

North Eastern Regional Power Committee

Agenda For

151st OCC Sub-Committee Meeting

Time of meeting : 10:00 Hrs.

Date of meeting : 14th December, 2018 (Friday)

Venue : "Hotel Nandan", Guwahati.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 150th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 150th meeting of Operation Sub-committee held on 14th November, 2018 at Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2016/4556-4591 dated 06th December, 2018.

The Sub-committee may confirm the minutes of 150th OCCM of NERPC as no comments/observations were received from the constituents.

ITEMS FOR DISCUSSION

B.1. ACTION TAKEN:

1. IMPLEMENTATION OF PROJECTS FUNDED FROM PSDF:

The status as informed in 150th OCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**
Arunachal Pradesh	10% fund requisitioned. Tender by Dec'18	Revised DPR submitted	-	DPR submitted for Techno-Economic Appraisal.

The entities may also be advised to furnish status 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.

2. Long Outage of Important Grid Elements:

Name of the Element	Name of Utility	Status as informed in 150 th OCC	Latest status
63MVAR Reactor at Byrnihat to replace with 80MVAR Reactor	MePTCL	7 th SCM MoM to be revised. MePTCL may initiate preparation of bid documents etc for the tendering process.	

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Repairing of R-ph bushing of 63MVAR L/R at Balipara for 400kV Balipara-Bongaigaon -II (out since 17.02.18)	NERTS	Bushing repaired, oil filtration is in progress and work will be completed by Nov'18	
Outage of 420kV 80MVAR L/R for 400kV Bongaigaon-NSLG-I at Bongaigaon - (out since 04.07.18)	NERTS	By Jan'19(Regional Spare will be utilized for restoration)	
132kV Dimapur - Imphal (out since 25.07.18)	NERTS	Expected restoration by Jan'19	
63 MVAR B/R-4 at 400kV Biswanath-Chariali(out since 27.04.18)	NERTS	Erection work in progress - By Dec'18	
132 kV, 20MVAR Bus Reactor at Roing out of service since 08:00 Hrs of 16.08.18 (Shutdown approved till 1600 Hrs of 31st August'18)	NERTS	By Nov'18	

Utilities may please intimate the latest status.

3. Furnishing of various data for reliable grid operation:

Data regarding	Status as of 150th OCC
DAS output for FRC calculation	Event date: 30.10.2018: Khandong, Palatana, Kopili, Ranganadi, Doyang submitted the data. Loktak, Pare and BgTPP not submitted.
Patrolling report(s) for T/L**.	Patrolling report and vegetation clearance self-certification to be immediately submitted for 132kV Balipara-Khupi, 132kV Dimapur-Kohima & 132kV Aizawl - Kumarghat

NERLDC may please inform the status.

5. DIFFERENCE IN ACTUALS VS LGBR:

Energy Requirement:

Name of State	Jun 18 (actual)	Jul 18 (actual)	Jul18 (LGBR)	Aug 18 (actual)	Aug 18 (LGBR)	Sep 18 (actual)	Sep 18 (LGBR)	Oct 18 (actual)	Oct 18 (LGBR)
Ar. Pradesh	70.76	72.49	66.28	76.34	77.02	74.16	71.19	70.06	77.25
Assam	913.96	998.64	952.10	1039.01	970.21	950.19	934.64	815.67	885.83

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Manipur	67.74	72.38	65.08	70.53	76.98	69.88	69.64	75.80	75.56
Meghalaya	143.28	169.75	155.00	162.17	159.00	150.14	164.00	144.61	166.00
Mizoram	43.66	46.53	45.43	58.96	44.80	58.04	39.37	70.64	44.19
Nagaland	78.16	82.22	80.84	80.88	79.25	80.49	76.88	74.27	69.66
Tripura	121.77	144.97	123.51	179.61	127.98	192.00	125.18	187.38	132.09

Energy Availability:

Name of State	Jul18 (actual)	Jul18 (LGBR)	Aug 18 (actual)	Aug 18 (LGBR)	Sep 18 (actual)	Sep 18 (LGBR)	Oct 18 (actual)	Oct 18 (LGBR)
Ar. Pradesh	77.75	99.88	81.81	96.23	81.12	82.62	67.90	77.45
Assam	975.84	992.22	991.95	967.37	987.64	859.96	772.79	898.78
Manipur	111.82	129.88	109.25	126.69	177.79	110.48	105.39	117.42
Meghalaya	293.16	312.29	285.36	322.71	276.17	308.96	200.13	274.43
Mizoram	85.38	97.31	92.74	99.89	111.76	89.77	106.29	83.22
Nagaland	79.00	99.30	84.88	99.50	81.24	87.96	68.17	88.06
Tripura	294.08	308.19	312.05	294.40	309.44	268.15	342.04	300.01

Demand:

Name of State	Jul18 (actual)	Jul18 (LGBR)	Aug 18 (actual)	Aug 18 (LGBR)	Sep 18 (actual)	Sep 18 (LGBR)	Oct 18 (actual)	Oct 18 (LGBR)
Ar. Pradesh	130.38	136.00	135.88	148	131.92	143	129.08	146.00
Assam	1862.54	1761.36	1833.85	1752.66	1865.26	1787.60	1785.42	1840.56
Manipur	174.16	162.83	177.32	173.10	184.39	168.04	187.28	175.61
Meghalaya	333.95	308.22	325.43	314.92	317.42	328.18	336.23	320.58
Mizoram	100.77	92.62	99.09	92.62	95.47	95.23	99.18	96.76
Nagaland	132.89	153.75	134.32	139.63	142.07	148.77	133.77	138.05
Tripura	298.12	322.71	291.86	327.32	296.01	359.46	269.32	312.39

B.2. OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING NOVEMBER, 2018

As per the data made available by NERLDC, the grid performance parameters for November, 2018 are given below:

NER PERFORMANCE DURING NOVEMBER, 2018

States	Energy Met (MU)		w.r.t. Oct,18 % inc (+) /dec (-)	Energy Reqr. (MU)		w.r.t. Oct,18 % inc (+) /dec (-)	% inc (+) /dec (-) of energy reqr vs met. In Nov,18
	Nov-18	Oct-18		Nov-18	Oct-18		
Ar. Pradesh	61.92	66.14	-6.38	62.61	66.76	-6.22	-1.10
Assam	694.25	809.08	-14.19	710.63	833.04	-14.69	-2.30
Manipur	71.22	70.86	0.51	72.27	71.55	1.01	-1.45
Meghalaya	162.38	146.70	10.69	162.38	146.70	10.69	0.00
Mizoram	57.08	62.20	-8.23	57.73	62.71	-7.94	-1.13
Nagaland	55.40	67.23	-17.60	63.74	75.57	-15.65	-13.08
Tripura	112.05	129.05	-13.17	113.16	130.28	-13.14	-0.98
Region	1214.30	1351.26	-10.14	1242.52	1386.60	-10.39	-2.27

States	Demand Met (MW)		w.r.t. Oct,18 % inc (+) /dec (-)	Demand in (MW)		w.r.t. Oct,18 % inc (+) /dec (-)	% inc (+) /dec (-) of Demand vs met. In Nov,18
	Nov-18	Oct-18		Nov-18	Oct-18		
Ar. Pradesh	128	125	2.40	138	138	0.00	-7.25
Assam	1525	1704	-10.50	1547	1785	-13.33	-1.42
Manipur	189	185	2.16	189	187	1.07	0.00
Meghalaya	352	336	4.76	352	336	4.76	0.00
Mizoram	102	97	5.15	102	99	3.03	0.00
Nagaland	135	131	3.05	139	134	3.73	-2.88
Tripura	258	269	-4.09	259	269	-3.72	-0.39
Region	2620	2700	-2.96	2672	2790	-4.23	-1.95

REGIONAL GENERATION & INTER-REGIONAL EXCHANGE IN MU

AVERAGE FREQUENCY (Hz)

Month---->	Nov-18	Oct-18
Total Generation in NER (Gross)	1355.751	1592.154
Total Central Sector Generation (Gross)	1023.114	1156.509
Total State Sector Generation (Gross)	332.637	397.224
Inter-Regional Energy Exchange		
(a) NER-ER	0.00	1.00
(b) ER-NER	358.23	405.33
(c) NER-NR	365.86	478.92
(d) NR-NER	0.00	0.00
© Net Import	-7.63	-74.59

Month---->	Nov-18	Oct-18
	% of Time	% of Time
Below 49.9 Hz	10.01	11.71
Between 49.9 to 50.05 Hz	80.54	79.34
Above 50.05 Hz	9.45	8.95
Average	48.31	49.97
Maximum	50.25	50.20
Minimum	49.69	49.69

C. OLD ITEMS

1. Status of Generating Units, Transmission Lines in NER:

During 149th OCC meeting, the status as informed by different beneficiaries is as follows:

SN	Items	Status as given in 150th OCC Meeting		Status as given in 151st OCC Meeting	
		Timeline for completion	Furnishing of detail parameters	Timeline for completion	Furnishing of detail parameters
a. New Elements					
1	400/220kV, 315 MVA ICT-1 of NTPC at Bongaigaon	By Jan'19	To be submitted to NERLDC.		

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2	Kameng HEP of NEEPCO two units (2 x 150 MW) Next two units (2x150 MW)	To be reviewed	Already submitted.		
3	400 kV D/C Silchar - Melriat line of PGCIL	Nov'18	To be submitted to NERLDC.		
4	400/220 kV 315 MVA ICT-II at Bongaigaon	Dec'18	Already submitted		
5	220/132 kV, 160MVA ICT-II at Balipara	ICT damaged in transit. To be reviewed	To be submitted to NERLDC.		
6	220/132 kV, 1x160 MVA ICT with GIS Bay at Kopili	Dec'18	To be submitted to NERLDC.		
7	33kV bay at 220kV Mariani(AS) S/Sn	Demand note for CTPT unit pending from Assam. To be expedited by APDCL. Latest status to be submitted ASAP.	Not applicable.		
8	33kV bay for 132kV Badarpur(PG) S/Sn	To be expedited by APDCL. Latest status to be submitted ASAP.	Not applicable.		
9	Dedicated 33kV feeder at Khliehriat Substation from Lumshnong.	By Nov'18	Not applicable.		
10	Replacement of 2x315 MVA ICTs with 2x500 MVA ICTs at Misa (PG)	ICT-I : Jan'19 ICT-II : Mar'19 Delay due to Tertiary re-arrangement	To be submitted to NERLDC.		
b. Elements under breakdown/upgradation					
13	Up-gradation of 132 kV Lumshnong-	Could not be updated due to absence of MePTCL			

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	Panchgram line	representative.	Not applicable.		
14	Switchable line Reactors at 400kV Balipara & Bongaigoan Ckt # 1 & 2	Completed except Bong#2 LR of Balipara which is under restoration. By 20.11.2018.	Not applicable		
15	PLCC Panels at Loktak end of Loktak - Ningthoukhong 132 kV feeder and Loktak - Rengpang 132 kV feeder	Dec'18	Not applicable.		
16	Upgradation of 132kV Silchar-Imphal to 400kV	To be kept on hold till restoration of 132kV Dimapur-Imphal**	To be submitted to NERLDC		
17	Replacement of CTs and installation of Bus Bar Protection at 220kV Misa	By Dec'18	Not applicable		
18	Upgradation of 132kV Bus bar at Umiam Stg-III to ACSR Zebra	MePGCL to send proposal to NLDC/NPC.	Not applicable		
19	Integration of existing bays with C264 RTU at RHEP by NEEPCO	By Jan'19	Not applicable		

** Only elements with target of completion till Jan'19 included in the above list. Rest shall be monitored in subsequent OCCM.

Concerned constituents may kindly intimate the status.

D. NEW ITEMS

D.1 Generation Planning (ongoing and planned outages)

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

Plants	Reservoirs level in meter as on 31-10-18	MU content	Present DC (in MU)	No of days as per current generation
Khandong + Kopili stg II			0.162	
Kopili			1.102	
Doyang			0.135	
Loktak			1.193	

The outage of other generating stations may be approved considering the present water levels in reservoirs.

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

D.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.

The sub-Committee may kindly discuss and approve the transmission line outages proposed by Constituents for December,2018-January, 2018 which is available in the website of NERPC.

D.3 Estimated Transmission Availability Certificate (TAC) for the month of August, 2018 - October, 2018:

NETC and POWERGRID have submitted the outage data for the month of August, 2018 - October, 2018. So the attributability of outage of the said elements may please be finalized.

NERTS has informed that in order to process the monthly energy billing in time , it is desirable that within 30(thirty) days availability certificate is issued. It is to be deliberated how to issue the availability certificate within 30(thirty) days.

Members may please discuss.

D.4 Assessment of Total Transfer Capability (TTC), Transmission Reliability Margin (TRM) and Available Transfer Capability (ATC) by SLDC on respective Inter-State Transmission Corridor

Updated PSS/E Base Cases have been **mailed to all the SLDCs on 02.12.18**. All SLDCs are requested to assess the Total Transfer Capability (TTC), Transmission Reliability Margin (TRM) and Available Transfer Capability (ATC) for the month of **January 2019** using these cases and submit the study cases and results to NERLDC by **22.12.18**.

NERLDC has assessed the state control area wise, state subsystem wise and group of control-area wise TTCs for NER Grid. The study results will be presented during the meeting. SLDCs are requested to check the TTC of their control areas as computed by NERLDC and **give comments, if any, by 22.12.18**.

If no comments received from any SLDCs of NER, TTC, ATC & TRM figures of State control area and group of control areas as assessed by NERLDC will be considered as final and may be uploaded on website.

As per discussions in 122nd OCC meeting of NERPC, all SLDCs of NER may host the assessed TTC / ATC / TRM figures on their websites for information dissemination.

Members may discuss.

D.5. Update on Real Time Energy Assessment for Effective Grid Management:

In 150th OCC meeting DGM(MO), NERLDC informed that under pilot project, one TARA device has been installed at Azara S/S on 12.11.2018 with the SEM of Silchar feeder. DGM(MO), NERLDC, AGM-Assam SLDC, Manager(MO)-NERLDC and CDAC representatives were present during the process.

M/s CDAC is in the process of installing GUI at NERLDC server and after that continuous data receipt for two weeks would be tested. Subsequent to that, installation process in all NER locations would commence.

Regarding SIM for TARA devices, it was decided that NERPC would write to the nodal officers and respective department heads for procurement of SIM and handing over of the same to M/s CDAC at the earliest.

The pilot project at Azara is operating successfully. NERPC has written to all constituents vide letter dated 03.12.2018 to purchase SIMs as identified. NERTS has been advised to complete installation/replacement of SEMs as advised.

NERPC/CDAC may please update the status.

D.6. Recording of operational instructions over VOIP in RLDC:

In 150th OCCM NERTS informed that the materials have been dispatched by party and are now in transit.

NERTS may please intimate the latest status.

D.7. Ensuring proper functioning of Under Frequency Relays(UFR) & df/dt Relays:

In 7th NPC meeting held on 08.09.17 it was agreed that mock test is good enough to test the healthiness of the UFR & df/dt relays. The frequency of site inspection was proposed to be upto six months. RPC may carry out periodic inspection, in line with provisions of IEGC and furnish inspection reports to NPC.

Discussions as per previous meetings:-

- Inspection for Mawphlang completed.
- Inspection for Baghjap, Sankardevnagar and Sipajhar under Assam would be tentatively done on 1st/2nd week of Dec'18.

NERPC may please intimate the latest status.

D.8. VSAT for power system communications in NER:

As per discussion in previous meetings:

- Leased Line Connectivity has been explored by NERTS for Roing, Tezu & Namsai with recurring expenditure amounting to INR 28 lakhs.
- VSAT Pilot project to be executed at Byrnihat station. The data would be transmitted from Byrnihat to KPTCL (via satellite) to SRLDC to NLDC to NERLDC. This would be kept in monitoring mode in the interim.
- NERPC to take up with proper authorities for funding of VSAT in NER from suitable sources.
- A visit to KPTCL would be done on the 10th of December, 2018 with members from NERLDC, AEGCL and NEEPCO to assess the technical feasibility.

NERPC/NERLDC may please intimate the status.

D.9. DIMAPUR_PG Voice communication and telemetry out since Feb'18.

In 150th OCCM NERTS informed that Dimapur communication would be restored by Dec'18.

NERTS may please intimate the status.

D.10 Update on PDMS:

The following were decided as per deliberation in the previous meeting(s):-

- All utilities to inform the name and details of SPOC (Single Point of Contact).
- Assam would be the Pilot state.
- M/s PRDC would organise a training program on PSCT tentatively on the first week of December, 2018. AEGC/ APDCL would host the same.

Further M/s PRDC has informed that for Operational Load Flow Study to be conducted by them selection of time ahead date and time stamp is required alongwith the following data:

- MW and MVAR flows for all station incomers and outgoing lines, transformers, reactors, cap banks and load points till 132 kV or 66kV. SCADA snapshot for that particular time stamp from NERLDC and state wise SLDCs.
- Voltage at all buses or nodes.
- Transformer tap positions.

NERPC may please deliberate.

D.11 Non- reporting of RTU at RHEP:

Decision as per deliberation(s) in previous meetings:

- The bays on S900 RTU at RHEP have to be transferred to the existing C264 RTUs for 132kV RHEP-Chimpu D/C. For this MFTs are to be procured by NEEPCO. This has to be accelerated.
- NEEPCO to extend data upto the nearest wideband location through PLCC. ABB would visit RHEP by 21.11.2018 and the work would be completed by Nov'18.
- Scheme for connecting RHEP via BNC has been proposed to NEEPCO by POWERGRID, NEEPCO may review and take up.

NEEPCO/NERTS may please intimate the status.

D.12 Telemetry Availability Status at NERLDC from Constituents (as on 07-12-2018):

Sl. No.	Name of the Constituents	Total Analogue Data points	Total Digital Data points	Total Data Points	Analogue Data Points Reporting	Digital Data Points Reporting	Total Reporting	Total Percentage of data Availability
1	Ar. Pradesh	106	152	258	7	11	18	6.97%
2	Assam	1217	1731	2948	406	459	865	29.34%
3	Manipur	180	255	435	93	150	243	55.86%
4	Meghalaya	409	388	797	168	46	214	26.85%
5	Mizoram	71	50	121	9	7	16	13.22%
6	Nagaland	237	270	507	7	3	10	1.97%
7	Tripura	524	715	1239	161	139	300	24.21%
8	PGCIL	628	1082	1710	414	761	1175	68.71%
9	NEEPCO	202	286	488	138	155	293	60.04%
10	NTPC	31	49	80	23	49	66	90%
11	OTPC	42	85	127	42	85	127	100%
12	NHPC	18	29	47	17	27	44	93.61%
	NER	3647	5063	8710	1468	1865	3333	38.27%

NERLDC may please deliberate.

D.13 Sudden change in DC of BgTPP and Kopili on 2nd November'18.

On 02-Nov-18, NERLDC have experienced huge difficulty in managing the over drawl of Assam/Tripura /NER during full day. The reason for the same is related to abrupt change in DC by BgTPP & Kopili.

In case of BgTPP, it has been observed that the day ahead DC declared during entitlement by BgTPP was 465 MW. However, in R1 they have suddenly reduced their DC to 232 MW which is half of their previous day DC. In such a situation it becomes difficult for the beneficiaries to manage their schedule as well as load pattern.

In case of Kopili, it has been observed that they have suddenly changed their DC due to non -revival of shutdown of Kopili Unit-4. As a result, 41 MW of deviation occurred in NER region which could have been controlled if the shutdown were planned properly.

In 150th OCCM NEEPCO informed that on 02.11.2018 there was no change in DC from NEEPCO side. Further, he clarified that Unit#4 was under shutdown which was returned on 16:00hrs. However at 17:00hrs when it was tried to be synchronized rotor earth fault was detected. Accordingly DC for 03.11.2018 was modified by 23:00hours.

It was decided that the matter would be discussed in next OCC with detailed data.

Members may please discuss.

D.14 Utilization Certificate for Deposit Work of Construction of 33kV Transmission Line and Associated Bay from 220kV Mariani S/S(ASEB) to 220kV New Mariani S/S of POWERGRID

An amount of Rs.100,34,749.00 was deposited to ASEB (vide DD N.o. 059528 Dated 04.08.2015 of Rs.7,81,032.00 + DD No. 914008 Dated 06.01.2014 for Rs.92,53,717.00 both Axis Bank) for the deposit work. As on date POWERGRID have received provisional utilization of Rs.59,34,884.00 as detailed below:

- i) Rs. 45, 47,620.00 from DGM, APDCL.
- ii) Rs.13, 87,264.00 from AGM, 22kV Gid S/S AEGCL.

Balance utilization to be Received : Rs.40,99,865.00

The above work has been completed long back, but final utilization certificate has not been issued till date inspite of repeated requests by POWERGRID. ASEB to resolve the issue at the earliest for issue of final utilization certificate.

In 150th OCCM APDCL was requested to issue the utilization certificate at the earliest.

APDCL may please intimate the status.

AGENDA ITEMS FROM NERTS:

D.15 Delay in commissioning of 400/220kV ICT#2 and associated GIS bays at Bongaigaon and 220kV Line Bays at Salakati (for 220kV D/C Bongaigaon-Salakati-Line).

Continuous shut down for 400/220/33kV ICT#1 was availed w.e.f 16-11-18 for bay up-gradation work to GIS at 400kV Bongaigaon S/S. However due to development of defect in Circuit Breaker of GIS bay , the Transformer cannot be put into service through GIS bay as the Circuit Breaker(mechanism) taken back to the supplier works for repair/rectification. Hence, the ICT will be charged with original arrangement/configuration till readiness of GIS bay.

NERTS may please deliberate.

AGENDA ITEMS FROM NERLDC:

D.16 Submission of Load Forecast Data on (D-2)th day by constituents

Study of Optimization of Generation Despatch of ISGS of NER is being carried out by NERLDC on daily basis using GAMS (General Algebraic Modeling System). The study results have been found to be helpful for day-ahead scheduling.

In order to facilitate the study, the forecasted load data is required to be received at NERLDC on (D-2)th day, D being the day for which the study is being conducted. It is therefore, requested to send the load forecast data 2 days ahead instead of 1 day ahead that is being followed till date.

NERTS may please deliberate.

D.17 Review of SPS in NER:

Several new elements and units in southern part of NER have been commissioned in recent times. Considering the new network topology and change in load generation pattern in southern part of NER, there is a need to review all the SPS which are currently operational in NER. It is also to be noted that studies should take into account addition of generation of Turial and drawl of Bangladesh.

Low drawl of Bangladesh is also a concern. Such an event occurred on 23rd November'18 where 400 kV Silchar- Azara was under planned shutdown and the southern part of NER grid was connected through 400 kV Silchar- Byrnihat (336 MW), 132 kV Badarpur- Khliehriat (PG) (70 MW) and 132 kV Jiribam(PG)- Haflong(PG) (23 MW). 132 kV Dimapur(PG)- Imphal(PG) was under continuous shutdown. It has been observed that Bangladesh drawl was only 56 MW. In such case the southern part of NER grid is not safe in case of tripping of 400 kV Silchar- Byrnihat even after SPS are under operation.

Immediate review all the SPS which are currently operational in NER is essential.

NERTS may please deliberate.

D.18 CT ratio of Transmission lines and enhancement of loadability of lines in NER:

As deliberated in 125th OCC meeting held on 14th September, 2016 at Guwahati, double jumpering of bay and line before the CT upgradation work was to be completed, so that full capacity of CTs can be utilized for loading the lines. The status as per 143rd OCC Meeting held on 12th April'18 are as follows:

Name of the line	CT Ratio at either end current)		CT Ratio at either end (required)		No. Of CTs required		To be completed by
	Stn A	Stn B	Stn A	Stn B	Stn A	Stn B	
132 kV Jiribam- Aizwal	400/1	400/1	600/1	600/1	3 by PGCIL	4 by PGCIL	June'18
132 kV Jiribam- Haflong	400/1	400/1	600/1	600/1	3 by PGCIL	4 by PGCIL	June'18
132 kV Khandong - Umrangso- Haflong	300/1	400/1	600/1	600/1	3 at Khandong by NEEPCO, 3 at Umrangso by AEGCL	3 at Umrangso by AEGCL, 3 at Haflong by PGCIL	NEEPCO, PGCIL- Complete AEGCL- To update
132 kV D/C Doyang - Dimapur	300/1	600/1	600/1	600/1	3 by PGCIL & 6 by NEEPCO		PGCIL- Sep'18 NEEPCO- To update
132 kV Khandong - Khliehriat- I	300/1	300/1	600/1	600/1	3 by NEEPCO	3 by PGCIL	PGCIL- Sep'18 NEEPCO-

							done
132 kV Khandong – Kopili I & II	300/1	300/1	600/1	600/1			PGCIL- Sep'18 NEEPCO- done
132kV Dimapur (PG) – Dimapur	500/1	1200/1	600/1	600/1		3 by DoP, Nagaland	July'18

PGCIL, NEEPCO, AEGCL and DoP, Nagaland are requested to update the latest status.

NERLDC may please deliberate.

D.19. Preparedness for Fog season:

The tripping of generators especially thermal power stations due to problem in air filters have been observed during last winter season. With the onset of the winter season this year, there is also high chances of tripping of generators due to problem in air filters.

All the generators are requested to kindly do proper maintenance of air filters under operation and maintain enough spares so as to avoid any such event

NERTS may please deliberate.

D.20. Outage of elements at Ranganadi S/S without information/consent of NERLDC

400 kV Ranganadi – Biswanath Chariali I & II were under shutdown from 08:00 hrs to 16:00 hrs on 03.11.2018 as approved in the 149th OCC shutdown. But, the 400 kV bus along with 02 nos 360 MVA ICT I & ICT II at Ranganadi S/S were put under outage without information/consent from NERLDC.

At around 16:15Hrs, when request for closing code for 400 kV bus along with 02 nos 360 MVA ICT I & ICT II was received from Ranagnadi S/S, NERLDC came to know about the S/D of the said elements.

Removal of elements from Grid without information/consent of NERLDC can cause threat to the integrity and security of the Grid as well as threat to the security of the personnel working in the site. This type of availing opportunity shutdown without prior intimation/consent from NERLDC may be avoided.

NERTS may please deliberate.

D.21. Availing Emergency Shutdown for the same equipment consecutively

Emergency Shutdown of 220 kV Misa - Kopili I line was availed on 09.11.18 w.e.f 18:03 to 19:11 Hrs for attending Hot spot on R-ph CT terminal at Misa end, again on 10.11.18 Emergency Shutdown has been availed for the same equipment (R-Ph CT at Misa end) from 13:34 Hrs for attending Oil leakage. The oil leakage could have been observed and attended on 09-11-2018 itself.

Repeated availing of Emergency Shutdown for the same element may be avoided considering security of the Grid.

NERTS may please deliberate.

D.22. Continuous over-drawal of Tripura after giving partial requisition from BgTPP.

On 09-11-2018, Tripura was continuously overdrawing around 25 MW to 41 MW from Grid since 00:15 Hrs, after surrendering power from BgTPP generation. NERLDC requested Tripura for withdrawn of partial from BGTPP and maintain their drawl as per their schedule. Also, at 06:24 Hrs, Zero-Crossing Violation message was given to Tripura. However, Tripura failed to come to their schedule.

NERTS may please deliberate.

D.23. Near miss of blackout in NER Grid on 05-12-2018

Due to opening of isolator of Bus Reactor-2 at 400 kV Bongaigaon substation, all the 400 kV lines from Bongaigaon Substation tripped at 10:19 Hrs of 05-12-2018 and the 400 kV Bongaigaon S/S became dead subsequently causing tripping of the all the associated feeders from 400 kV Bongaigaon S/S. The NER Grid survived by virtue of its connectivity with all India grid through 220 kV Salakati S/S via 220 kV Salakati – Alipurduar D/C.

Bonagaigaon S/S being the only 400 kV link for the connectivity of NER Grid with the rest of Indian grid, blackout of the Bongaigaon S/S has caused blackout of the complete NER Grid several times in the past. Thus, the GD of 05-12-2018 was a near miss of blackout of NER Grid.

POWERGRID is requested to thoroughly analyze the root cause for automatic opening of isolator of Bus Reactor-2 and submit a detailed report on the event.

All necessary corrective action must be taken in order to avoid occurrence of any such events again which may cause blackout of Bongaigaon S/S.

NERTS may please deliberate.

D.24. Submission of the Annual Load Generation Balance Report (LGBR) for Peak as well as Off-peak scenarios and the Annual outage plan for 2019-20 by 31.12.18 as per IEGC

As per IEGC, each SLDC shall submit LGBR for its control area, for peak as well as off-peak scenario, **by 31st December for the next financial year**, to respective RPC Secretariat. The annual plans for managing deficits/surpluses in respective control areas shall clearly be indicated in the LGBR submitted by SLDCs.

As per IEGC, all SEBs/STUs, Transmission Licensees, CTU, ISGS, IPPs, MPPs and other generating stations shall provide to the respective RPC Secretariat their proposed outage plan in writing for **the next financial year by 31st October of each year**. These shall contain identification of each generating unit/transmission line/ICT etc., the preferred date for each outage and its duration and where there is flexibility, the earliest start date and latest finishing date.

NERTS may please deliberate.

METERING RELATED ITEMS

D.25. Procurement of additional 70 Laptops:

NERTS informed the status in 150th. OCC meeting as below:

The tender documents for the above is under preparation.

Expected Tendering: 20-11-2018.

OBD: 20-12-2018

LOA/NOA: 31.12.2018

Expected Completion: 31.01.2019

Forum re-iterated the need of Laptops at the earliest and requested NERTS to stick to the timeline.

Status and progress may be discussed.

D.26. Installation of new L&T SEMs in NER:

NHPC informed in 150th. OCC meeting that for 132kV Loktak-Imphal-2, 132kV Loktak - Jiribam and 132kV Loktak-Rengpang at least 1-2 hrs shutdown is required to replace the SEMs. The forum advised NHPC to submit requisition separately.

Status and progress may be discussed.

D.27. Procurement of DCD:

NERTS informed the following in 150th. OCC:

- Placement of Award: 25.11.2018
- Tentative Delivery: 31.12.2018

Status and progress may be discussed.

D.28. Time drift in SEMs.

Time drift status may be updated by utilities.

Status may be discussed.

D.29 Replacement of SEMs.

SN	LOCATION	FEEDER NAME	STATUS
1	BNC	BNC END OF PAVOI-I	Meters already made available at site. Replacement by 15.10.18
2	BNC	BNC END OF PAVOI-II	
3	BNC	PAVOI END OF BNC-I	
4	BNC	33 KV BNC-1	
5	BNC	33 KV BNC-2	

Regarding sl no 1 to 5, it was decided that the ELSTER meters would be replaced by L&T meters.

Status and progress may be discussed.

D.30 Utilization of Laptop for Metering

TSECL intimated that the problem of Laptop has been resolved and they would start sending data using Laptop.

Status may be discussed.

D.31 Non-receipt of SEM data:

SL.NO	LOCATION	FEEDER NAME
	ASSAM	
1	TINSHUKIA	TINSUKIA END OF 220KV KTG FDR-I
2	TINSHUKIA	TINSUKIA END OF 220KV KTG FDR-II
4	SONABIL	SONABIL END OF 220 KV BALIPARA-1 FDR
5	SONABIL	SONABIL END OF 132KV BALIPARA FDR
6	KAHILIPARA	KAHELIPARA END OF UMTRU-1 FDR
7	KAHILIPARA	KAHELIPARA END OF UMTRU-2 FDR
8	BTPS (AS)	220 BTPS(ASSAM) - NTPC LINE
9	UMRANGSOO	UMRANGSOO END OF 132 KV KHANDONG
10	UMRANGSOO	UMRANGSOO END OF 132 KV HAFONG
	ARUNACHAL PRADESH	
11	DEOMALI	DEOMALI END OF 220KV KATHALGURI FDR
	TRIPURA	
12	UDAIPUR	UDAIPUR END OF PALATANA
	NAGALAND	
13	KOHIMA	KOHIMA END DIMAPUR (PG)
14	KOHIMA	KOHIMA END OF KARONG
15	SANIS	SANIS END OF DOYANG
16	MOKUKCHANG	MOKUKCHANG END OF DOYANG
	MANIPUR	
17	RENGPANG	RENGPANG END OF LOKTAK
	MIZORAM	
18	Kolasib	Kolasib end of both Badarpur / Aizawl

WEEKLY SEM data from above locations not sent to NERLDC.

Status as informed by various utilities in 149th. OCC meeting:

SL.NO	LOCATION	FEEDER NAME	Status
	ASSAM		
1	TINSHUKIA	TINSUKIA END OF 220KV KTG FDR-I	Tinsukia visited on 09.10.18, DCD display problem
2	TINSHUKIA	TINSUKIA END OF 220KV KTG FDR-II	
4	SONABIL	SONABIL END OF 220 KV BALIPARA-1 FDR	DCD defective
5	SONABIL	SONABIL END OF 132KV BALIPARA FDR	
6	KAHILIPARA	KAHELIPARA END OF UMTRU-1 FDR	No display in DCD. Already
7	KAHILIPARA	KAHELIPARA END OF UMTRU-2 FDR	

Agenda for 151st OCC Meeting to be held on 14th December, 2018

			intimate to NERLDC.
8	BTPS (AS)	220 BTPS(ASSAM) - NTPC LINE	Old CMRI defective
9	UMRANGSOO	UMRANGSOO END OF 132 KV KHANDONG	CMRI not available.
10	UMRANGSOO	UMRANGSOO END OF 132 KV HAFONG	Also NERTS does not collect data from Umrangso
	ARUNACHAL PRADESH		
11	DEOMALI	DEOMALI END OF 220KV KATHALGURI FDR	DCD not available
	TRIPURA		
12	UDAIPUR	UDAIPUR END OF PALATANA	Software issue. After laptop is received.
	NAGALAND		
13	KOHIMA	KOHIMA END DIMAPUR (PG)	No representative
14	KOHIMA	KOHIMA END OF KARONG	
15	SANIS	SANIS END OF DOYANG	
16	MOKUKCHANG	MOKUKCHANG END OF DOYANG	
	MANIPUR		
17	RENGPANG	RENGPANG END OF LOKTAK	ICT put in service one week back. Start to SEND data after receipt of laptop

Deliberation in the 150th. OCC meeting:

DCD to be provided to Kahelipara, Tinsulia, Sonabil, Umrangsoo, BTPS (Assam), Deomali (Ar. Pradesh) on procurement by NERTS.

TSECL to start sending reading from Udaipur.

Nagaland to intimate status of Kohima, Sanis and Mokokchung.

Manipur to intimate status of Karong.

NERLDC may please deliberate.

D.32 Error observed in Meter readings:

1. Panchgram end of 132 kV Badarpur feeder, Meter no. 6872 reading half of other end, meter 6872 data is suspect.
2. Imphal(PG) end of 132 kV Dimapur(PG) feeder, Meter no. 8669 reading erratic.

NERLDC may please deliberate.

AGENDA ITEM FROM OTPC

D.33 Deviation Settlement Mechanism(Fourth Amendment Regulations), 2018:

Kindly arrange Awareness cum discussion on “Deviation Settlement Mechanism and related matters (Fourth Amendment) Regulations, 2018” will become effective from 1st Jan 2019.

Members may please discuss.

AGENDA ITEM FROM NERPC

D.34 Expediting construction of 132kV supply for Railway traction sub-station for railway electrification projects in various States:

MoP has directed NERPC to get the status from respective State regarding railway traction sub-station for ongoing electrification. (**Annexure – D.34**). It is seen that in NER the work being executed is only in the State of Assam (at new Bongaigoan, Sarbhog, Nalbari & Kamakhya)

Assam may kindly intimate the status.

Any other item:

Date and Venue of next OCC

It is proposed to hold the 152nd OCC meeting of NERPC on second week of January, 2019. The date & exact venue will be intimated in due course.

REPORTING THE WORKS FOR THE OCC WORKING											
Sl. No.	Activity Name	Start Date	End Date	Start Time	End Time	Day	Remarks	Category			
1	12KV Busbar Substation										
2	12KV Busbar Substation										
3	12KV Busbar Substation										
4	12KV Busbar Substation										
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100	12KV Busbar Substation										

No. 7/4/2016-Trans-Pt(1)
Government of India
Ministry of Power
Shram Shakti Bhawan, Rafi Marg, New Delhi- 110 001.

Dated, 22nd November, 2018

To

Member Secretary,
ERPC/WRPC/NRPC/SRPC/NERPC.

Subject: Expediting construction of 132 kV supply for railway traction sub-station for railway electrification projects in various States.

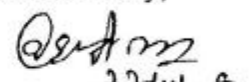
Sir,

I am directed to forward herewith a copy of letter dated 27.8.2018, received from Railway Board on the above subject and to state that expeditious implementation of the construction of various 132 kV transmission lines and railway traction sub-station, are necessary for ongoing railway electrification.

2. It is requested to facilitate the expeditious implementation as requested by Railway Board above and furnish the status from various States in your region on the urgent basis, by even calling special meetings of the Regional Power Committees, if required, and report back to this Ministry in a month.

Encl: As above.

Yours faithfully,


(Bihari Lal)

Under Secretary to the Govt. of India
Tele-fax: 2332 5242
Email: transdesk-mop@nic.in



Annexure

Summary of Transmission line work being executing by various State electricity board				
SN	STATE	Tr. Line work to be expedited (Annexure-I)	Contact yet to Award (Annexure-II)	Estimate awaited (Annexure-III)
1	Madhya Pradesh	13	4	4
2	Odisha	11	2	
3	Andhra Pradesh	5		
4	Karnataka	2	4	5
5	West Bengal	5	2	
6	Assam	1	4	
7	Uttar Pradesh	19	5	1
8	Haryana	5	2	
9	Punjab	1	2	2
10	Rajasthan	5	5	7
11	Bihar	6	11	1
12	Jharkhand	2	3	
13	Gujarat	2	7	4
14	Telangana	1		
15	Tamil Nadu	2	1	3
16	Jammu & Kashmir	1		
17	Maharashtra		7	
18	Chhattisgarh		1	
19	Damodar Valley Corporation Limited		5	
Total		81	65	27

works for which tender finalization to be expected

SN	Electrification Project/Agency	Name of Grid Sub Station	Name of Rly TSS	Tr. Line (kms)	STATE
1	Daund Manmand (RVNL)	Kopergaon	Kopergaon 2 nd feeder	2.95	MAHARASHTRA
2	Bhigwan-Solapur section of (Pune-Wadi-Guntakal) RVNL	Parewadi	Parewadi	5 km	MAHARASHTRA
3	Bhigwan-Solapur section of (Pune-Wadi-Guntakal) RVNL	LILO Kuruwadi-Jeur line	Kuruwadi	7 km	MAHARASHTRA
4	Bhigwan-Solapur section of (Pune-Wadi-Guntakal) RVNL	Mohol	Mohol	7.5 km	MAHARASHTRA
5	Solapur-Gulberga section of (Pune-Wadi-Guntakal) RVNL	Hotagi	Hotagi	6 km	MAHARASHTRA
6	Solapur-Gulberga section of (Pune-Wadi-Guntakal) RVNL	Godgaon	Godgaon		KARNATAKA
7	CHHINDWARA-KALUMNA (RVNL)	LILO	Patansaongi	3.6	MAHARASHTRA
8	Daund-Baramati (RVNL)	Shirsufai	Shirsai	5 km.	MAHARASHTRA
9	Rattam-Nimach (CORE)	Nimach	Nimach	11	MADHYA PRADESH
10	RAIPUR-TITLAGARH (RVNL)	Paraswani	Mahasamund	11	CHHATTISGARH
11	Hardaspur-Paradeep (RVNL)	Paradeep	SIJU	5.000	ODISHA
12	Singapur Road-Damanjodi (CORE)	Lakshmipur	Lakshmipur	2.5	ODISHA
61	HOSPET-BATTERY-GUNTAKAL (RVNL)	Alipura	Beilary cant	3	KARNATAKA
13	Kengeri - Mysore (CORE)	Tubalkare	Yeilyur	6	KARNATAKA
14	Kengeri - Mysore (CORE)	Hootabaly	Mysore	7	KARNATAKA
15	Calicut-Mangalore (CORE)	Mangalore	Jakotte	5	KARNATAKA
16	Pakur-Malda (CORE)	Malda	Khaltipur	23	WEST BENGAL
17	Katwa-Azimganj (CORE)	Gokarna	Kharghat	16	WEST BENGAL
18	NEW BONGAIGAON-GUWAHATI (RVNL)		New Bongaigaon	10 Km	ASSAM
19	NEW BONGAIGAON-GUWAHATI (RVNL)		Sarbhog	2 Km	ASSAM
20	NEW BONGAIGAON-GUWAHATI (RVNL)		Nalbari	5 Km	ASSAM
21	NEW BONGAIGAON-GUWAHATI (RVNL)		Kamakhya	5 Km	ASSAM
22	Bhandai-Udi (CORE)	Bah	Bah	24.8	UTTAR PRADESH
23	Bhandai-Udi (CORE)	Bah	Fathabad	20.6	UTTAR PRADESH
24	Unnao-Unchahar (CORE)	Sarani	Raghuraj singh	12	UTTAR PRADESH