

**North Eastern Regional Power Committee**  
**Agenda For**

**174<sup>th</sup> OCC Sub-Committee Meeting**

**Time of meeting : 10:30 Hrs.**

**Date of meeting : 19<sup>th</sup> January, 2021 (Tuesday)**

**Venue : “Hotel Nandan”, Guwahati.**

<b>A. CONFIRMATION OF MINUTES</b>
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**CONFIRMATION OF MINUTES OF 173<sup>rd</sup> MEETING OF OPERATION SUB-COMMITTEE OF NERPC.**

The minutes of 173<sup>rd</sup> meeting of Operation Sub-committee held on 11<sup>th</sup> December, 2020 at Shillong were circulated vide letter No. NERPC/SE (O)/OCC/2020/3052-3089 dated 30<sup>th</sup> December, 2020.

***The Sub-committee may confirm the minutes of 173<sup>rd</sup> OCCM of NERPC as no comments/observations were received from the constituents.***

<b>ACTION TAKEN -ITEMS</b>
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**B.1. ACTION TAKEN:**

**1. IMPLEMENTATION OF PROJECTS FUNDED FROM PSDF:**

The status as informed in 173<sup>rd</sup> OCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**	Line Differential Protection
Ar. Pradesh	Package-I (Diagnostic tools) Utilization certificate to be sent immediately. P-II (for PLCC & communication) LOA issued. Requisition for 30% to be sent immediately. P-III (Substation equipment) NIT by Dec'20  Station-wise status to be updated	60% disbursement by Dec'20. Requisition for 3 <sup>rd</sup> tranche sent.	-	TESG approval awaited	-
Nagaland	All completed except for PLCC package. Delayed due to COVID situation  Station-wise status to be updated.	Second tranche of disbursed. Requisition to be sent for 3 <sup>rd</sup> installment.	-	TESG approval awaited	Lines identified. Under DPR preparation stage.

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Mizoram	Completed. 10% remaining claim to be submitted ASAP.	Final 10% requisition submitted.	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.	LOA issued. Requisition to be sent for first tranche.	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.	Requisition to be sent for 20% & 60% 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.	Requisition sent for 60% on 09 <sup>th</sup> Dec'20.	-	Under finalization stage for LOA.	Lines identified. Under DPR preparation stage.
Meghalaya	MePTCL Completed in all respects.	Final tranche of 10% disbursed.	-	Under finalization stage for LOA.	WIP. Delayed due to COVID

	MePGCL – 10% claim to be submitted ASAP.	Project complete in all respects.			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 DECEMBER, 2020**

NERLDC shall present the operational performance for the month of December, 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.

<b>Plants</b>	<b>Reservoirs level in meter</b>	<b>MU content</b>	<b>Present DC (in MU)</b>	<b>No of days as per current generation</b>
Khandong + Kopili stg II			<b>1.16</b>	
Kopili			<b>0</b>	Will be “0” until further intimation.
Doyang			<b>0.55</b>	
Loktak			<b>2.48</b>	

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 99<sup>th</sup> 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 10<sup>th</sup> of the month, the

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shutdown availing agency would reconfirm to NERLDC on 7<sup>th</sup> 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 1<sup>st</sup> day of the following calendar month to the 30<sup>th</sup>/31<sup>st</sup> day of the same month.

***The sub-Committee may kindly discuss and approve the transmission line outages proposed by Constituents for 01<sup>st</sup>February, 2021 to 28<sup>th</sup> February, 2021 which is available in the website of NERPC.***

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

NETC and POWERGRID have submitted the outage data for the month of December, 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 168<sup>th</sup> OCC meeting.
- (ii) For permanent restoration NERLDC, NEEPCO, NERTS and NERPC would discuss and send common agenda for deliberation of NERPCTP.
- (iii) For temporary restoration NERTS to submit proposal for deliberation in OCC.

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

***Members may please discuss.***

**C.6 RGMO analysis for events dated 11<sup>th</sup> June, 2020**

Decisions as per discussions in previous meetings:

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

***Members may please discuss.***

**C.7 Charging of 33kV Khupi-Kimi line at 132kV and handing over of 132kV Balipara-Khupi:**

Deliberation of the 173<sup>rd</sup> OCC meeting:-

(i) 132kV Balipara-Khupi line Joint inspection by NEEPCO & DoP Ar.Pradesh has been completed as well as the bays at Balipara and 132kV Khupi S/Sn. Few technical issues have been observed which are expected to be rectified by 15-12-2020. Subsequently the line would be taken over by DoP Ar. Pradesh.

(ii) For 33kV Khupi-Kimi line Joint Inspection comprising of members from NERLDC, NEEPCO, DoP Ar. Pradesh and NERPC would be carried out in Jan'20.

***Members may please discuss.***

**C.8 Shutdown of OTPC units:**

**A. OTPC Block-2 Shutdown: From 1<sup>st</sup> March 21 to 30<sup>th</sup> March 21**

For GTG-2 Rotor Inspection and replacement, HRSG-2 License renewal and maintenance work in Steam Turbine-2

Block-1 will be in service at Full Load till 22<sup>nd</sup> March 21.

**B. OTPC Block-1 Shutdown: From 23<sup>rd</sup> March 21 to 27<sup>th</sup> April 21**

For GT-1 Major inspection (MI), HRSG-1 License renewal and maintenance work in Steam Turbine-1.

Block -2 will be started on 31<sup>st</sup> March 21 and will be on full load w.e.f. 1<sup>st</sup> April 21.

**C. Common SD for OTPC Block-1 and Block-2: From 23<sup>rd</sup> March 21 to 30<sup>th</sup> March 21**

To facilitate ONGC Piggings activity and OTPC Block -1 & 2 control system upgradation.

No generation will be from OTPC Palatana from 23<sup>rd</sup> March to 30<sup>th</sup> March 21.

***Members may please discuss.***

**AGENDA ITEMS FROM NERLDC:**

**C.9 Actual generation incorporation in schedule during any backing down incident:**

AGTCCPP generation was backed down during shutdown of 400kV Silchar- Azara on 07.12.2020, 17.12.2020, 20.12.2020. During these AGTCCPP wanted the actual generation to be provided on the same day. A time period needs to be finalised as when the actual generation shall be incorporated in schedule.

***NERLDC may please deliberate.***

**C.10 Changing Declared Capacity during emergency or forced shutdown of generating units:**

It has been observed that sometimes due to sudden downstream issue Pare machine were taken in forced outage. But the required DC revision was not done immediately by Pare for which the states have to bear the deviation during that time.

***NERLDC may please deliberate.***

**C.11 RHEP Bus 1 shutdown extension:**

RHEP Bus 1 shutdown was approved on 17.12.2020 from 10:00hrs to 12:00hrs with all elements being transferred to BUS-2 in online mode without outage of any element. But during Shutdown, RHEP failed to perform online mode transfer. Also the Bus Shutdown was not returned and extended to 4 January 2021 without approval from NERPC.

***NERLDC may please deliberate.***

**C.12 Non availing of charging code:**

Charging of ISTS line without code:

132kV Melriat(PG)-Zuangtui tripped from Mizoram end and Mizoram charged the line without taking code from NERLDC. Such practice should be strictly avoided in future.

Availing opportunity shutdown without intimation to NERLDC:

**PGCIL on 132kV Main Bus at BiswanathChariali (Without intimation to NERLDC)**

-The shutdown of 132kV Main Bus at BiswanathChariali was approved from 06:00 to 10:00hrs on 27.12.2020. PGCIL has availed opportunity shutdown without intimation to NERLDC. The opportunity shutdown was returned at 10:29hrs which led to huge load restriction at Assam.

**NEEPCO (With intimation to NERLDC)** – Planned Shutdown of 132 kV R.C.Nagar - Kumarghat Line was availed by POWERGRID for dismantling and erection works for GIS augmentation of Kumarghat SS which was approved from 08:00 hrs to 16:00 hrs on 14.12.2020. Opportunity shutdown of the line was availed by AGTCCPP for checking of auto-reclosing circuit and relay testing.

POWERGRID returned the shutdown at 16:49 hrs on 14.12.2020 after completion of the works at their end. The shutdown was returned at 21:20hrs.

Availing of NERLDC real time code for generation unit switching:

“The code issued by NERLDC for opening / restoration of the element signifies such approval only from the system point of view. Notwithstanding anything contained in safety measures and other switching operations to be carried out locally. The related line/sub-station personnel would be responsible for ensuring all safety precautions while opening /closing of any element to avoid any threat to operating personnel and equipment.” local safety measure and other switching operation to be ensured locally.

***NERLDC may please deliberate.***

**C.13 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.

***NERLDC may please deliberate.***

**C.14 Step Response Test and Reactive Power Capability Test of Kameng HEP:**

As per the Provisional Approval for Synchronisation of Unit 3 & 4 of Kameng HEP issued by NERLDC on 18.12.20, it was stated that Reactive Power Capability test, step response test and PSS tuning for Unit 1, 2, 3 and 4 of Kameng HEP is to be completed prior to Trial Operation of Unit 3 and 4. NEEPCO may intimate the status and expedite the necessary tests.

***NERLDC may please deliberate.***

**C.15 Early installation of 420kV 80MVAR B/R at RHEP:**

As per 7th Meeting of Standing Committee on Power System Planning of North-Eastern Region(SCPSPNER),it was agreed that NEEPCO would install 1x80 MVAR,420 kV Bus Reactor along with associated GIS bays at Ranganadi. The same was approved in the 19th TCC & RPC Meeting held on 28th & 29th December'2018.

In the 1st Meeting of NERPC (TP)/2nd Meeting of NERSCT held on 8th Nov'19, a timeline of 18 months for implementation of the 1x80MVA,420 kV Bus Reactor was approved.

NEEPCO is requested to expedite the commissioning of the Bus Reactor as voltage rise issue is witnessed at Ranganadi throughout the year and gets more severe during the lean hydro period leading to difficulty in grid operation.

***NERLDC may please deliberate.***

**C.16 Commissioning of 132kV Loktak-Ningthoukong Ckt#II:**

As per the Minutes of 4th Standing Committee Meeting on Power System Planning of North Eastern Region held on 13th December 2014, it was mentioned by MSPCL that 132 kV Loktak-Ningthoukhong D/C is being planned and shall be implemented by Manipur as associated transmission system along with 132 kV Loktak-Renpang D/C for Loktak Downstream HEP (66 MW), which is being implemented by LHDCL, a joint venture of NHPC & Govt. of Manipur. As the second circuit of 132 kV Loktak-Ningthoukhong is very crucial for the reliability of Manipur Power System, MSPCL is requested to furnish the latest status of commissioning of the line and also the progress of other double circuit links in Manipur

***NERLDC may please deliberate.***

**C.17 Proposal to design islanding schemes for Capital loads of NER states:**

Continuous power supply in the capital areas of the respective states is of utmost importance for its normal functioning. Any incident of power supply failure in the capital cities causes severe disturbance to the economic activities and disrupts the life of its citizens. One such case occurred in the capital city of Maharashtra, Mumbai on the 13th of Oct'20 where power supply was disturbed for long hours.

All the SLDCs are requested to look into the designing of appropriate islanding schemes for their respective capital loads and coordinate with NERLDC along with providing all necessary information required to design the same. NERLDC is presently working towards developing islanding schemes for the capital cities. As first attempt, Islanding Scheme of Guwahati city considering Generation from BgTPP(NTPC) &

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Capital loads of Kahilipara, Dispur, Kamakhya, Sisugram, Sarusajai, Narengi, Jawaharnagar, Azara, Boko areas is under designing stage.

***NERLDC may please deliberate.***

**C.18 Revised Power evacuation from southern part of NER to Main grid during outage of both 400kV Silchar- Azara and 400kV Silchar – Killing**

Due to the addition of 400kV New Kohima- New Mariani DC and 315MVA ICT 2 at New Mariani to the grid, the Silchar gate flow has been revised from 50MW to around 250MW-300MW. Also the backing down of generation in the southern part of NER grid will be reduced depending on the real time system study.

***NERLDC may please deliberate.***

**AGENDA ITEMS FROM NERTS:**

**C.19 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 168<sup>th</sup> OCC where POWERGRID gave a presentation. NERLDC & NERPC also stressed the need for mobile substation

***Members may please discuss.***

**C.20 Re-instatement of 5 MVA,3-Phase 132/33KV Power Transformer at POWERGRID Kumarghat Substation:**

It may be noted that 5MVA,3-Phase- 132/33kV Power Transformer (Bharat Bijlee Make) at 132kV Kumarghat S/S is taken out of service due to ageing. The power transformer tripped due to Buchholz operation. On analysis, it was found that same was due to poor value of degree of polarization wrt insulation level of paper over windings. OEM intimated that there is no more support for repair or rectification as the power transformer was manufactured apx.39yrs ago. Hence it is proposed to procure a new 5 MVA transformer in the ongoing project NERSS VIII.

***NERTS may please deliberate.***

**AGENDA FROM AEGCL**

**C.21 Temporary non-availability of teleprotection for 132kV Badarpur-Kumarghat:**

As intimated by AEGCL the following arrangements are being done to establish teleprotection & telemetry for 132kV Badarpur-Karimganj-Kumarghat:

- Existing protection panel(BPL make) between Kumarghat and Badarpur to be shifted from Badarpur to Karimganj for establishing protection link between Karimganj and Kumarghat.
- A DPLCC panel (SIEMENS make) will be shifted to Badarpur PG GSS from Srikona(AEGCL) for the establishment of communication link between Badarpur and Karimganj

For this tele-protection shall not be available between Kumarghat and Badarpur between 8<sup>th</sup> to 12<sup>th</sup> February'2021.

***AEGCL may please deliberate.***

**AGENDA FROM NETC**

**C.22 Corrosion of towers in 400kV Silchar-Byrnihat-Azara D/C line traversing through highly polluted area near Byrnihat:**

A portion of 400 kV D/C Silchar-Byrnihat-Azara line is passing through a highly polluted area near Byrnihat. Because of such pollution, the porcelain insulators installed in towers of in this area during the construction time got damaged due to lightening flashover because of dust deposition on the insulators, which were later replaced with Polymer insulator.

Now, again due to this heavy pollution in the area, quite a no. of towers in the area have got rusted, out of which altogether 6 (Six) no. of towers viz. tower no. 448, 554, 580, 581, 582& 583 have got severely affected and suffered intensive corrosion. (Photographs enclosed for ready reference). If such corrosion continues, there is a chance that the entire towers may collapse in near future due to damage of the tower stub & members. Therefore, to avoid further corrosion, NETC has taken up high tech painting in whole tower body of these towers by using zinc rich anticorrosive galvanized paint along with the additional coating of rust converter and acid resistant. For this work NETC has placed an award with an agency, with a work completion period of 5 month i.e. prior to the upcoming rainy season, considering the difficulties in such work in towers during rainy days.

By taking all safety precautions, the main tower body is being painted without taking any shutdown, but for the cross arm sections, the line shutdown is required, for a shutdown plan for Silchar-Byrnihat & Silchar-Azara ckt is enclosed herewith.

It is mentioned here that, the total cost of subject painting work including supply & execution is around Rs. 100 lakhs. NETC being a very small Organization, it will be difficult on its part to bear such heavy expenditure. Therefore, it is proposed that the booking of such heavy expenditure be met through PoC mechanism.

***NETC 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 173 <sup>rd</sup> OCCM	Latest status
1	132kV Dimapur - Imphal	NERTS	Charged on 10-12-20 at 16:00hrs	
2	63MVAR L/R for 400kV Palatana-SilcharCkt-I	OTPC	By Jan'21	
3	132kV Jiribam – Rengpang	MSPCL	Mar'21	
6	132kV Rangia-Rowta	AEGCL	by Feb'21	
7	132kV Mariani – Mokokchung(out since April'2008)	AEGCL	Study results favourable. Insulator replacement to be taken up.	
8	FSC of 400kV Balipara – Bongaigaon-4(out since 02 <sup>nd</sup> Sep'20)	NERTS	Procurement involved. Tentatively by Mar'21	
9	132kV Roing-Pasighat (charged through ERS tower)	NERTS	Apr'21	
10	220kV Mariani-Mokokchung – I	NERTS	-	

**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 173 <sup>rd</sup> OCC meeting	Latest status
1	LILO of 132kV Surjamaningar-Budhjungnagar-I at Surjamaninagar(ISTS)	TSECL	Work completed. Charging by Dec'20**	
2	LILO of 132kV P.K.Bari-Ambassa at P.K.Bari(ISTS)	TSECL	Work completed. Charging by Dec'20**	
3	400kV Palatana-Surjamaningar D/C	NERTS	Jan'21	
4	400kV Silchar – P.K.Bari D/C	NERTS	Jan'21	
5	132kV Monarchak-Surjamaningar	TSECL	By Mar'21. Exact reasons for delay and status to be sent to CEA.	
6	PLCC for 132kV Loktak-Ningthoukong and 132kV Loktak-Rengpang	MSPCL	Included in R&U. By Mar'21	

7	Construction of 2 <sup>nd</sup> bay at Balipara for 220kV Balipara-Sonabil-2	AEGCL	OBD 30 <sup>th</sup> Dec'20 Completion by Aug'21	
8	Bay at 132kV Agia S/Sn for 132kV Agia-Nangalbibra-II	AEGCL	Bay completed. Damaged insulator in Assam side to be replaced. Subsequently line may be charged after clearance from MePTCL for Meghalaya section of the line.	
9	Upgradation of 132kV Lumshnong – Panchgram line	MePTCL	PSDF approval awaited.	
10	Diversion of 132kV Bawktlang-Sihhmui	NERTS	By Jan'21	
11	PLCC for 132kV Karong-Kohima	MSPCL	Letter sent to MD, MSPCL.	
12	400/220kV 500MVA ICT at Mariani	NERTS	Dec'20	

**Concerned utilities may please inform the status.**

**D.3 Upgradation of important 132kV links in TSECL system:**

132kV Surjamaninagar-Budhjungnagar & 132kV PKBari-Ambassa has been LILO'ed at 400/132kV Surjamaninagar(ISTS) and 400/132kV PKBari(ISTS).

In 173<sup>rd</sup> OCCM NERLDC presented a study wherein the following were highlighted:

- When 132kV Palatana –SMNagar is operated at 400kV then Bangladesh load cannot be catered with existing/to-be-charged 132kV SMNagar-SMNagar(ISTS) link.
- The 132kV SMNagar-SMNagar(ISTS)-Budhjangnagar link to be upgraded to HTLS for the entirety of the line in order to cater to Bangladesh load.
- Till the upgradation is done Bangladesh load shall be curtailed to 90MW or Tripura demand to 170MW.
- The 132kV PKBari-PKBari(ISTS)-Ambassa link also has to be upgraded to HTLS.

DGM, SLDC, TSECL informed that the estimate for HTLS upgradation of the said lines have been submitted for Government approval.

**TSECL may please intimate the status.**

**D.4 Utilization of Transfer Bus and Bus Coupler Breaker during rectification of Main Circuit Breaker for 132 kV Dimapur-Doyang line 2:**

Works - 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. In 172<sup>nd</sup> OCCM DGM, NEEPCO informed that OEM has been consulted and tentative completion is by Jan'21.

**NEEPCO may please intimate the status.**

**D.5 Testing of Primary Governor response of NER Generating units as per IEGC Cl.5.2(g):**

Schedule as agreed in the 173<sup>rd</sup> OCC meeting

<b>Region</b>	<b>Station</b>	<b>No. of generators</b>	<b>Schedule</b>	<b>Duration (days)</b>
NER	NEEPCO Ranganadi	3	26th Dec'20 to 30th Dec'20	5
NER	NEEPCO Turial	2	To be decided later	4
NER	NEEPCO-Monarchak	2	23 <sup>rd</sup> Mar'21 to 30 <sup>th</sup> Mar'21	8
NER	NEEPCO-Kopili	1	Under long shutdown	2
NER	NEEPCO-Khandong	2	1st Dec'20 to 4 <sup>th</sup> Dec'20	4
NER	NEEPCO- Pare	2	21st Dec'20 to 24 <sup>th</sup> Dec'20	4
NER	OTPC- 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 <sup>nd</sup> Feb'21 to 27 <sup>th</sup> Feb'21	6

***NERLDC may please intimate the latest status.***

**Metering Agenda**

**D.6 SEMs to be Procured**

In 171<sup>st</sup> 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.7 SEM time drift:**

The 172<sup>nd</sup> OCCM forum requested NERTS to replace the time-drift SEMs at the earliest.

***NERTS may please inform the status.***

**D.8 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.
- v. NERTS to expedite the implementation of Pilot.

***NERTS may please inform the status.***

**D.9 Second Meter List for replacement:**

In 173<sup>rd</sup> OCCM NERTS informed that out of 100 procured SEMs, only 10 SEMs are left. By the end of Jan'21, the replacement process would be completed. NERPC advised NERTS to provide list for already replaced SEMs to understand current scenario.

***NERTS may please inform the status.***

**D.10 New Meter and CMRI requirement:**

In 170<sup>th</sup> 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 39<sup>th</sup> CCM).

In 173<sup>rd</sup> OCCM NERTS assured to complete the procurement process by Mar'21.

***Members may please discuss.***

**D.11 SEM data collecting Laptop related issues:**

List of DCD distribution location has been provided in 172<sup>nd</sup> OCCM by NERLDC

***NERTS may please inform the status.***

**D.12 Procurement of SEM & DCD/Laptop for future requirements:**

In 172<sup>nd</sup> OCCM it was decided that 10 more nos. of CMRIs shall be procured along with the already estimated 125 nos. SEMs and 15 nos. CMRIs. Sr.DGM (AM), NERTS informed that under the existing contract, quantity variation clause shall be exercised.

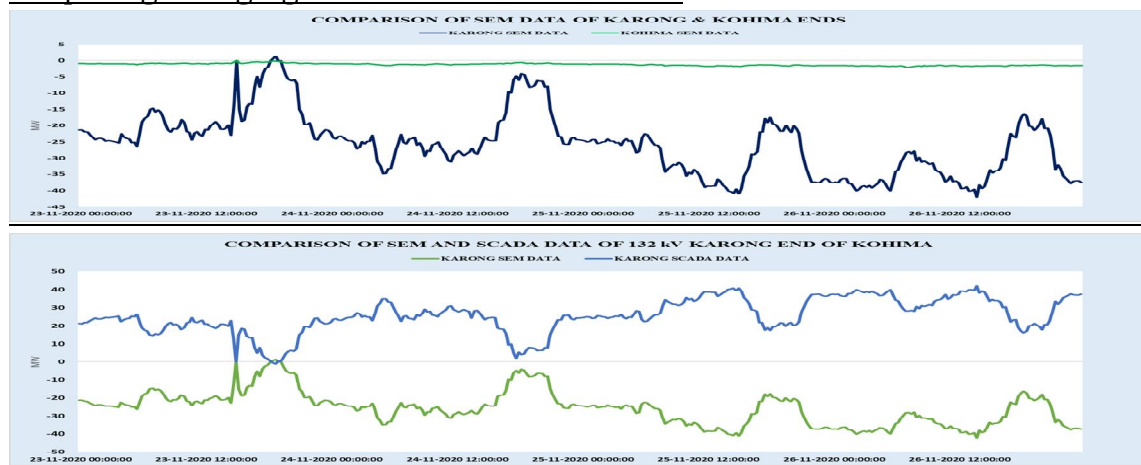
***NERTS may please inform the status.***

**D.13 Sign Reversal Problem:**

For sign reversal problem is persisting in the following lines the following were informed in the 171<sup>st</sup> OCCM:

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 - SDO, SLDC, DoP Nagaland informed that the SEM at Kohima has been replaced and the discrepancy is yet to be observed again after replacement. Further he also informed that the CT replacement process is underway.

Graph regarding Agenda D.18 of 172<sup>nd</sup> OCCM



Agenda for 174<sup>th</sup> OCC Meeting to be held on 19<sup>th</sup> January, 2021

In 173<sup>rd</sup> OCCM the forum decided that since SCADA reading is matching at both ends, the SCADA connection at Kohima has to be taken in series and extended to SEM. NERTS was requested to assist DoP Nagaland in this regard.

***Members may please discuss.***

<b>E. ITEMS FOR INFORMATION</b>
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**AGENDA ITEMS FROM NERLDC:**

**E.1 Black Start and Restoration Procedure:**

Black-start and Restoration Procedure of NER Grid 2020 will be published by NERLDC within January 2021. The draft document will be shared with all stakeholders for comments and feedback soon.

***This is for information only.***

**E.2 Draft Operating Procedure:**

Draft Operating Procedure for NER 2021 was sent to all NER utilities by mail for feedback. With the help of all the utilities the Operating Procedure has been finalised. The copy of Operating procedure shall be kept in the control room of all ISGS and SLDCs.

***This is for information only.***

**Any other item:**

**Date and Venue of next OCC**