

North Eastern Regional Power Committee
Agenda For

175th OCC Sub-Committee Meeting

Time of meeting : 10:30 Hrs.

Date of meeting : 19th March, 2021 (Friday)

Venue : “State Circuit House”, Tawang.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 175th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 175th meeting of Operation Sub-committee held on 18th February, 2021 at Shillong were circulated vide letter No. NERPC/SE (O)/OCC/2020/3052-3089 dated 01st March, 2021.

Under item No. **C.18** DoP Ar.Pradesh has requested for the following modifications:

“16 MVA ICT available at PGCIL, Nirjuli is rated 132/33 kV instead of 33/11 kV, which is required for 132/33 kV Sub-Station, Dokumpani, Arunachal Pradesh”

The Sub-committee may confirm the minutes of 175th OCCM of NERPC with suitable amendments as no other 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 175th OCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**	Line Differential Protection
Ar. Pradesh	Package-I (Diagnostic tools) Utilization certificate to be sent immediately alongwith final 10% requisition. P-II (for PLCC & communication) LOA issued. Requisition for 30% to be sent immediately. P-III (Substation equipment) NIT by Mar'20 Station-wise status to be updated	Work completed. SAT pending. 90% disbursement completed.**	-	TESG approved.	-

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Nagaland	All completed except for PLCC package. Delayed due to COVID situation Station-wise status to be updated.	90% payment disbursed. Requisition to be sent for final 10%.	-	TESG approved	Lines identified. Under DPR preparation stage.
Mizoram	Completed. 10% remaining claim to be submitted ASAP.	Final 10% requisition submitted.	To reply to TESG queries.	TESG approved	DPR submitted.
Manipur	Package-II: completed Package-I: WIP Delayed due to COVID situation Station-wise status to be updated.	90% disbursed. Final 10% requisition to be sent immediately.	LOA issued. Requisition to be sent for first tranche.	TESG approved	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.	Remaining 20% of first tranche to be disbursed. 60% requisition to be sent immediately	Study results to be submitted alongwith DPR	TESG approved	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.	60% amount to be disbursed.	-	LoA issued	Lines identified. Under DPR preparation stage.

Meghalaya	MePTCL Completed in all respects. MePGCL – completed in all respects.	Project complete in all respects.	-	LoA issued.	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 FEBRUARY, 2020

NERLDC shall present the operational performance for the month of February,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			0.151	
Kopili			0	Will be “0” until further intimation.
Doyang			0.1425	
Loktak			0.987	

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 April, 2021 to 30th April, 2021 which is available in the website of NERPC.

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

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

Members may please discuss.

C.4 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.

(ii) For permanent restoration NERLDC, NEEPCO, NERTS and NERPC would discuss and send common agenda for deliberation of NERPCTP.

(iii) NEEPCO to submit DPR to CEA.

NERPC may please inform the status.

C.5 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.
- Charging of 132kV Sihhmui is essential and this would also enable utilization of 132kV Melriat-Sihhmui D/C. For this both NERTS and P&ED Mizoram to apply for charging clearance from NERLDC for a mutually convenient date at the earliest.
- In 175th OCC meeting NERTS informed that CT healthiness is being checked at Sihhmui and the application for FTC of 132kV Melriat-Sihhmui shall be done by Feb'21.

- NERTS to assist P&ED Mizoram for appeal process so that no burden is passed onto the state.

Members may please discuss.

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

Deliberation of the 175th OCC meeting:

For 33kV Khupi-Kimi line Joint Inspection comprising of members from NERLDC, NEEPCO, DoP Ar. Pradesh and NERPC would be carried out in Mar'21.

Members may please discuss.

C.7 Review of Automatic Under Frequency Load Shedding Relay Settings in NER:

In the 19th NERPC Meeting held on 28th& 29th Nov'18, it was approved to revise the stages of the operation of UFR from existing frequency band of 49.2 – 48.6 Hz (100MW) to 49.4 – 48.8Hz (170MW) in four stages viz., 49.4 Hz, 49.2 Hz, 49.0 Hz, 48.8 Hz. Also, the issue was deliberated, and constituents agreed for implementation of revised band of frequency and quantum of load shedding during the 148th OCC Meeting. Constituents are requested to update the latest status on the same.

Status for (i) Identification of feeders for additional installation of UFRs, (ii) Review the existing locations of UFR installation w.r.t. loading and connectivity as per 175th OCC meeting:

Name of the utility	Time period
DoP Ar. Pradesh	By Feb'21
Assam	By 25-02-2021
Manipur	To be updated
Meghalaya	By Feb'21
Mizoram	To be updated
Nagaland	To be accommodated in ADMS. Plan to be intimated by Feb'21
Tripura	To be updated

Members may please discuss.

C.8 Mobile Substation for Emergency Restoration of EHV system in NER:

In NER, it has been experienced that there are outages of substation/Generating Station/EHV element /s due to natural calamities. Recent such example is outage of generating station namely Kopili HEP, NEEPCO due to fresh flood/failure of penstock.

Further, for restoration of EHV systems in time, insurmountable constraints are faced by utilities like tough terrain, poor response from vendors for supply & services in NER especially in remote locations within stipulated period.

Hence it is suggested that mobile substation may be kept as regional spare for critical central sector stations where the affected station (suffering outage) in part can be bypassed under urgency and Incoming & Outgoing TLs be directly connected/terminated to TL Towers through the mobile station solution) till the main station is restored to its shape. The Mobile substation with bay modules will have the following facilities for emergency restoration of bays:

- a) 1 no. 220kV Bay with all EHV equipment & protection system

b) 1no. 132kV Bay with all EHV equipment & protection system

Tentative Cost estimate is Rs.8.42 Crore (apx) excluding taxes & duties and F&I. The matter was discussed in 168th OCC where POWERGRID gave a presentation.

NERLDC & NERPC also stressed the need for mobile substation

The 21st TCC/RPC approved the mobile bays. NERTS may please present DPR in the meeting.

Members may please discuss.

C.9 Availing of Palatana Merchant Power by beneficiaries:

Member Secretary, NERPC informed that in the 21st TCC/NERPC meeting all the states agreed to consider availing Merchant Power of Palatana as part of their firm share. In case some decided not to avail the same the other states would avail the corresponding share as per formula decided by MoP. He requested the beneficiaries to give their views.

CGM(Comml.), APDCL stated that the bilateral agreement of MTOA with OTPC is ending on 31st Mar'21. If the same is renewed and the merchant power is availed then Assam would be in surplus condition and would have to sell power in the market at discount to purchase cost. However, at present Assam is agreeable to take additional firm power from OTPC during peak time if the rate is competitive.

DoP, Nagaland and P&E Dept. Govt. of Mizoram have already confirmed to avail the above merchant power as per existing firm share.

The other states intimated that in one week time frame the decision would be conveyed.

Members may please discuss.

AGENDA ITEMS FROM NERPC:

C.10 Preparation of Transmission Plan for 2026-27 and 2031-32:

For preparation of Transmission Plan for 2026-27 and 2031-32 CEA has requested that Load Generation Balance (Load vs dispatch of RE and conventional generators including ISGS) for the following scenarios or any other applicable scenarios are to be submitted:

- June – afternoon, evening, late night
- August – afternoon, evening, late night
- February - afternoon, evening, late night

NERPC may please deliberate.

C.11 Category-wise consumption of electricity in state/UTs:

The monthly category wise consumption data for 2019-20 and April'20 to Jan'21 has been urgently desired by Hon'ble MoS(Power). A sample is attached at **Annexure-C.11** States may include any other category not mentioned explicitly in the sample.

Further in this regard, it has been advised by CEA that henceforth the monthly data of category-wise consumption of electricity in the States be discussed regularly in OCC with comparative analysis of the same for corresponding monthly data of previous year.

NERPC may please deliberate.

C.12 Third Party Protection Audit:

Status of the third party protection audit conducted in views of Power Station of MePGCL on 09th/10th October'2020

MePGCL may please deliberate.

C.13 R&U of Protection System:

Status of Renovation and Upgradation of Protection System in all power stations of MePGCL under PSDF scheme

MePGCL may please deliberate.

AGENDA ITEMS FROM NERLDC:

C.14 Proper checking of isolator status before switching circuit breaker:

It is observed that on 19/02/2021, during returning of S/D of Silchar 1 bay at Misa, due to some observational mistake in SCADA, breaker was closed keeping the isolators open. Later new code was provided for opening & closing the bay once again for proper closing of the Bay. Hence it is requested to all concerned to check Isolator status before any operation of Circuit Breaker.

NERLDC may please deliberate.

C.15 Calibration/replacement of defective panel meters of AGBPP:

E/S/D of 220 kV AGBPP – Mariani(PG) TL was availed by Powergrid from 11:41 Hrs on 08-03-2021. However after returning of the S/D by Powergrid, closing code was issued at 15:28 hrs and accordingly line was extended from Mariani(PG) at 15:49 Hrs. But synchronization at AGBPP was delayed for more than 1 Hr, stating voltage difference of their BUS (221kV) and the incoming line (195kV). On enquiry it was found that the voltage at Mariani(PG) was 223kV and Mariani(AS) was 220kV. Hence it is suspected that the indicating meters at AGBPP end are defective and needs calibration/replacement.

NERLDC may please deliberate.

C.16 Seeking NERLDC code for switching of important grid elements:

It is observed that few constituents are not taking NERLDC code for operation (Closing/Opening) of important grid elements under their own jurisdiction as well as Tr. Lines connecting State & ISTS S/S, reducing system security and reliability. Few Instances of such occurrence are as below:

1. Doyang U-1: 15:10 hrs of 09-03-2021 (Synchronised without code)
2. 132 kV Surajmaninagar – Comilla Ckt-2: 11:31 hrs of 03-03-2021 (Closed)
3. 132 kV Palatana – Udaipur: 18:22 Hrs (Opened) and 23:13 Hrs (Closed) of 04-03-2021
4. 132 kV Loktak – Ningthoukhong: 15:32 Hrs of 25-02-2021 (Closed at MSPDCL end)

As per Clause No-11.2 of NER Operating Procedure, NERLDC code is to be obtained for switching of important grid elements.

NERLDC may please deliberate.

C.17 Addition of station DC Earth Fault signal in SCADA:

In the month of February'21, there were many instances of spurious tripping or tripping without indication, as mention below. In few of the mentioned cases, the cause of tripping are suspected to be “DC Earth Fault”. But as DC Earth fault signal is not included in the Sub-Station event logger or SCADA, such earth fault situations are not recorded in the system. Hence all constituents are requested to add “Station DC earth fault” signal in SCADA database.

Members may please discuss.

1. 800 kV HVDC Pole-2 on 12/02/2021 and 18/02/2021: No Details
2. Loktak Bus Bar protection operated on 13/02/2021: Suspected due to DC earth fault
3. LBB operated at 132 kV SM Nagar S/S on 14/02/2021: Corrective action taken by TSECL
4. 400 kV Balipara- Bongaigaon III & IV on 29/02/2021: Suspected DC Earth Fault

NERLDC may please deliberate.

C.18 Black Start & Restoration Procedure:

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

Plant Name	Performed on	Due Date
AGBPP	.....	.....
AGTTCCPP	09.04.2019	09.10.2019
RHEP	.....	.....
PareHEP	25.01.2020	25.07.2020
Kopili HEP	10.05.2019	NA
Khandong HEP	09.05.2019	09.11.2019
DHEP	12.06.2019	12.12.2019
Kameng HEP	.....	.....
OTPC	NA	NA
BGTPP	NA	NA
Loktak HEP	10.12.2019	10.06.2020

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. Therefore, mock black start exercises at all the generating stations is due as per dates mentioned in the above table. Procedure of Mock Black start at AGBPP was discussed and agreed in 166th OCC Meeting. AGBPP, RHEP and Kameng are requested to provide a suitable date for mock black start exercises at their respective power stations.

NERLDC may please deliberate.

C.19 Reactive Power Capability Testing:

The previous Reactive Power Capability Testing has been conducted at various generating stations in NER as per procedure approved in 158th OCCM, on the dates mentioned in the following table:

Plant Name	Performed On
AGBPP	.....
AGTCCPP	07.12.2019
RHEP	.....
PareHEP	.....
Kopili HEP	NA
KhandongHEP	.....
DHEP	.....
Kameng HEP	20.01.2021
OTPC	13.08.2019
BGTPP	30.09.2019
Loktak HEP	17.07.2020

AGBPP, RHEP, Pare HEP, Khandong HEP and DHEP are requested to provide a suitable date for Reactive Power Capability Testing at their respective power stations. The tests can also be conducted remotely by NERLDC as conducted at Loktak HEP.

NERLDC may please deliberate.

C.20 Monitoring of Performance of TARA devices:

All SLDCs of NER are requested to provide status of utilization of TARA devices installed at their respective states. The status of the same was last updated in 166th OCCM held on 6th March, 2020.

NERLDC may please deliberate.

C.21 Uniform segregation of 132kV lines and units to both 132kV Bus-A&B at Loktak HEP:

Switching scheme of 132 kV Loktak, NHPC is double main cum transfer scheme. As per operating procedures of NER, in case of two bus system, grid elements are to be segregated uniformly on different buses to maintain the security and reliability of the grid.

However, it was observed that all the 132 kV Jiribam (PG), Imphal(PG), Ningthoukong(MSPCL), Rengpang(MSPCL) and Unit-II & III were connected to 132 kV Bus-B and 132 kV Station Transformer & Unit-I were connected in 132 kV Bus-A which reduces the reliability of Loktak Power Plant along with NER Grid.

On dated 24th Feb'21, all the CBs connected to 132 kV Bus-A & B tripped resulting Grid Disturbance of category GD-1(Generation loss: 104 MW) at Loktak HEP and subsequently revived at 19:11 Hrs of 24th Feb'21. The cause of the tripping was reported to be Bus bar relay mal-operation due to DC earth fault.

NERLDC vide its letter dated 3rd Mar'21 to Loktak, NHPC requested to take up the issue of uniform distribution of feeders in both the buses after necessary checking to improve reliability & security of NER Grid.

NERLDC may please deliberate.

D. ITEMS FOR STATUS REVIEW

D.1 Status update of important grid elements under prolonged outage impacting system operation:

Sl. No	Element	Owner	Status as informed in the 175 th OCCM	Latest status
1	132kV Rangia-Rowta	AEGCL	By Mar'21	
2	132kV Mariani – Mokokchung (out since April'2008)	AEGCL		
3	FSC of 400kV Balipara – Bongaigaon-4(out since 02 nd Sep'20)	NERTS	By Mar'22	
4	132kV Roing-Pasighat (charged through ERS tower)	NERTS	by Apr'21	
5	220kV Mariani-Mokokchung - I	NERTS	B/R bay used to charge the line. By 31 st March'21	

Concerned utilities may please inform the status.

D.2 Status of commissioning for Upcoming projects:

Sl. No	Name of the element	Utility	Status as informed in 175 th OCC meeting	Latest status
1	400kV Palatana-Surjamaninagar D/C	NERTS	By Mar'21	
2	400kV Silchar – P.K.Bari D/C	NERTS	By Feb'21	
3	132kV AGTCCPP-PKBari D/C	STERLITE	By Feb'21	
3	132kV Monarchak-Surjamaninagar	TSECL	By March'21.	
4	PLCC for 132kV Loktak-Ningthoukong and 132kV Loktak-Rengpang	MSPCL	Included in R&U. By Mar'21	

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5	Construction of 2 nd bay at Balipara for 220kV Balipara-Sonabil-2	AEGCL	LoA by Feb'21	
6	Bay at 132kV Agia S/Sn for 132kV Agia-Nangalbibra-II	AEGCL	Bay ready at Agia and applied for charging by Assam. Meghalaya to apply for FTC as both the bays are owned by Meghalaya. MePTCL to co-ordinate for charging from both ends.	
7	Upgradation of 132kV Lumshnong – Panchgram line	MePTCL	PSDF approval awaited.	
8	Diversion of 132kV Bawktlang-Sihmui	NERTS	By Mar'21	
9	PLCC for 132kV Karong-Kohima	MSPCL	To be updated	
10	400/220kV 500MVA ICT at Mariani	NERTS	completed	
11	132kV Loktak-Ningthoukong-II	MSPCL	Mar'21	
12	132kV Roing-Chapakhowa	NERTS	Negotiation on-going.	
13	132kV Rupai- & Chapakhowa S/Sn	POWERGRID	Dec'21	
14	Re-conductoring 220kV BTPS-Salakati D/C	NERTS	Bid to be opened by Feb'21	

Concerned utilities may please inform the status.

D.3 Testing of Primary Governor response of NER Generating units as per IEGC Cl.5.2(g):

Schedule as agreed in the 175th OCC meeting

Region	Station	No. of generators	Schedule	Duration (days)	Remarks
NER	NEEPCO Tuirial	2	Tentatively during Jun-Jul 2021	4	In high hydro
NER	NEEPCO-Monarchak	2	07 th Apr'21 to 13 th Apr'21	8	-
NER	NEEPCO-Kopili	1	Under long shutdown	2	-
NER	OTPCL-Palatana	2	In May'21	4	-
NER	NTPC Bangaigaon TPP	3	Last week of Apr'21 or May'21	6	-
NER	NHPC Loktak	3	22 nd Feb'21 to 27 th Feb'21	6	-

NERLDC may please intimate the latest status.

D.4 Palatana Units MVAR absorption/injection:

On 03.02.2021, Tap position of UAT-1 was increased from 3 to 4 on 03.02.2021 after the issue of high MVAR injection was informed by NERLDC. The same could not be done for UAT-2 as diverter switch for the same is not operational (as informed by OTPC via email dated 01.02.2021). Presently, GTG-1, STG-1 and STG-2 are seen to be absorbing MVAR in high voltage scenarios. However, GTG-2 is seen to be injecting MVAR most of the time (even in high voltage scenarios). Appropriate **setting** change of UAT-2 is to be done expeditiously. Also, till the rectification of UAT-2 diverter switch, OTPC is requested to take necessary corrective action so that net MVAR injection by OTPC plant becomes zero when bus voltage at Palatana is 400 kV.

In 175th OCC meeting, OTPC informed that during the shutdown of the units of Palatana in the upcoming months, the issue **of** diverter switch of UAT-2 will be rectified. NERLDC requested that till the time UAT-2 is rectified, net MVAR injection by the Palatana plant above 400 kV should be maintained zero when bus voltage at Palatana is 400 kV. ED, NERLDC requested OTPC to intimate the OEM so that absorption by the units will be according to the capability curve.

OTPC may please intimate the status

D.5 Opening of One phase of Jumper at Tower No.2 of 132 kV PK Bari-PK bari line on 04th Feb'21

Joints were observed in all three phases of jumpers as per pictures shared by SLDC, Tripura. It is generally advised to avoid joints, as joints are the weak points and leads to formation of hotspots in due course of time. In view of importance of the mentioned line, proper checking and tightening of jumpers needs to be expedited at the earliest for safe & reliable operation of NER grid.

The 175th OCC forum requested TSECL to confirm if joints are present throughout the line or only at Tower No.2.

TSECL may please intimate the status.

AGENDA ITEMS FROM NERLDC:

D.6 Commissioning of second circuit of 220kV Balipara-Sonabil:

With the full evacuation of power (4x150MW) from Kameng HEP, overloading of 220 kV Balipara-Sonabil S/C has been escalated limiting the NER-ER transfer capability. Since the monsoon season is also nearing, it is important to expedite the commissioning of the second circuit of 220 kV Balipara -Sonabil S/C for safe evacuation of power from Kameng HEP without restricting the NER-ER TTC.

NERLDC may please deliberate.

D.7 Status of 132kV Pare-North Lakhimpur D/C with one circuit LILO-ed at Nirjuli:

Sterlite Power is requested to share the updated status of commissioning of 132 kV Pare-North-Lakhimpur D/C with one circuit LILO-ed at Nirjuli for supply of power

from Pare HEP to North-Lakhimpur area of Assam as presently North-Lakhimpur area is fed from one radial link of 132 kV Biswanath Chariali-Pavoi-Gohpur-North Lakhimpur.

NERLDC may please deliberate.

D.8 Status of Actual Effective Thermal Capacity of Assam, Tripura:

The All India Demand Met is increasing rapidly since October 2020. The peak demand met had touched around 189 GW on 30.01.2021. It is also envisaged that the peak demand is likely to touch around 210 GW during 2021-22.

To cater to this increasing trend in demand, it has become essential to assess the actual availability of conventional generating stations. As per information available with CEA, around 15 GW capacity of conventional generating station was out of bar since last one year.

Ministry of Power, Govt. of India vide enclosed letter no: 5/1/2021-OM dated 10.02.2021 had written to Principal Secretary (Power), Govt of Assam and Principal Secretary (Power), Govt of Tripura to furnish the details of the actual effective thermal capacity which can be utilized to meet the power demand on National level and the State level.

It is requested to intimate the status regarding furnishing of the required details.

NERLDC may please deliberate.

Metering Agenda

D.9 Faulty SEM replacement and SEM installation at new locations

100 SEMs and 20 DCDs had been procured. List for replacement offaulty SEMs and location for new SEM installation had been submitted by NERLDC vide earlier OCCMs. All locations as per the list could not be considered due to the requirement of SEMs for the Sterlite & KMTL on-going projects and hence some priority basis locations were decided, and work is under progress.

List for locations for distribution of DCD was also submitted vide earlier OCCMs and most of them had already been distributed.

In MoM of 40th CCM, NERTS provided the status of completion of SEM replacement/installation and DCD distribution. List attached at **Annexure-D.9**

NERTS may please intimate the status.

D.10 SEMs to be procured for STERLITE and KMTL on-going projects:

It was decided that additional 50 nos. of SEMs needed to be procured before completion of Sterlite & KMTL projects. However, that couldn't be done and SEMs required for those projects handed over from earlier procured 100 SEMs on need basis.

NERTS placed quantity variation order for procurement of 50nos. of SEMs and 10 nos. of DCDs based on the decision of the Forum. In 40th CCM, NERTS intimated that this procurement is expected to be completed by Feb 2021.

NERTS is also requested to provide the details of SEM & DCD diverted to Sterlite & KMTL projects.

NERTS may please intimate the status.

D.11 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

In 175th OCCM NERTS informed that the procurement process has been initiated and the target LoA date is Mar'21.

NERTS may please intimate the status.

D.12 SEM time drift:

Time drift more than 5mins observed in Biswanath Chariali Substation, SEM no. NP-9678-A, NP-8801-A, NP-7601-A (Pole-1), NP-5798-A (Pole-2) and other meters also having time drift. Requested to take necessary action as these SEMs are very important for accounting of Inter-regional exchanges.

NERTS may please intimate the status.

D.13 Collection of SEM data:

1. Budhjungnagar (TSECL) end of 132kv Budhjungnagar (TSECL)-SM Nagar (Sterlite) line,
2. SM Nagar (TSECL) end of 132kV SM Nagar (TSECL)- SM Nagar (Sterlite),
3. PK Bari (TSECL) end of 132kV PK Bari (TSECL)- PK Bari (Sterlite) line,
4. Ambassa (TSECL) end of 132kV Ambassa (TSECL)-PK Bari (Sterlite) line

Data of the above mentioned newly charged lines not received from TSECL (SLDC, Agartala).

As per regulations SLDC, Agartala should take necessary action for sending the data to NERLDC. However, due to non-availability of DCDs in most of the Substations of Tripura SEM data is being sent to NERLDC by NERTS. Forum may find out suitable solutions for sending SEM data to NERLDC of the above-mentioned lines.

Deliberation of the 175th OCCM:

Due to existing shortage of DCDs, same cannot be provided to Tripura for some time for new locations. This creates difficulty in getting SEM data from Budhjungnagar, Ambassa, PK Bari and SM Nagar. Matter was discussed and it was decided that during the interim period POWERGRID, NERTS will provide readings for all the SEMs installed at PK Bari S/s and SM Nagar S/s of Tripura and Sterlite will provide

Agenda for 176th OCC Meeting to be held on 19th March, 2021
readings for all the SEMs installed at Budhjungnagar S/s and Ambassa S/s of Tripura.

Issues related to data collection at 132kV Ambassa S/s for Ambassa (TSECL) end of 132kV PK Bari (Sterlite)

SEM details at 132kV Ambassa (TSECL) S/S: SEM No. NP-9934-A, Make- L&T, CT Ration- 400/1, PT Ration- 132kV/110V was declared by TSECL as per the relevant format of FTC procedure for FTC purpose. Accordingly, the line was allowed to charge and presently is in service.

However, Sterlite informed that they are unable to send the SEM readings of Ambassa end (NP-9934-A) due to non-availability/ installation of the SEM.

132 kV Ambassa (TSECL) - PK Bari (Sterlite) is accounted as drawal point of Tripura and installation/healthiness of the SEM is most important. As gathered verbally from SLDC, Tripura the SEM was removed due to some CT issue, but any written confirmation is yet to be received. Tripura may explain.

NERLDC may please deliberate.

Any other item:

Date and Venue of next OCC

Monthwise category wise consumption for FY 2020-21 (April'20-Jan'21)

Sl No	Category	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21
	LT CATEGORY										
1	Jeevan Dhara	28.4	29.8	32.8	35.4	37.1	39.3	34.7	34.1	34.7	33.5
2	Domestic A	211.3	237.0	249.6	286.0	317.1	336.9	317.5	307.6	238.1	250.0
3	Domestic B	24.2	28.5	34.5	37.7	42.1	48.8	43.2	41.8	28.4	31.2
4	Commercial	51.4	42.1	48.5	54.6	55.7	60.8	64.4	65.5	58.4	56.4
5	General Purpose (Non Commercial & Non Domestic Users)	8.2	7.3	8.7	8.6	8.8	8.9	8.6	9.1	8.5	8.5
6	General Purpose (Govt. Primary & Secondary/ Higher Secondary Schools)					0.4	0.6	0.5	0.6	0.6	0.6
7	Public Lighting	1.5	1.2	1.6	1.5	1.6	1.6	1.5	1.4	1.5	1.7
8	Agriculture	4.6	3.1	1.4	1.4	1.3	1.4	1.2	1.3	1.1	1.8
9	Small Industries (Rural)	6.2	4.5	5.3	5.2	4.9	5.5	4.9	5.8	5.3	6.8
10	Small Industries (Urban)	2.3	1.4	2.0	2.2	2.6	2.4	2.5	2.5	2.3	2.7
11	Temporary Supply (Domestic)	0.0	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0
12	Temporary Supply (Non-domestic)	0.3	0.2	0.3	0.2	0.2	0.9	0.3	0.8	0.4	0.6
13	Temporary Supply (Agriculture)	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.6
14	Electric Vehicle Charging Station (LT)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	HT CATEGORY										
15	Domestic	1.4	1.4	1.7	1.9	2.2	2.2	2.0	2.1	1.3	1.3
16	Commercial	23.7	16.1	21.2	24.9	23.7	28.3	30.5	32.1	25.3	23.7
17	Public Water Works	6.4	5.3	6.0	5.3	6.4	6.0	6.0	5.8	6.0	6.2
18	Bulk Supply(Govt.Education)	4.9	3.6	4.2	5.2	5.2	6.1	5.5	5.6	4.4	4.5
19	Bulk Supply(Others)	27.5	24.7	29.1	33.8	37.0	38.7	36.9	36.5	27.8	27.6
20	HT Small Industries	1.4	0.6	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.4
21	HT-I Industries (above 50 kVA to 150 kVA)	5.3	2.1	4.0	5.0	4.8	5.3	5.5	5.7	4.6	6.0
22	HT-II Industries above 150 kVA (Option I : TOD)	60.5	27.2	62.8	70.0	58.2	61.7	63.4	60.2	32.2	58.7
23	HT-II Industries above 150 kVA (Option II : Non TOD)					3.8	5.2	12.3	13.6	40.4	18.2
24	Tea, Coffee & Rubber	17.5	18.0	30.8	44.3	59.8	57.0	66.9	64.8	55.0	27.8
25	Oil & Coal	4.7	4.9	5.2	5.8	6.3	5.5	4.9	5.7	12.0	6.5
26	HT Irrigation (above 25kW) (30 kVA)	1.2	1.0	0.9	0.6	0.7	0.8	0.6	0.7	0.7	0.7
27	HT Temporary Supply	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.5	0.1	0.0
28	HT Electric Crematorium	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	HT Railway Traction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	HT Electric Vehicle Charging Station	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL	493.1	460.2	551.8	631.2	681.3	725.3	715.6	704.8	590.4	577.1

Note: The above data are unaudited & may be used for the purpose of trend analysis only

The status of SEM distribution list is attached herewith.

Sl. No.	SUBSTATION	Name of Substation responsible	Meter No.	Feeder Name	Meter Type	Remarks	Status
1	AZARA	Bongaigaon SS	NP-9456-A	AZARA END OF 400 KV BONGAIGAON	LNT	Approx 7 mins retard	Completed
2	AZARA	Bongaigaon SS	NP-9457-A	AZARA END OF 400 KV SILCHAR	LNT	Approx 6 mins retard	Completed
3	SARUSAJAI	Misa SS	NP-8489-A	132kv SARUSAJAI-UMTRU FEEDER	LNT	Approx 8 mins retard	
4	SARUSAJAI	Misa SS	NP-8492-A	S'SAJAI END OF 132kv UMTRU FDR-2	LNT	Defective meter	
5	DULLAVCHER-RA	Badarpur SS	NP-9438-A	DULLAVCHERRA END OF DHARMANAGAR FDR	LNT	Approx 6 mins retard	Completed
6	MISA	Misa SS	NP-8605-A	MISA END OF 220kv MARIANI(AS) FDR	ELSTER		
7	MISA	Misa SS	NP-8641-A	MISA END OF 220kv KOPILI FDR -1	ELSTER		The feeders are out of service. Shall be connected once the feeders come in service
8	MISA	Misa SS	NP-8603-A	MISA END OF 220kv KOPILI FDR -3	ELSTER		
9	MISA	Misa SS	NP-8636-A	MISA END OF 220kv KOPILI FDR -2	ELSTER		
10	HAFLONG	Haflong SS	NP-8656-A	HAFLONG(PG) END OF JIRIBAM FDR	ELSTER		Completed
11	MARIANI	Mariani SS	NP-8596-A	MARIANI(PG) END OF 220kv KATHALGURI FDR	ELSTER	Raw Data does not convert	
12	SILCHAR	Silchar SS	NP-8664-A	SILCHAR (PG) END OF 132kv SRIKONA (ASEB) FDR -1	ELSTER		Completed
13	SILCHAR	Silchar SS	NP-8665-A	SILCHAR (PG) END OF 132kv SRIKONA (ASEB) FDR-2	ELSTER		Completed
14	SILCHAR	Silchar SS	NP-8666-A	SILCHAR (PG) END OF 132kv HAILAKANDI-11 (D'CHERA) FDR	ELSTER		Completed
15	SILCHAR	Silchar SS	NP-8667-A	SILCHAR (PG) END OF 132kv HAILAKANDI-1(P'GRAM) FDR	ELSTER		Completed

16	SILCHAR	Silchar SS	NP-8563-A	SILCHAR END OF 132 KV PK'BARI-2	ELSTER		
17	KOHIMA	Dimnapur SS	NP-9703-A	KOHIMA END OF KARONG FDR	LNT	Erratic Reading	Completed
18	JIRIBAM	Jiribam SS	NP-8645-A	JIRIBAM(MAN) END OF JIRIBAM(PG)FDR	ELSTER	21 mins retard	Completed
19	JIRIBAM	Jiribam SS	NP-8623-A	JIRIBAM(PG) END OF BADARPUR FDR	ELSTER	12 mins retard	Completed
20	YUREMBAM	Imphal SS	NP-6951-A	YUREMBAM-KARONG FDR	LNT	Approx 10 mins advance	Completed
21	IMPHAL	Imphal SS	NP-8672-A	IMPHAL(PG) END OF LOKTAK-2 IMPHAL(PG)	LNT	Approx 9 mins retard	Completed
22	BGTPP	Bongaigaon SS	NP 9646-A	NTPC ICT-1 HV SIDE CHECK	LNT	Approx 16 mins retard	
23	LEKHI	Nirjuli SS	NP-9652-A	LEKHI END OF 132KV PARE FDR	LNT	Heavy Error	Completed

The status of DCD distribution list is attached herewith.

Sl.No.	Substation	State	Status
1	LEKHI	ARUNACHAL PRADESH	
2	AGIA	ASSAM	
3	AZARA	ASSAM	
4	BTPS	ASSAM	
5	SARUSAJAI	ASSAM	
6	TINSUKIA	ASSAM	
7	DULLAVCHERA	ASSAM	
8	KAHILIPARA	ASSAM	
9	YUREMBAM	MANIPUR	
10	UMTRU	MEGHALAYA	Completed
11	MENDIPATHAR	MEGHALAYA	Completed
12	BYRNIHAT	MEGHALAYA	
13	JIRIBAM	POWERGRID	Completed
14	DIMAPUR	POWERGRID	Completed
15	Agartala (79 Tilla)	TRIPURA	
16	Udaipur	TRIPURA	
17	Dharmanagar	TRIPURA	

NERTS intimated that the balance distribution shall be completed within Feb 2021.