SPS scheme in Tripura Power System to disconnect the Bangladesh load by tripping 132 kV Surajamaninagar-South Comilla D/C lines in

the event of loading in 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line crosses 85 MW as a temporary measure till the re-conductoring works of these 132kV intra-state lines/section by TSECL is completed to ensure reliable grid operation in Tripura Power System.

Members may please deliberate.

C.4 Commissioning of 132 kV Monarchak-Surajmaninagar D/C

Commissioning of 132 kV Monarchak-Surajmaninagar D/C will enhance the reliability of Tripura Power System by providing safe evacuation of generation from Monarchak Power Station and relieving the high loading of 132 kV Surajmaninagar(ISTS)-132 kV Surajmaninagar(TSECL) line during high demand scenario of Tripura and Bangladesh load. As per the minutes of 201st OCCM, expected date of commissioning of the line is furnished to be July'23, however, the line was initially expected to be commissioned in 2016. TSECL is requested to expedite the commissioning works for secure and reliable grid operation.

Members may please deliberate.

C.5 Regarding reconductoring of 132 kV Jiribam-Loktak line

As we know, 132 kV Jiribam-Loktak line has been re-conducted with HTLS conductor and charged on 30th Mar'23. The ampacity of the re-conducted 132 kV Jiribam-Loktak line is 600A and the CT rating at Jiribam (PG) end is also 600 A. However, the conductor between CT to Busbar of Loktak-Jiribam Line at Loktak Sub-station is 132 kV panther conductor and the thermal capacity for the same is 366 Amp. As per the existing configuration of panther conductor at Loktak sub station, the maximum line loading of 132 KV Loktak-Jiribam line can be limited to thermal range i.e., 366 A and 83 MVA so the re-conductoring feature of the line could not be utilized in present condition. NHPC may look into the matter and may upgrade the jumper conductor to facilitate the maximum utilization of HTLS re-conductoring.

Further, as informed by NHPC, the available CT ratio at Loktak is 200-400-600/1 but there is no metering core in 600/1.

Members may please deliberate.

C.6 Readiness of end bay equipment for re-conducted 132 kV Umiam III-Umiam I D/C lines

132 kV Umiam III-Umiam I D/C lines have been reconducted with Casablanca HTLS and now each circuit is capable of carrying 600 A, or 137 MVA (130 MW at a power factor of 0.95), as the end equipment for the line has been changed as per discussions of NERLDC with SLDC Meghalaya, however, there is no official confirmation of the readiness of end equipment at Umiam Stg-1 and 3 by SLDC Meghalaya. Moreover, there is also a possibility of upgrading the end equipment rating from 600 A to 750 A further enhancing the transfer capacity of these lines.

SLDC Meghalaya is requested to confirm the rating of the end equipment of 132 kV Umiam III-Umiam I D/C so that 137 MVA can flow smoothly as on when required.

Members may please deliberate.

D. ITEMS FOR STATUS

D.1. Implementation of projects funded from PSDF:

The status as informed in 201st 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 TESS queries.	30% requisition submitted.	Revised DPR including both 132kV Aizawl-Luangmualan d 132kV Khamzawl-Khawiva to be submitted.
Manipur	Package-II: completed Package-I: all	Work completed in all respects.	WIP.	10% disbursed for IT portion, no disbursement	Revised DPR for LDP of 132kV Imphal-

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	stations complete except Ningthoukhong. By May'22.	UC submitted in Oct'21.		for Meter, AMR portion. 20% disbursement for IT portion after completion of 3 rd milestone. 30% to be disbursed for Meter, AMR portion	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 04 th May'22.	Final 10% requisition submitted.	Not relevant in present scenario with commissioning of ISTS lines. Issue dropped	10% successfully disbursed. 20% fund reversed back from vendor account. Will be resolved soon.	For 132kv 79Tilla-Budhjungna gar line and for Rokhia link LDP at own cost. Tendering undergoing. DPR preparation for rest of the lines
Assam	Work completed except CRP, SAS work in 8stations which have been retendered and awarded to M/s SIEMENS. Completion by Dec'22	Project completed in all respects.	-	30% funds yet to be fully disbursed. 60% requisition sent.	Lines identified. Under DPR preparation stage.
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 201 st 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	1 st tower by April'23 while 2 nd 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	Refer to item B.8 (September'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	

D.3. Status of commissioning for upcoming projects:

Sl. No	Name of the element	Utility	Status up to the 201 st OCCM	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-2ckt 2	AEGCL	Auto-recloser integration work is pending at Sonabil end. Assam shall coordinate regarding SIO clearance for portion of the line owned by AEGCL. Forum advised NERTS	

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			to apply for FTC for the whole line to NERLDC. AEGCL intimated to M/s Siemens for Auto-Reclosure integration work.	
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.	
8	Re-conductoring 220kV BTPS-Salakati D/C	NERTS	Final reconductoring of ckt-2 scheduled on 28 th to 30 th April'23. Reconductoring of ckt-1 in 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	Same status	
12	PLCC/DTPC for 220kV Balipara- Sonabil	AEGCL	WIP	
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		
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	

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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	Completed in Mar'23	
28	LILO of 132kV Wokha – Kohima at 132/33kV New Kohima at Nagaland	NERPSIP	Ready for charging.	
29	132kV Wokha-Zunheboto – Mokokchung at Nagaland	NERPSIP	May'23	
30	132kV Tuensang – Longleng at Nagaland	NERPSIP	Tuensang SS upgradation under tendering.	
31	132/33kV Amarpur S/S at Tripura	NERPSIP	June'23	

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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	Waiting for Electrical Inspection Clearance	
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)		
44	LILO of BNC-Chimpuck II at Gohpur	Indigrid	Signing of the agreement under process	
45	220kV New Shillong-NangalBibra(ISTS 220/132kV) TL	MEPTCL	Same status	
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	Down	Unutilized	Status of IST	STU Lines for utilization	Status of Lines (as updated in 201 st OCCM)
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Agenda for 202nd OCC Meeting to be held on 18th May 2023

								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.
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 by Dec'2022. 2. Tender preparation is completed and is to be reviewed by AIIB	Mar'26 (36 months from date of Award)

Agenda for 202nd OCC Meeting to be held on 18th May 2023

II	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
III	Upgradation of Gohpur S/s from AIS to GIS	-	1. Notice of Award has been issued on 8 th June 2022 to M/S Sumaja Electro infra-Pvt Ltd.	June'2025
a)	2 no. 132kV GIS line bays at Gohpur for termination of LILO of one circuit of BiswanathChariyali – Itanagar 132kV D/c line (line works under ISTS through TBCB route)	132kV	1. LoA by Jun'22	June'2025
IV	Upgradation of Sonapur S/s from AIS to GIS	-	1. Contract to be awarded by Jun'23. LoA by Jun'23	June'2026
a)	LILO of 400kV Silchar-Byrnihat at Sonapur	-	1. LoA by Jun'23	June'2026

Sl. No.	Substation/Location	Transformation Capacity/ Element	Date of Award	Completion Schedule
B	Tripura (to be implemented by TSECL)			
I	Surajmaninagar (TSECL)	400/132kV, 2x315MVA	JV formation, between PGCIL and STU by 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 Surajmaninagar (TSECL) by POWERGRID to be done. Balance works under separate contract.	LILO completed for 400kV ckt 2 (by PGCIL) without bay readiness, LILO to be charged, total completion

Agenda for 202nd OCC Meeting to be held on 18th May 2023

				subjected to Sub-station readiness at Surajmaninagar
C	NEEPCO (to be implemented by NEEPCO)			
I	Extension works at RanganadiHEP end			
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 / Nirjuli 132 kV S/c line	132kV	Regarding bypassing of LILO at (a), work has been awarded in Dec, work to be completed in 4 months from LoA, The LILO portion is about 2.2km & the cost estimates have been received by NEEPCO. Upon approval of the same, work shall be awarded. Expected to be awarded shortly.	The work is being undertaken by M/s Sterlite. Shutdowns have been avoided, tentative completion by April end. The work is undertaken by M/s Sterlite. Tentative completion by May'23
b)	Re-conductoring of LILO portion at Pare end (of Ranganadi - Naharlagun / Nirjuli 132kV S/c line) with HTLS (HTLS equivalent to ACSR Zebra) along with modification of 132kV bay equipment at Pare HEP	132kV		

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

SL. No.	Item for Discussion	Status as per 201st OCCM	Latest Status
1.	Introduction of SPS in Leshka S/Sn of Meghalaya (Agenda No. C4 of 189 th OCCM)	Communication with M/s Hitachi underway	
2.	Voltage and MVAR issues at 400kV Kameng S/Sn (Agenda No. C7 of 189 th OCCM)	Discussion with OEM M/s BHEL is underway	
3.	Difficulty in test synchronization at Ningthoukhong S/Sn (installation of line CVT)		

Agenda for 202nd OCC Meeting to be held on 18th May 2023

	(Agenda No. C11. of 189 th OCCM)		
4.	Outage of 400kV Imphal (PG) – Thoubal-I (Agenda B.15 of 184 th OCCM)	RoW, litigation pending in court	
5.	Charging of 33kV Khupi-Kimi line at 132kV: Recommendations of the 187 th OCCM to be implemented: (a) Installation & Commissioning of PLCC and additional Wave Trap with accessories at Khupi (NEEPCO) - By Mar'22 Minutes of 188 th OCC meeting held on 16 th 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 188 th OCCM)	End equipment for OPGW communication to be installed. The OPGW communication will be ready by 15 th May'23	
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 190 th OCCM.	Tender floated in the month of August'2022.	
7.	Grid Disturbance in Dhaligaon area of Assam Power System (C.18 of 191 st OCCM)	Work for replacement and repairing of damaged earthing will start from 2 nd week of May.	
8.	Tower schedule of 220 KV D/C Transmission line (from Zhadima 400/220 KV GIS	Will be provided before OPGW installation in N Kohima -Zhadima Line.	

Agenda for 202nd OCC Meeting to be held on 18th May 2023

	Substation to Zhadima 220 KV Substation) (B.18 OF 194 TH OCC)		
9.	Occurrence of Multiple grid disturbance in Gohpur and radially connected areas of Assam Power System (C.10 of 194 th OCC)	SEM meters provided by PGCIL, both lines bays commissioned from AEGCL end. AEGCL scope of work done, Sterlite scope of work remaining	
10.	Status of Installation of TLISA in 400kV Silchar-Azara T/L & 400 kV Silchar-Byrnihat T/L (C.12 of 194 th OCCM)	LoA placed, expected completion of the delivery by June'23	
11.	PLCC & protection related issues at 132kV Tipaimukh S/s (C.15 of 194 th OCC) & (C.8 of 197 th OCC)	PLCC engineer to visit the SS. (MSPCL)	
12.	48V System reliability at Pasighat end (C.16 of 194 th OCC)	April'23	
13.	Construction of Anchor tower at location 433 by PGCIL and reconductoring of 220kV Mariani-Mariani SC with Moose conductors(B.16 of 196 th OCCM)	Shutdown taken, WIP	
14.	Commissioning of 400kV Bus-B at Ranganadi Power Station (C.14 of 192 nd OCCM)	In 193 rd OCCM, forum requested NEEPCO to put forth agenda for upgradation of 400 kV switchyard to GIS and implementation of 400 kV Bus-B together. Status of the same may be provided by NEEPCO	
15.	Implementation of Bus Bar Protection at 132 kV Kahilipara (AEGCL) Substation (C.8 of 196 th OCCM)	Estimate submitted for procurement of CT available with core for Bus bar protection.	
16.	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).	
17.	TLISA installation on 132kV Leshka-Khleihriat DC	DPR prepared, to be submitted by MEPTCL, for PSDF sanction	
18.	Long Outage of 132KV Agartala-RC Nagar-1 since 18.12.2022 due to severe SF6 leakage from CB at RC Nagar end (C.11 of 200 th OCCM)	GM, NEEPCO intimated the forum that the OEM, M/s Hitachi has been communicated for procurement of CB spares and it will be supplied by the end of April, 2023.	

Agenda for 202nd OCC Meeting to be held on 18th May 2023

		Spare delivered on 28 th March. Tentative restoration be 1 st week of May'23	
19.	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	
20.	Installation of Line differential protection in Rokhia-N.Rokhia line	CBs for LDP of Rokhia- N. Rokhia line has to be procured. Further, estimate has been prepared and tendering will take place in May'23	

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 201st OCCM, Assam requested for support from OEM for rectification of DCD issues.

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. 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	ASSAM	220 kV TINSUKIA END OF KTG FDR-I	NP-9654-A	Time drift display not functional
2	ASSAM	220 kV TINSUKIA END OF KATHALGURI FDR-II	NP-9658-A	16 mins
3	ASSAM	132 kV UMRANGSOO END OF KHLEIRIAT (PG)	NP-5290-A	16 mins
4	ASSAM	132 kV UMRANGSOO END OF HAFLONG	NE-0019-A	4 mins

The sub-committee may deliberate

E.3. Procurement of SEMs for future requirements:

As per 201st OCCM, re-estimation of SEM requirement for the Upcoming Transmission lines has been listed below based on the inputs received from CTU and Assam:

As per record received from CTU (upto schemes approved in 17th CMETS-NER)

Agenda for 202nd OCC Meeting to be held on 18th May 2023

Sl. No.	Name of Elements	SEMs reqd.	Tentative COD Schedule
1	400 kV LOWER SUBANSIRI – BNC 2 x D/C	6	2nd D/c line to be charged in Jul 23
2	132 kV ROING (PG) – CHAPAKHOWA D/C	4	Jun-23
3	400 kV BONGAIGAON (PG) – NANGALBIBRA D/C (initially operated at 220kV)	4	Dec-23
4	132 kV HATSINGHMARI (ASM) – AMPATI (MEG) D/C	4	Dec-23
5	2x160MVA ICTs at 220 kV NAMSAI (PG) SS	4	Oct-25
6	220 kV AGBPP - NAMSAI (PG) D/C	6	Oct-25
7	400/220kV, 2x500MVA ICTs at 400/220/132kV GOGAMUKH	4	(Tentative Dec-26)
8	220/132kV, 2x200MVA ICTs at 400/220/132kV GOGAMUKH	4	(Tentative Dec-26)
9	LILO of one D/C of 400 kV LOWER SUBANSIRI – BNC 2x D/C at GOGAMUKH	4	(Tentative Dec-26)
10	132kV GOGAMUKH – GERUKAMUKH (A.P) D/C	4	(Tentative Dec-26)
Total		44	

As per Ongoing discussions in OCC Forum

Sl. No.	Name of Elements	SEMs reqd.	Tentative COD Schedule
1	LOWER SUBANSIRI UNITS & SATs & 132 kV FEEDERS	16	On-going
2	Restoration of KHANDONG & KOPILI HEP	23	On-going
Total		39	

As per Minutes of Transmission Planning (NERPC-TP/ NERSCT/ SCPSP-NER)

Sl. No.	Name of Elements	SEMs reqd.	Tentative COD Schedule
1	220 KV ALIPURDUAR - GOSSAIGAON D/C	2	2026
2	220 KV SALAKATI - GOSSAIGAON D/C	2	2026
3	132 KV RANGIA (ISTS)- NALBARI (ASM) S/C	1	2026

Agenda for 202nd OCC Meeting to be held on 18th May 2023

Sl. No.	Name of Elements	SEMs reqd.	Tentative COD Schedule
4	132 KV RANGIA (ISTS)- AMINGAON (ASM) D/C	4	2026
5	2x500 MVA 400/220 kV ICTs at RANGIA (ISTS)	4	2026
6	400 KV BALIPARA- RANGIA (ISTS) D/C	2	2026
7	400 KV BONGAIGAON - RANGIA (ISTS) D/C	2	2026
8	400 KV SONAPUR - SILCHAR	2	2026
9	400 KV SONAPUR - KILLING	2	2026
12	220 KV MISA - SHANKARDEB NAGAR D/C	4	2025
13	400 KV BNC- KHUMTAI D/C	4	2026
14	220 KV NEW MARIANI - DIPHU D/C	4	2026

Total

33

Total SEM estimated	116
Spare estimation	14
Total SEM required	130
Availability at Storage	70 (appx)
Total SEM to be Procured	60

The sub-committee may deliberate

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उत्तर पूर्वी क्षेत्रीय भार प्रेषण केन्द्र / North Eastern Regional Load Despatch Centre

CIN : U40105DL2009GOI188682, Website : www.nerfdc.in, E-mail : nerfdc@grid-india.in, Tel.: 0364-2537470/427, Fax: 03642537486

संदर्भ : उपक्षेभाप्रेके/एस.ओ-II/34/4687

दिनांक/Date: 05/05/2023

सेवा में/To:

Chairman and Managing Director, TSECL, Agartala-799001

प्रतिलिपि/Copy to:

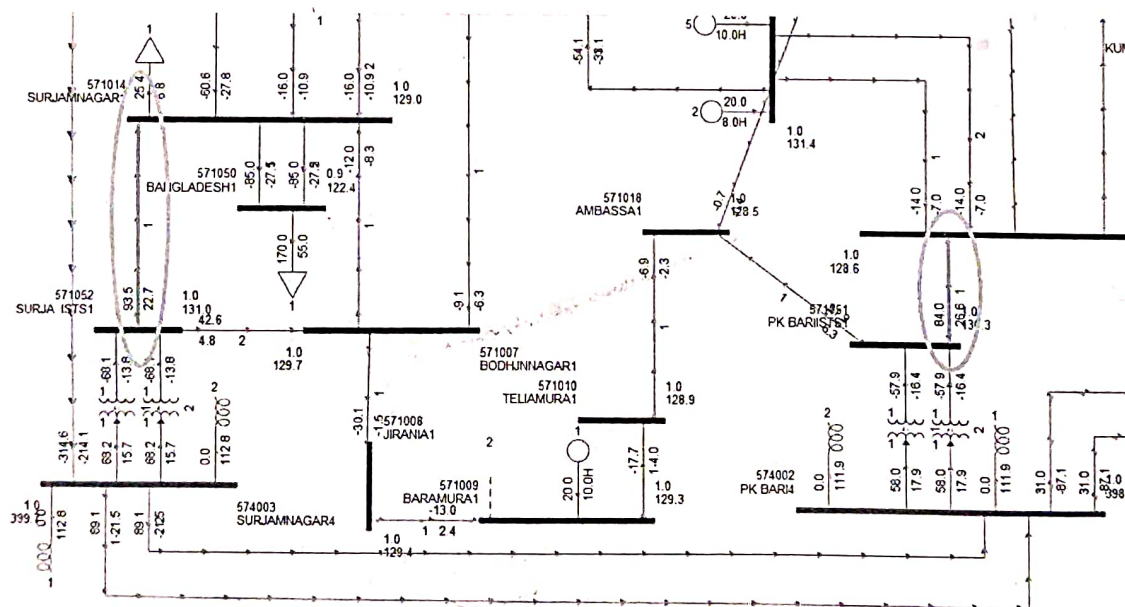
Member Secretary, NERPC, Shillong- 793006

विषय/Sub: Request for Prompt Reconductoring of 132 kV SM Nagar(ISTS) - SM Nagar(TSECL) Transmission Line

महोदया / महोदय

This is in regards to the overloading of Tripura's power grid on May 2nd, 2023. The total load of Tripura Power System was 480 MW, out of which 170 MW was being consumed by Bangladesh, resulting in overloading of the 132 kV SM Nagar (ISTS) – SM Nagar (TSECL) transmission line and rendering the power system vulnerable.

The study regarding the incident is shown below: -



As per the practical scenario, the load of Bangladesh and Tripura Power System is taken 170 MW and 310 MW respectively for the study.

And as shown in the study, 132 kV SM Nagar – SM Nagar and 132 kV PK Bari- PK Bari circuits got overloaded with 94 MW and 84 MW loading respectively.

And the thermal capacity of different lines as given by Tripura control room is given below:

S. No.	Name of Element	Loading
1	132 kV PK Bari- PK Bari	75
2	132 kV PK Bari- Ambassa	65
3	132 kV SM Nagar - SM Nagar	85
4	132 kV SM Nagar - Budhjungnagar	75

As per the above table, it can be noticed that real time loading has crossing the thermal loadings of 132 kV SM Nagar – SM Nagar and 132 kV PK Bari- PK Bari circuits.

In 3rd NERPC-TP held on 19th July'2021, re-conductoring of following 132kV intra-state lines/section by TSECL with HTLS conductor having ampacity of 800A were proposed:

- 132kV Surjamaninagar (TSECL) to LILO point of Surjamaninagar (ISTS) – 5.493km
- 132kV Bodhjungnagar (TSECL) to LILO point of Surjamaninagar (ISTS) – 12.867km
- 132kV Surjamaninagar (TSECL) to Bodhjungnagar (TSECL) – 18.36km
- 132kV Ambassa (TSECL) to LILO point of P.K. Bari (ISTS) – 35.45km along with LILO portion at 132kV Manu S/Sn.

The above proposed reconductoring projects of the transmission lines has been discussed in numerous meetings; however, as per the latest 200th OCC meeting of NER, the project remains pending.

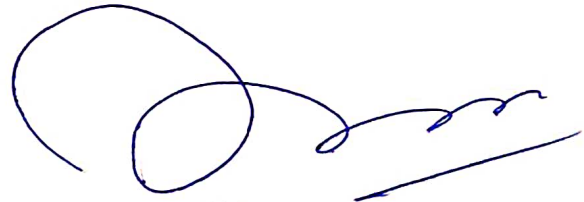
Considering the escalating load of both Bangladesh and Tripura, the situation will only be aggravated. As per our analysis, we have found that out of all the Transmission Lines approved for HTLS reconductoring, 132 kV SM Nagar (ISTS) – SM Nagar (TSECL) transmission line is the most critical and therefore initial focus must be diverted to the said line.

To prevent recurrence of issues like the one that occurred on May 2nd, 2023, we respectfully request that the reconductoring of the 132 kV SM Nagar-SM Nagar transmission line be carried out immediately for safe and secure operation of Tripura Power System.

We appreciate your attention to this matter and look forward to your prompt response.

धन्यवाद एवं सादर सहित।

Encl: As stated above



एस सी डे / S C De
वरिष्ठ महाप्रबंधक (एस ओ II) / Sr. GM (SO-II)
उपक्षेत्राधिकारी, शिलांग / NERLDC, Shillong



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)

[formerly Power System Operation Corporation Limited (POSOCO)]



Annexure C.2.2

उत्तर पूर्वी क्षेत्रीय भार प्रेषण केन्द्र / North Eastern Regional Load Despatch Centre

कार्यालय : लोवर, लापालांग, शिलांग -793006

Office : Lower Nongrah, Lapalang, Shillong- 793006

CIN : U40105DL2009GOI188682, Website : www.nerldc.in, E-mail : nerldc@grid-india.in, Tel.: 0364-2537470/427, Fax: 03642537486

संदर्भ/Ref: NERLDC/SO-1/Tripura/2023/4699

दिनांक/Date :09-05-2023

To,

Dy. General Manager,
System Operation Division, SLDC Tripura
79 Tilla, Agartala, Tripura - 799006

विषय/SUB: त्रिपुरा पावर सिस्टम प्रणाली में ट्रांसमिशन लाइनों पर ओवरलोडिंग के संबंध में/Regarding overloading of Transmission Lines in Tripura system.

Ref.: Para B.25 of Minutes of 189th OCC meeting held on 19/04/2022 at Guwahati.

महोदय/ Sir,

This has reference to the discussion self had with you on date (09-05-2023) on the subject matter. As already intimated, recently overloading of transmission lines in Tripura system has become a cause of serious concern and a threat to grid security and reliability. In particular, 132 kV SM Nagar(Sterlite) - SM Nagar line and 132 kV PK Bari (Sterlite) - PK Bari line are getting critically loaded and experiencing significant over loading for prolong period of time causing vulnerability in the Tripura system. As you may be aware that, loading of 132 kV SM Nagar - SM Nagar line and 132 kV PK Bari - PK Bari line reached upto 90 MW and 80 MW respectively on 08-05-2023 during evening peak hours which may endanger the security and reliability Tripura system and the grid. Earlier also similar instances of overloading of the above lines have been observed.

The issue of overloading of the aforementioned lines was also discussed in 189th OCC meeting, wherein Tripura was advised by the forum to limit their power export to Bangladesh to 160 MW till the completion of re-conductoring of 132 kV SM Nagar (Sterlite) - SM Nagar, 132 kV PK Bari – PK Bari(Sterlite), 132 kV SM Nagar-Budjungnagar and 132 kV PK Bari – Ambassa lines with HTLS conductor. Relevant excerpts from minutes of 189th OCC meeting is produced below for your ready reference.

Quote

After detailed deliberation the following were decided:

Page 1/2

a. Till completion of re-conductoring of 132kV Surjamaninagar-Surjamaninagar, 132kV PKBari- PKBari, 132kV SM Nagar – Budhjungnagar and 132kV PKBari – Ambassa with HTLS; Tripura to desist from selling in the Power Market and limit Bangladesh power supply at 160MW

b. Expedite the construction of 132kV SMNagar – Monarchak D/C

c. A SPS will be designed for all the non-fulfillment of N-1 in Tripura System.

Unquote

In view of the above, you are once again requested to take all necessary measures so as to strictly avoid any over loading of the above lines for safe, secure and reliable grid operation. Your co-operation in this regard is requested.

Thanking You.

Yours sincerely,

बिशाहू

(बिस्वजीत साहू /Biswajit Sahu)

वरिष्ठ महाप्रबंधक (एस.ओ-1)/ Sr. GM (S.O-1)

उ.पू.क्षे.भा.प्रे.के/NERLDC.

Copy : 1) सदस्य सचिव, एनईआरपीसी/ MS, NERPC

2) कार्यपालक निदेशक, एन.ई.आर.एल.डी.सी/ ED, NERLDC