

North Eastern Regional Power Committee
Agenda For

172nd OCC Sub-Committee Meeting

Time of meeting : 10:30 Hrs.

Date of meeting : 12th November, 2020 (Thursday)

Venue : “NERPC Conference Hall”, Shillong.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 171st MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 171st meeting of Operation Sub-committee held on 16th October, 2020 at Shillong were circulated vide letter No. NERPC/SE (O)/OCC/2020/3052-3089 dated 29th October, 2020.

The Sub-committee may confirm the minutes of 171st OCCM of NERPC as no comments/observations were received from the constituents.

ACTION TAKEN -ITEMS

B.1. ACTION TAKEN:

1. IMPLEMENTATION OF PROJECTS FUNDED FROM PSDF:

The status as informed in 171st OCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**	Line Differential Protection
Ar. Pradesh	Package-I (Diagnostic tools) Materials supplied. 30% payment released. Utilization certificate for 60% to be sent. P-II (for PLCC & communication) LOA issued. P-III (Substation equipment) NIT by Oct'20 Work delayed due to COVID situation. Station-wise status to be updated	Second tranche of 60% disbursed and payment made. Requisition to be sent for remaining 10%.	-	TESG approval awaited	-
Nagaland	All completed except for PLCC package. Delayed due to COVID situation Station-wise	Second tranche of 60% received. To be disbursed	-	TESG approval awaited	Lines identified. Under DPR preparation stage.

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	status to be updated.	by DoP Nagaland by Oct'20.			
Mizoram	Completed. 10% remaining claim to be submitted ASAP.	2 nd tranche 60% funds disbursed. Final 10% requisition to be submitted immediately	To reply to TESG queries.	TESG approval awaited.	Lines identified for installation of DPR viz. 132kV Aizawl - Luangmual and 132kV Kawmzawl - Khawiva.
Manipur	Package-II: completed Package-I: WIP Delayed due to COVID situation Station-wise status to be updated.	60% disbursed. Final 10% requisition to be sent immediately.	PSDF approved. NIT to be floated.	TESG approval awaited.	Lines identified. LDP for 132kV Imphal-Imphal and 132kV Jiribm-Jiribam proposed. Under DPR preparation stage.
	33kV System Integration with SLDC	In tendering stage			
	Reliable Communications for grid connectivity	In tendering stage			
Tripura	Work completed. 10% remaining claim to be sent ASAP. Station wise status to be updated.	10% fund disbursed. Requisition to be sent for 20% immediately	Study results to be submitted alongwith DPR	TESG approval awaited.	Only single line 132kV 79Tilla to Budhjangn agar. DPR to be prepared.
Assam	LOA issued. WIP, delayed due to COVID situation Station-wise status to be submitted.	30% funds disbursed. Requisition to be sent for 60% immediately	-	Under finalization stage for LOA.	Lines identified. Under DPR preparation stage.

Meghalaya	MePTCL Completed in all respects. MePGCL – 10% claim to be submitted ASAP.	Final tranche of 10% disbursed. Project complete in all respects.	-	Under finalization stage for LOA.	WIP. Delayed due to COVID situation
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All state utilities are requested to furnish latest status station-wise as per format by first week of every month on regular basis to Member Convener, PSDF Project Monitoring Group (AGM, NLDC, POSOCO) with a copy to NPC & NERPC. The LOAs of R&M Scheme are to be furnished to NERLDC/NERPC regularly.

States may please intimate the latest status.

B.2. OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING OCTOBER, 2020

NERLDC shall present the operational performance for the month of October,2020.

C. ITEMS FOR DISCUSSION

C.1 Generation Planning (ongoing and planned outages)

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

Plants	Reservoirs level in meter	MU content	Present DC (in MU)	No of days as per current generation
Khandong + Kopili stg II			0	
Kopili			0	Will be “0” until further intimation.
Doyang			1.12	
Loktak			2.48	

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

The Committee may discuss and approve the proposed shutdown by Generating Stations as given in Annexure – D.2 which is available in NERPC website.

C.2 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 kindly discuss and approve the transmission line outages proposed by Constituents for 01st December, 2020 to 31st December,2020 which is available in the website of NERPC.

C.3 Estimated Transmission Availability Certificate (TAC) for the month of October,2020:

NETC and POWERGRID have submitted the outage data for the month of October, 2020. So the attributability of outage of the said elements may please be finalized.

Members may please discuss.

C.4 Charging of 132kV Sihhmui S/S and related issues:

Decisions as per deliberation in previous meeting(s):

- Present condition of idle charging from Melriat end as anti-theft measure to remain in place. For charging of 132 kV Bays of Melriat – Sihhmui D/C at Sihhmui Substation, 132 kV Sihhmui Bus and 132/33 KV, 12.5 MVA Transformer at Sihhmui Substation, fresh application is to be applied to NERLDC and approval to be obtained.
- NERTS-POWERGRID to apply afresh for charging clearance/First Time Charging and Trial operation certificate for 132kV Melriat-Sihhmui including bays at both ends after obtaining clarification from NERPCTP, CEA.
- NERTS, P&ED Mizoram to inform about the conclusions of their bilateral discussions regarding tariff by Oct'20.
- After bilateral discussions if tariff related issues are still not resolved a special meeting to be held.
- Meanwhile till the matter is resolved, NERTS and P&ED Mizoram to abide by the decisions of the Special Meeting held on 24.07.2020

Members may please discuss.

C.5 RGMO analysis for events dated 11th June, 2020

Decisions as per discussions in previous meetings:

- OTPC- Discussions ongoing with OEM for anomaly in unit response.
- NTPC – All three units tuned in July'20.

Members may please discuss.

C.6 Charging of 33kV Khupi-Kimi line at 132kV:

Decisions as per discussion in the 170th OCC meeting:-

- (i) Insulator, line inspection of 132kV Khupi –Kimi line would be carried out by DoP Ar.Pradesh by Nov’20.
- (ii) NEEPCO requested NERPC to approach the highest level of DoP Ar.Pradesh in its behalf for handing over of the said line.
- (iii) Subsequent to handing over, application of FTC to NERLDC needs to be done.

Members may please discuss.

C.7 Phase Rotation & Related Mismatch Issues in NER:

Subsequent to discussions in various Sub-Group and OCC meetings a Special Meeting was held on 28th October, 2020 to resolve the long pending issue of Phase Rotation and resulting mismatch issues for PMU and DR.

The following were decided in the Special Meeting:-

- (i) Taking 400kV Bongaigaon as reference, all bay marking to be done afresh alongwith all bay elements.
- (ii) Since ports for relay already assigned and changing them would require OEM involvement, the secondary connections to the relays and PMUs to be done afresh subsequent to bay marking
- (iii) At first the activities to be completed for 400kV Azara, 400kV Byrnihat, 400kV Silchar and 400kV Palatana by 1st week of Nov’20.
- (iv) For New Stations after charging phase sequence and bay marking to be submitted to NERLDC for verification.

Members may please discuss.

AGENDA ITEMS FROM NERLDC:

C.8 Testing of Primary Governor response of NER Generating units as per IEGC Cl.5.2(g):

M/S Solvina vide its mail to NERLDC dated 2nd November’20 informed that they have received work orders from all the assigned generating units of NER and shared the tentative test schedule for NER Generators. The tentative testing schedule is as mentioned below:

Region	Station	No. of generators	Suggested Schedule		Duration (days)
			Test Start	Test End	
NER	NEEPCO Ranganadi	3	23-Nov	28-Nov	6
NER	NEEPCO Turial	2	29-Nov	2-Dec	4
NER	NEEPCO-Monarchak	2	9-Nov	12-Nov	4
NER	NEEPCO-Kopili	1	21-Nov	22-Nov	2
NER	NEEPCO-Khandong	2	17-Nov	20-Nov	4
NER	NEEPCO- Pare	2	9-Dec	12-Dec	4
NER	OTPCL- Palatana	2	11-Dec	14-Dec	4
NER	NTPC Bangaigaon TPP	3	17-Dec	22-Dec	6
NER	NHPC Loktak	3	23-Dec	28-Dec	6

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 NEEPCO, OTPC, NTPC, NHPC are requested to confirm the test schedule. Since, Hydro season is nearing its end, it is proposed to test the hydro units by December'20 tentatively.

NERLDC may please deliberate.

C.9 Non-availing of important shutdown after providing availing confirmation or after receiving post OCC approval:

It has been observed on few occasions that utilities have not availed shutdowns of important elements like 400 kV Byrnihat-Bongaigaon, 400 kV Azara-Bongaigaon, etc. on the day of shutdown after receiving NERPC approval or after providing D-3 availing request to NERLDC. Details of few such shutdowns during Oct'20 are mentioned below:

Sl. No.	Element Name	SD Category	Availing Entity	Reason	Date of Approval by NERPC/ Receipt of D-3 Availing status	Approved Date
1	400KV-AZARA-BONGAIGAON-1	Post OCC	AEGCL	for works under PSDF scheme	15-10-2020	18-10-2020
2	400KV-BONGAIGAON-BYRNIHAT (KILLING)	170th OCC Approved	NERTS	For rectification of Panel wiring and AMP of Bay equipments	30-09-2020	03-10-2020

On receipt of D-3 availing request for shutdown of these important elements, NER-ER import/export capability is reduced in consultation with NLDC, affecting power transactions by all NER utilities, to enable the shutdown. The non-availing of shutdown without prior intimation not only leads to wastage of entire effort right from OCC till shutdown coordination (on D-3, D-2 & D-1) but also leads to unwanted revision of ATC affecting NER utilities. Thus, all utilities are requested to carry out proper planning and strictly avoid such unwanted course of action.

NERLDC may please deliberate.

D. ITEMS FOR STATUS REVIEW

D.1 Restoration of Assets damaged at Kopili HEP due to failure of Penstock:

As per decisions in previous meeting(s):

(i) Detailed ownership and scope of work finalized in the 168th OCC meeting.

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- (ii) No temporary restoration only permanent, the proposal to be put up in the 3rd NERPC-TP for necessary inclusion as additional scope in NERSS-III project.
- (iii) Kiosk arrangement/ hardware which is being presently used and shall also be a part of permanent restoration shall be jointly decided by NERTS/NEEPCO.
- (iv) Prior to permanent restoration the BoQ shall be shared by NERTS with the forum.
- (v) Joint Study by Meghalaya SLDC and NERLDC by 23rd October, 2020 to assess the impact of the unavailability of the Misa- Kopili- Khandong link on Meghalaya drawal during the lean hydro season.

NERTS/MeECL/NERLDC may please inform the status.

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

Sl. No	Element	Owner	Status as informed in the 171 st OCCM	Latest status
1	132kV Dimapur - Imphal	NERTS	Loc No.350 RoW still to be cleared. By Nov'20	
2	220kV Sonabil-Samaguri-I	AEGCL	To be charged after inspectorate clearance.	
3	63MVAR L/R for 400kV Palatana-SilcharCkt-I	OTPC	1 st week of Nov'20	
4	132kV Jiribam – Rengpang	MSPCL	Oct'20	
5	220KV-Agia-BTPS-I	AEGCL	Oct'20	
6	25 MVAR tertiary reactor 1,2 & 3 at Balipara	NERTS	Reactor 4 was revived on 06 th Oct'20 and 3 nos was taken under outage	
7	132kV Rangia-Rowta	AEGCL	-	
8	132kV Mariani – Mokokchung(out since April'2008)	AEGCL	-	
9	FSC of 400kV Balipara – Bongaigaon-4(out since 02 nd Sep'20)	NERTS	-	

Concerned utilities may please inform the status.

D.3 Status of commissioning for Upcoming projects:

Sl. No	Name of the element	Utility	Status as informed in 171 st OCC meeting	Latest status
1	LILO of 132kV Surjamaningar-Budhjungnagar-I at Surjamaninagar(ISTS)	TSECL	Nov'20	
2	LILO of 132kV P.K.Bari-Ambassa at P.K.Bari(ISTS)	TSECL	Nov'20	
3	400kV Palatana-Surjamaninagar D/C	NERTS	Dec'20	
4	400kV Silchar –	NERTS	Dec'20	

	P.K.Bari D/C			
5	132kV Monarchak-Surjamaninagar	TSECL	Sep'20	
6	PLCC for 132kV Loktak-Ningthoukong and 132kV Loktak-Rengpang	MSPCL	Dec'20	
7	Construction of 2 nd bay at Balipara for 220kV Balipara-Sonabil-2	AEGCL	NIT by Oct'20	
8	Bay at 132kV Agia S/Sn for 132kV Agia-Nangalbibra-II	AEGCL	Bay ready, panel to be commissioned by 1 st week of Dec'20	
9	Upgradation of 132kV Lumshnong – Panchgram line	MePTCL	Final PSDF approval by Nov'20	
10	Diversion of 132kV Bawktlang-Sihhmui	NERTS	WO placed. By Jan'20	

Concerned utilities may please inform the status.

D.4 Mapping of NERLDC Tripping portal and PDMS tripping portal:

In 170th OCCM NERPC informed that Techno-Commercial offer has been received from M/s PRDC. Following are the activities for integration:

1. Mapping of NERLDC fields to PDMS Tripping incident fields (that are required for PDMS)
2. Identification of RESTful end points for each Create/Update/Delete operation performed in Tripping incident portal
3. Development of RESTful API
4. Setting up an integration with SFTP for attachment association Techno Commercial Proposal for NERPC tripping portal integration
5. Integration & Testing
6. Deployment
7. Acceptance Testing

Further upon suggestion of Member Secretary i/c, NERPC it was decided that the quoted amount of INR 12lakh may be booked under PDMS project subject to PSDF approval.

NERPC may please intimate the status.

D.5 Preparation of List of Important Grid Elements:

In the Special Meeting (for improvement of Data Availability) held on 18th August,2020 it was decided that List of Important Grid Elements has to be prepared by NERLDC(for ISTS and important intra-state elements) and by SLDCs(for intra-state elements).

Status of preparation of list of Important Grid Elements as per 171st OCCM:

Arunachal Pradesh	No representative
Assam	By Oct'20
Manipur	By Oct'20
Meghalaya	Prepared. To be re-submitted
Mizoram	Prepared. To be re-submitted

Nagaland	Prepared. To be re-submitted
Tripura	By Oct'20
NERLDC	Prepared and submitted.

All SLDCs may please intimate the status.

D.6 Immediate restoration of 220kV Bus-Coupler Bay at Samaguri(AEGCL) & keeping both buses in service at 220kV Sub-stations in Assam power system:

In 171st OCCM AGM, SLDC, AEGCL informed that the matter has been intimated to the headquarters for early implementation. The forum requested Assam to furnish the substation wise issues and reasons for keeping the Bus Coupler in open condition for all 220 kV Substation where Bus Coupler has been kept open. NERLDC requested that the mapping of Bus Coupler bay to SCADA has to be completed for all the stations.

AEGCL may please intimate the status.

D.7 Renewal of Maintenance and Support Contract for PSS/E user licenses:

In 171st OCCM NERPC informed that M&S (alongwith upgradation) for the list of dongles as attached in **Annexure – D.7** would be done by CTU free of cost. In this respect all the SLDCs were requested to intimate whether they would opt to switch to the dongles mentioned in the Annexure to avail the scheme offered by POWERGRID. EE, SLDC, Meghalaya informed that Meghalaya has already opted for the same and the mentioned dongles are in custody of SLDC, Meghalaya. All the other SLDCs were requested to intimate likewise.

All SLDCs except Assam, Meghalaya may please intimate the status.

D.8 Utilization of Transfer Bus and Bus Coupler Breaker during rectification of Main Circuit Breaker for 132 kV Dimapur-Doyang line 2:

In 171st OCCM DGM, NEEPCO informed that the wiring of Selector Switch to the BC is yet to be done and also Trip Transfer scheme has to be completed. Further LBB has to be commissioned for all the feeders. For the said activities OEM is involved and due to COVID situation the work is delayed although every effort is being made for an early completion.

NERLDC mentioned that the unwanted outage of the line should be avoided and Bus Coupler CB must be utilized as and when the issues are resolved.

NEEPCO may please intimate the status.

D.9 Furnishing of data sheet on daily basis for preparation of daily PSP report:

In compliance to Regulation 5.5.1 (b) of IEGC 2010, NERLDC is preparing Daily Power Supply Position (PSP) report pertaining to NER. Most of the NER constituents are furnishing the data required for preparation of PSP report in formats agreed in 148th OCC Meeting on Sept.'18, apart from the following:

- (i) Manipur

- (ii) Mizoram
- (iii) Arunachal Pradesh

NERLDC may please intimate the status.

Metering Agenda

D.10 SEMs to be Procured

In 171st OCCM NERTS informed that Procurement of 100 SEMs and 20 DCDs have been completed and internal process is ongoing for procurement of additional 50 SEMs.

NERTS may please inform the status.

D.11 SEM time drift:

In 170th OCCM NERTS informed that they would try to replace the SEMs as listed in 170th OCC Meeting by Sep'20 but due to restricted movement, pace of works has been severely hampered. Director (Comml.), NERPC requested NERTS to study and table exhaustive report in the OCC forum for quick resolution of time drift issues.

NERTS may please inform the status.

D.12 Integration of SEMs with laptop/PC for data downloading:

Decisions as per deliberation in the previous OCC forum:

- i. Implementation of RS-485 scheme for data downloading in one station preferably a generating station
- ii. If trial operation is successful then the scheme is to be extended to all stations where SEM quantity is greater than 10.
- iii. Trial/Pilot to be set up at OTPC Palatana.
- iv. OEM support to be sought by NERTS for early implementation of the scheme.

NERTS may please inform the status.

D.13 Second Meter List for replacement:

In 170th OCCM NERLDC presented a second list of 29 SEMs (in addition to first list of 22 SEMs approved in 169th OCC Meeting) consisting of 25 Elster make SEMs & 4 defective SEMs. NERLDC requested to replace all the Elster make SEMs as procurement of same was blacklisted in 2015 and vendor support is not available.

In 171st OCCM NERTS was requested to expedite the process of replacement/new installation of meters.

NERTS may please inform the status.

D.14 New Meter and CMRI requirement:

In 170th OCCM NERLDC submitted a list of requirements of SEM and CMRI for new locations. It was agreed that meters will be installed in new locations where check/backup meters are not available, and DCD will be provided from the recent procurement. Also, NERTS will give the details of meter requirement for their substation from where they draw power for aux. consumption and will install the meters (as decided in 39th CCM).

NERTS may please inform the status.

D.15 SEM data collecting Laptop related issues:

The 171st OCC forum requested NERTS to expedite process of resolving all laptop related issues. Dir. Commercial, NERPC advised NERLDC to list the distribution of the 20 nos DCD based on priority of requirement. NERTS agreed to do the time drift correction activities of the SEM installed at State S/S from where they collect and send the data to NERLDC and DCD shall not be provided to those S/S.

NERTS may please inform the status.

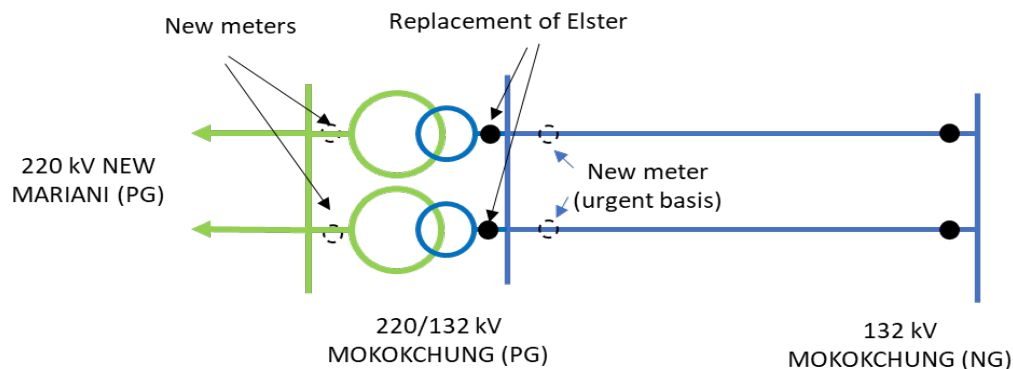
D.16 Procurement of SEM & DCD/Laptop for future requirements:

In 170th OCCM NERLDC presented the estimation 125 nos. SEMs and 15 nos. CMRIs shall be required for future projects and maintaining spare. List of SEMs and CMRIs was presented by NERLDC. The forum also decided that procurement will be done on single tender basis from L&T to synchronize with the existing metering system.

NERTS may please inform the status.

D.17 Replacement/Installation of new SEM at Mokokchung sub-station:

The 171st OCC forum decided that replacement/ New installation of SEM at Mokokchung-PG Substation shall be done as per the diagram below:



NERTS may please inform the status.

D.18 Sign Reversal Problem:

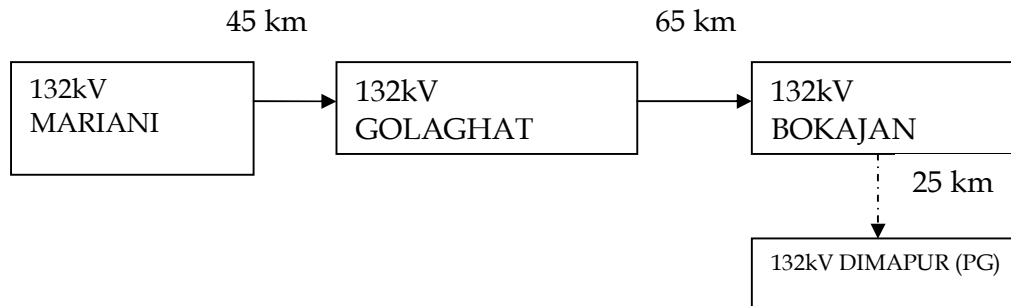
For sign reversal problem is persisting in the following lines the following were decided in the 171st OCCM:

- Imphal (Man) end (NP-9544-A) of 132 kV Imphal (Man) - Imphal (PG) -I. MSPCL to rectify the connections by 23rd Oct'20
- Karong end (NP-9667-A) of 132 kV Karong - Kohima line. Also, Kohima end of 132 kV Karong - Kohima line reads appx. 20-25% less than that of Karong end. DoP Nagaland to replace the CT at Kohima by Oct'20

MSPCL, DoP Nagaland may please intimate the status.

E. ITEMS FOR INFORMATION

E.1 Low Voltage Profile at 132kV Bokajan GSS:



Due to unavailability of ICT at Dimapur (PG) GSS, Bokajan GSS is being fed radially from Mariani GSS via Golaghat GSS. Low voltage profile is being observed at Bokajan GSS (mostly industrial load suffering in off peak hours) . It is requested to consider radial loading of 132kV Bokajan-Dimapur (PG) line for voltage improvement at Bokajan GSS (132kV Golaghat - Bokajan may then be kept open).

In 171st OCCM it was decided that NERLDC would do a System Study considering the worst contingency in Nagaland System and revert back to the forum.

A Special Meeting was convened on 23rd October,2020 to discuss power supply to Bokajan from Dimapur, wherein after careful consideration of all the different aspects of Study it was decided to extend power supply to Bokajan from Dimapur. However the quantum of power drawn from Dimapur shall not exceed 15MW under any circumstances.

Subsequently on 27th Oct'20 132kV Dimapur-Bokajan was charged and power supply was restored.

This is for information only.

Any other item:

Date and Venue of next OCC