

North Eastern Regional Power Committee

Agenda For

149th OCC Sub-Committee Meeting

Time of meeting : 10:00 Hrs.

Date of meeting : 11th October, 2018 (Thursday)

Venue : "Hotel Nandan", Guwahati.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 148th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 148th meeting of Operation Sub-committee held on 14th September, 2018 at Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2016/4556-4591 dated 28th September, 2018.

The Sub-committee may confirm the minutes of 148th 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 148th OCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**
Arunachal Pradesh	10% fund requisition by Sep'18. Tender by Sep'18	Revised DPR submitted	-	DPR submitted for Techno-Economic Appraisal.
Nagaland	Pack-A: completion by Oct'18 Pack-B: Dec'18 Pack-C: Dec'18 Pack-D: Completed.	Revised DPR yet to be submitted	To re-submit proposal to NERPC for Study.	DPR submitted for Techno-Economic Appraisal
Mizoram	LOAs completed. First tranche of funds requisitioned.	Revised DPR submitted	Appraisal Committee is yet to approve	DPR submitted for Techno-Economic Appraisal
Manipur	LOAs issued. Completion by 27/09/2019.	Revised DPR submitted	Submitted to NERPC for Study before sending to NPC/NLDC.	DPR submitted for Techno-Economic Appraisal

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Tripura	Fund Released • 17.2 Cr. Tentative Completion by 31.12.2018	Revised DPR submitted	To submit proposal to NERPC for Study.	DPR submitted for Techno- Economic Appraisal
Assam	Substation auxiliary and diagnostics tools - Tendering in process. LOA by Sep'18.	Revised DPR submitted	-	DPR submitted for Techno- Economic Appraisal
Meghalaya	MePTCL- All LOAs awarded. Earthing Package Tendering in Progress. Balance items by Sep'18 MePGCL -Total award value • 27.98 Cr. LOA placed • 26.63 Cr.	Revised DPR submitted. Query referred to DISCOM	-	DPR submitted for Techno- Economic Appraisal

The status of implementation of the above schemes (physical as well as financial progress) may please be reviewed and the entities are requested to expedite implementation of the schemes. 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 148th OCC	Latest status
63MVAR Reactor at Byrnihat to replace with 80MVAR Reactor	MePTCL	7 th SCM MoM to be revised.	
Repairing of R-ph bushing of 63MVAR L/R at Balipara for 400kV Balipara-Bongaigaon -II (out since 17.02.18)	NERTS	By Oct'18	
Outage of 420kV 80MVAR L/R for 400kV Bongaigaon-NSLG-I at Bongaigaon - (out since 04.07.18)	NERTS	By Mar'19(Regional Spare will be utilized for restoration)	

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132kV Dimapur - Imphal (out since 25.07.18)	NERTS	Expected restoration by Sep'18(Note: Pace of restoration work severely affected due to landslide & blockade of roads)	
63 MVAR B/R-4 at 400kV Biswanath-Chariali(out since 27.04.18)	NERTS	Internal failure. By Nov'18	
132 kV, 20MVA 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	-	
220/132kV, 50MVA ICT 1 at 400kV Balipara S/S out of service since 09:52 Hrs of 04.08.18 (Shutdown approved till 1600 Hrs of 21st August'18)	NERTS	-	
63 MVAR Line Reactor of 400 kV Bongaigaon - Balipara IV at Balipara S/S out of service since 10:58 Hrs of 06.08.18 (Shutdown approved till 1600 Hrs of 15th August'18)	NERTS	-	

Utilities may please intimate the latest status.

3. Furnishing of various data for reliable grid operation:

Data regarding	Status as of 148th OCC		Latest status
DAS output for FRC calculation	Event Date: 30.07.18; Kopili, Palatana and Pare submitted the data. Event Date: 29.08.18; Kopili and Palatana submitted the data. NERLDC once again requested all generators to provide DAS data for FRC calculation within three days after communication received from NERLDC.		
Operating Procedures	Items	Data submitted by	
	OP of States	Submitted by AEGCL, MePTCL, TSECL, DoP Nagaland and P&E, Mizoram	
	OP of Transmission System	Not submitted by any constituents	
	OP of Generating Stations	Submitted by Doyang, Khandong and Kopili	
	OP of GIS	Not submitted by any constituents	

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Data related to Power Map.	Items	Data submitted by
	Communication (PLCC/OPGW/ GPRS/SAT/ Satellite)	NERTS, Meghalaya, Assam & Mizoram provided the data.
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	
Submission of Capability Curve	NERLDC informed that capability curve is available with NERLDC for all CSGS. However, they are not in legible format. The forum requested NEEPCO, NTPC, NHPC and OTPC to submit capability curve in proper format.	

NERLDC may please inform the status.

4. Monitoring of Corrective actions as decided in PCC forum:

Name of the Element	Action to be taken	Name of Utility	Status as of 148th OCC	Latest status
132 kV Dimapur - Doyang 1 & 2 Lines	Installation of Numerical Relay at Doyang	NEEPCO	By Dec'18	
AGTCCPP LFO	AVR Replacement	NEEPCO	By Nov'18	
132kV PK Bari-Kumarghat	Installation of Line differential relay	NERTS	LOA By Nov'18	
132kV AGTCCPP-Agartala D/C.	Line differential relay to be installed	NERTS	LOA By Nov'18	
132kV PKBari	Installation of Numerical Relay under R&M (<i>high priority</i>). TSECL to divert NR to AGTCCPP.	TSECL	By 15.10.18	
132kV Rokhia-79Tilla D/C	DPR to be installed	TSECL	By 15.10.18	
400kV Silchar-Byrnihat and 400kV Silchar-Azara	Earthing through chemical treatment in the lightning prone areas with high tower footing resistance	NERTS	NETC Placed LOA for BE of 129 towers. Completion Sch.: Sept'18. Till now 7 completed	

Repeated tripping of Doyang Machines	of	DPR to be installed for lines and units. CTs to be replaced.	NEEPCO	DPR Dec'18, Jun'19. replaced Jun'19	lines- Units- CT by
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Concerned utilities may please inform the status.

5. DIFFERENCE IN ACTUALS VS LGBR:

Energy Requirement:

Name of State	May18 (actual)	May18 (LGBR)	Jun 18 (actual)	Jun18 (LGBR)	Jul 18 (actual)	Jul18 (LGBR)	Aug 18 (actual)	Aug 18 (LGBR)
Ar. Pradesh	71.77	70.26	70.76	65.89	72.49	66.28	76.34	77.02
Assam	738.04	778.29	913.96	864.22	998.64	952.10	1039.01	970.21
Manipur	68.18	67.46	67.74	64.86	72.38	65.08	70.53	76.98
Meghalaya	138.92	143.00	143.28	142.00	169.75	155.00	162.17	159.00
Mizoram	40.70	47.82	43.66	42.44	46.53	45.43	58.96	44.80
Nagaland	72.75	74.90	78.16	76.55	82.22	80.84	80.88	79.25
Tripura	101.52	98.38	121.77	123.16	144.97	123.51	179.61	127.98

Energy Availability:

Name of State	May18 (actual)	May18 (LGBR)	Jun18 (actual)	Jun18 (LGBR)	Jul18 (actual)	Jul18 (LGBR)	Aug 18 (actual)	Aug 18 (LGBR)
Ar. Pradesh	70.09	70.50	74.78	83.78	77.75	99.88	81.81	96.23
Assam	738.28	810.91	898.04	892.17	975.84	992.22	991.95	967.37
Manipur	95.07	86.53	101.66	102.23	111.82	129.88	109.25	126.69
Meghalaya	191.42	204.20	236.66	254.18	293.16	312.29	285.36	322.71
Mizoram	71.74	72.60	79.19	82.67	85.38	97.31	92.74	99.89
Nagaland	67.15	66.14	78.35	83.84	79.00	99.30	84.88	99.50
Tripura	252.31	281.99	255.49	242.47	294.08	308.19	312.05	294.40

Demand:

Name of State	May18 (actual)	May18 (LGBR)	Jun18 (actual)	Jun18 (LGBR)	Jul18 (actual)	Jul18 (LGBR)	Aug 18 (actual)	Aug 18 (LGBR)
Ar. Pradesh	128.33	145	138.12	131.00	130.38	136.00	135.88	148
Assam	1625.51	1665.49	1782.35	1761.14	1862.54	1761.36	1833.85	1752.66
Manipur	179.01	169.41	179.48	163.70	174.16	162.83	177.32	173.10
Meghalaya	370.59	334.40	325.51	298.94	333.95	308.22	325.43	314.92
Mizoram	95.98	94.60	102.57	85.16	100.77	92.62	99.09	92.62
Nagaland	147.06	140.94	129.40	152.90	132.89	153.75	134.32	139.63
Tripura	275.65	282.80	280.66	307.24	298.12	322.71	291.86	327.32

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

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

NER PERFORMANCE DURING SEPTEMBER, 2018

States	Energy Met (MU)		w.r.t. Aug,18 % inc (+) /dec (-)	Energy Reqr. (MU)		w.r.t. Aug,18 % inc (+) /dec (-)	% inc (+) /dec (-) of energy reqr vs met. In Sep,18
	Sep-18	Aug-18		Sep-18	Aug-18		
Ar. Pradesh	69.06	70.18	-1.60	69.79	71.07	-1.80	-1.05
Assam	939.37	1023.54	-8.22	975.15	1059.85	-7.99	-3.67
Manipur	67.60	70.25	-3.77	68.31	71.13	-3.96	-1.04
Meghalaya	156.29	166.90	-6.36	156.32	166.90	-6.34	-0.02
Mizoram	49.85	49.56	0.59	50.51	50.20	0.62	-1.31
Nagaland	69.95	73.96	-5.42	78.29	82.30	-4.87	-10.65
Tripura	136.76	144.63	-5.44	137.94	146.10	-5.59	-0.86
Region	1488.88	1599.02	-6.89	1536.31	1647.55	-6.75	-3.09

States	Demand Met (MW)		w.r.t. Aug,18 % inc (+) /dec (-)	Demand in (MW)		w.r.t. Aug,18 % inc (+) /dec (-)	% inc (+) /dec (-) of Demand vs met. In Sep,18
	Sep-18	Aug-18		Sep-18	Aug-18		
Ar. Pradesh	130	133	-2.26	138	138	0.00	-5.80
Assam	1809	1795	0.78	1865	1834	1.69	-3.00
Manipur	182	175	4.00	184	177	3.95	-1.09
Meghalaya	317	326	-2.76	317	325	-2.46	0.00
Mizoram	93	97	-4.12	95	99	-4.04	-2.11
Nagaland	138	133	3.76	142	134	5.97	-2.82
Tripura	293	287	2.09	296	292	1.37	-1.01
Region	2850	2795	1.97	2921	2967	-1.55	-2.43

REGIONAL GENERATION & INTER-REGIONAL EXCHANGE IN MU

Month---->	Sep-18	Aug-18
Total Generation in NER (Gross)	1662.196	1767.095
Total Central Sector Generation (Gross)	1219.719	1358.337
Total State Sector Generation (Gross)	442.477	408.758
Inter-Regional Energy Exchange		
(a) NER-ER	51.53	8.58
(b) ER-NER	531.26	525.11
(c) NER-NR	464.63	505.16
(d) NR-NER	3.56	0.00
© Net Import	18.66	-11.37

AVERAGE FREQUENCY (Hz)

Month---->	Sep-18	Aug-18
	% of Time	% of Time
Below 49.9 Hz	13.21	8.92
Between 49.9 to 50.05 Hz	80.23	80.43
Above 50.05 Hz	6.05	10.64
Average	49.97	49.98
Maximum	50.20	50.22
Minimum	49.57	49.62

C. OLD ITEMS

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

During 147th OCC meeting, the status as informed by different beneficiaries is as follows:

SN	Items	Status as given in 148 th OCC Meeting		Status as given in 149 th 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 Oct-Nov'18	To be submitted to NERLDC.		
2	Kameng HEP of NEEPCO two units (2 x 150 MW) Next two units (2x150 MW)	Dec'18	Already submitted.		
3	400 kV D/C Silchar - Melriat line of PGCIL	Oct'18	To be submitted to NERLDC.		
4	132kV Monarchak - Surjamaninagar D/C of TSECL	By Dec'18	To be submitted to NERLDC		
5	SLDCs (Ar. Pradesh, Manipur, Mizoram, Nagaland)	Nagaland-DoCO to be finalized Ar. Pradesh, Manipur - CoD Mizoram-ToC date to be confirmed. Except DG set (WIP), all other works are completed. DG set - by Aug'18	Not applicable.		
6	400/220 kV 315 MVA ICT-II at Bongaigaon	Ready for Test charging from HV. Ready for Load flow by Nov'18.	Already submitted for HV side.		

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7	220/132 kV, 160MVA ICT-II at Balipara	ICT#II despatch Dec'18	- by	To be submitted to NERLDC.		
8	220/132 kV, 1x160 MVA ICT with GIS Bay at Kopili	Dec'18		To be submitted to NERLDC.		
9	Replacement of 2x315 MVA ICTs with 2x500 MVA ICTs at Misa (PG)	ICT-I : Nov'18 ICT-II : Dec'18		To be submitted to NERLDC.		
10	400 kV Silchar - Misa D/C	2019**		To be submitted to NERLDC.		
11	33kV bay at 220kV Mariani(AS) S/Sn	By Sep'18		Not applicable.		
12	33kV bay for 132kV Badarpur(PG) S/Sn	By Sep'18		Not applicable.		
13	Dedicated 33kV feeder at Khliehriat Substation from Lumshnong.	CE could not be prepared in want of ROW Issue. MeECL to take up the matter.		Not applicable.		
14	Construction of 132 kV Imphal (PG) - Yurembam III lines with high capacity conductor by MSPCL	RoW problem not resolved. Tentative Completion: Oct'18		To be submitted to NERLDC.		
15	LILO of 132kV Aizawl-Jiribam at Tipaimukh by MSPCL	LILO completed. Data by Oct'18. Voice communication to be put in place ASAP.		Already submitted.		
16	MW Vacation OPGW project	KEC Part: 236km out of 236 of CS,714km out of 714km of State		Not applicable.		

		<p>sector completed. Total of 17links are made reported to RLDC & SLDC as per list attached.</p> <p>Rectification one link Sma-Mari is going on. Data via links Panchgram-Srikona-Pailapul is stopped due to tower failure as One Tower(AEGCL link) collapsed between Panchgram-Srikona-Pailapul. These links were originally commissioned and Equipment SAT is already done with AEGCL. AEGCL is requested to issue TOC for the completed part earlier as part affected due to storm/tower failure may not be linked.</p> <p>Work suffered delay/ slow due to tough unfavorable natural conditions (recent monsoon Flood in south, Upper Assam, Lower Assam). Further works awarded to M/s Tendot viz. Ranganadi-</p>			
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		Gohpur is under progress. Silchar -Srikona, Melriat-Aizawal is also completed. Nirjuli Ranaga is under halt due to LILO part modification by DoP. Other Target-Dec18.			
17	NER FO Expansion/Add req of OPGW	OPGW Part: Stringing Status: Central Sector: Part-1: 192.669/740Km (total 12 links) Part-2: 398/398km (5links) State Sector: Meghalaya: 0Km/63Km (total 04 links) Tripura: 200/316.484Km (total 12 links) Nagaland: 0/93Km (total 03 links) Manipur: 0/365Km (total 11links) Constraints: ROW at sites (e.g. Tripura & Nagaland-Assam border, Manipur-Assam border). Site/space readiness in areas like Kohima, Khandong, Kopili, Jadhima/New Kohima etc. Natural/weather constraints like road conditions/Flood	Not applicable.		

		<p>etc. Work stopped by NETC lines with consensus from NERPC for Silchar-Pallatana due to non-issue of PTW by OTC due to grid constraints. Target: Dec18 to March19</p>			
18	URTDSM project	<p>Total Scope: 1no. CC SPC-NERLDC, 3nos. PDC(Assam, Meghalaya, AP(The same proposed to be shifted to Back up RLDC) 51 PMUs in 14 stations</p> <p>Status: Work in control centre 3PDC(including one SPDC) & 31PMUs are reporting(commi ssioning completed-40) out of 51nos. 4stations left.</p> <p>For NERLDC, SAT planned-4th week-Sept18, UPS pending), Control centre i.e. PDC Assam, Meghalaya completed. PDC of AP is proposed to be shifted to Back UP NERLDC as there is space</p>	Not applicable		

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		constraint in AP SLDC. Further back up of SPDC, NERLDC is required keeping in view geographical conditions. Constraints: Difficult terrain/ tough road condition/ tough camping conditions			
b. Elements under breakdown/upgradation					
19	Up-gradation of 132 kV Lumshnong-Panchgram line	MePTCL to submit DPR for Techno Economic Appraisal after concurrence of AEGCL.	Not applicable.		
20	Switchable line Reactors at 400kV Balipara & Bongaigoan Ckt # 1 & 2	Completed. Minor works remaining. By Sep'18	Not applicable		
21	PLCC Panels at Loktak end of Loktak - Ningthoukhong 132 kV feeder and Loktak - Rengpang 132 kV feeder	Oct'2018	Not applicable.		
22	Re-conductoring of 132kV Umiam Stg-III bus	Modified for upgradation of Umiam Stg#III bus. Admissible under PSDF. To be taken up in TCC/RPC	Not applicable.		
23	Upgradation of ULDC FO node	SDH equipment node replacement started (Siemens SDH by ECI in 17locations). 14 locs completed.	Not applicable.		

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		Fibre not ready at Umtru (MEPTCL is to provide). Natural constraints, non availability of fibers have delayed the project Target: Dec18.			
24	Upgradation of 132kV Silchar-Imphal to 400kV	By Oct'18. Scope as per 6 th SCM.	To be submitted to NERLDC		
25	Integration of existing bays with C264 RTU at RHEP by NEEPCO	By Jan'19	Not applicable		
26	Replacement of CTs and installation of Bus Bar Protection at 220kV Misa	Under NERSS-VII. By Dec'18	Not applicable		

Concerned constituents may kindly intimate the status.

ITEMS REG. SUBMISSION OF DATA/COMPLIANCE

C.1 Geospatial Energy Portal for NITI Aayog:

Latest status - MSPDCL, DoP Nagaland yet to submit.

Members may please discuss.

C.2 Flexibility in generation and scheduling of thermal power station to reduce the cost of power to consumer:

In 148th OCCM the final scheme was circulated. Director (O&P), NERPC requested members to peruse the scheme and provide their valuable comments regarding its operationalization.

Members may please discuss.

D. NEW ITEMS

D.1 Generation Planning (ongoing and planned outages)

NEEPCO & NHPC may kindly intimate the availability for hydro stations:

Generating Station	Units running	MW	MU	Reservoir
Khandong				
Kopili				
Kopili-II				
Ranganadi			Subject to inflow	
Doyang				
Loktak				
AGBPP	-	-	-	-
AGTPP	-	-	-	-

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 October,2018- November,2018 which is available in the website of NERPC.

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

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

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 01.10.18**. All SLDCs are requested to assess the Total Transfer Capability (TTC), Transmission Reliability Margin (TRM) and Available Transfer Capability (ATC) for the month of November'18 using these cases and submit the study cases and results to NERLDC by **22.10.18**.

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 22.10.18**.

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. SPS mock testing & existing SPS scheme related:

As per previous discussion it was decided that:

- Separate asset would be created for SPS at Palatana and Silchar.
- OTPC would complete procurement on behalf of all beneficiaries. NERTS to provide technical support.
- A committee comprising of members from OTPC, PGCIL, POSOCO & NERPC to look into the matter viz. BCU replacement, Changing of SPS 3 Channel to other circuit, checking of SPS-3 logics in SCADA etc. and submit report for taking further decision of implementing SPS 3 Scheme with existing asset. The committee visit date would be tentatively on 01.09.2018.
- SPS-3 is to activate w.e.f. 01.10.2018.
- DT send (on separate channel) to Silchar for 86LO operation at Byrnihat/Azara for 400kV Byrnihar-Silchar and 400kV Azara-Byrnihat respectively to be implemented. These would be used as part of SPS-3 logic at Silchar.

OTPC/MeECL/AEGCL may please update the status.

D.6. Update on Real Time Energy Assessment for Effective Grid Management:

In 148th OCCM Director (O&P), NERPC informed that Public IP has been procured and intimated by NERLDC and pilot project at Azara is under implementation.

Following list of location for meters replacement / installation were submitted for the project -

Sl. No	Feeder Name	Status	Meter to be Replaced/Installed by PGCIL
1	Srikona End of 132kV Silchar FDR-I	Replace	1
2	Srikona End of 132kV Silchar FDR-	Replace	1
3	Deomali End of 220kV Kathaguri FDR	Replace	1
4	PK Bari -1 End of 132kV Silchar-1	Replace	1
5	PK Bari -1 End of 132kV Silchar-1	Replace	1
6	Pavoi End of 132kV BNC-1	Replace	1
7	Mokok (S) End of Doyang	Replace	1
8	Mokok (S) End of Mokok-Mokok-1	Replace	1
9	Mokok (S) End of Mokok-Mokok-2	Replace	1
10	Khupi End of 132kV Balipara	Install	1
11	Lekhi End of 132kV Pare	Install	1
12	Khupi End of 132kV kameng	Install	1
13	Zuangtunii End of Melriat	Install	1
14	Luangmual End of Aizawl	Install	1

NERPC may please update the members of the present status.

D.7. Recording of operational instructions over VOIP in RLDC:

Status as updated in 148th OCCM: LOA has been placed and supply would be done by Oct'18.

NERTS may please intimate the latest status.

D.8. 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 in the month of September, 2018.

NERPC may please intimate the latest status.

D.9 Non-availability of SOE records of Biswanath Chariali, Ranganadi, Dimapur:

Latest status

HVDC Biswanath Chariali :

All signals were integrated as per project approved list. The same was also jointly checked with RLDC end during commissioning. Thus, additionally SOE and other signals apart from approved list needs approval of competent authority.

POWERGRID requested NERLDC for forwarding copy of any communication vide LD & C / HVDC CC was intimated to implement the list as submitted now for further approval / implementation. In this reg, email from NERTS was given to RLDC on 14.8.18

Dimapur: Fire incident. By Nov'18.—present status/target: Dec'18
For RHEP RTU integration works complete by Dec'18.

NERTS/NERLDC may please intimate the status.

D.10. Repeated trippings due to vegetation:

In the deliberations of the Sub-group it has been observed that a number of lines are tripping due to vegetation overgrowth i.e. transient tripping almost continuously throughout the year.

Month	Name of line/ No. of trippings		
	132kV Balipara-Khupi	132kV Dimapur-Kohima	132kV Aizawl-Kumarghat
Jan'18	2	1	1
Feb'18	1	1	2
Mar'18	3	4	1
Apr'18	4	1	2
May'18	0	0	4
June'18	4	6	3
July'18	6	4	4

For this patrolling reports and self-certification of vegetation clearance is to be submitted by the concerned utilities.

Also the following lines have been observed to have tripped frequently on transient faults due to vegetation in the months of May-Jul'18:

- 400kV Balipara- Biswanath Chariali -II
- 400kV Silchar - Azara
- 400kV Balipara - Bongaigaon-III

In 148th OCCM NERTS submitted that two main reasons for tripping of its said lines- i)Acute RoW constraints/obstructions , (ii)Vegetation from uphill falling on lines drawn through hilly terrain. The forum had decided that RoW issues would be referred to TCC/RPC for resolution.

DoP Nagaland, NEEPCO and NERTS may please submit a detailed maintenance schedule.

Members may please discuss.

D.11. VSAT for power system communications in NER:

As per decision in previous meetings NERTS would explore High Bandwidth Leased line Connectivity for Roing, Tezu and Namsai and NERLDC would explore VSAT connectivity for NER in line with scheme operational under KPTCL.

Members may please discuss.

D.12. Procurement of spare Transformer and Reactors for States:

As per discussion in the previous meeting:

- Spare transformers/reactors would be provided from PSDF only against ISTS assets.
- In case any state wants any asset from Regional spare same may be provided (on a chargeable basis) after all necessary formalities are completed.
- In case any ISTS asset owned by any STU does not have regional spare same may be procured from PSDF.

Concerned utilities may please inform the status.

D.13. DIMAPUR PG Voice communication and telemetry out since Feb'18.

In 148th OCCM DGM(AM), NERTS informed that Dimapur substation phone is working OK since March'18 (VOIP number 23640213). The same was restored along with power system restoration. Under urgency in March'18, NERTS had collected one telephone from SLDC end and same was later replenished. For data, he informed that the same would be corrected by Nov'18.

NERTS may please intimate the status.

D.15 Shifting of 50 MVA, 220/132kV Transformer of NEEPCO from Balipara (PG) SS by NEEPCO

The 50 MVA, 220/132kV transformer (Bharat Bijlee make) of NEEPCO at 400kV Balipara (PG) SS is being replaced by a new 160 MVA, 220/132kV Transformer by POWERGRID under NERSS – III project. Dismantling of the transformer has already been taken up by POWERGRID.

In 148th OCCM Sr. Manager, NEEPCO informed that upon upgradation with 220/132kV 160MVA ICT at Balipara the old 50MVA ICT has become spare and they do not have space for storage of the same. NEEPCO requested POWERGRID for storage of the transformer and they are ready to bear the cost for development of storage facility at Balipara by POWERGRID. Accordingly, POWERGRID with submit the cost estimate to NEEPCO for development of required storage facility at Balipara.

Director(O&P), NERPC suggested that the ICT may be declared as regional spare against 220/132kV 50MVA ICT at Agia. The forum welcomed the suggestion and requested NEEPCO to initiate necessary process in this regard.

NEEPCO may please intimate the status.

AGENDA ITEMS FROM NERPC:

D.16 Update on PDMS:

The tender for "Web based Protection Database Management System and Protection Setting Calculation Tool" was published on 31.07.2018. After due bid evaluation the LOI was issued to successful bidder i.e. M/s PRDC vide letter dated.01.10.2018. M/s PRDC will present the action plan and high level design document.

Members from all the utilities are requested to nominate the nodal officer for PDMS. The forum may also finalise the Project Monitoring Group.

NERPC may please deliberate.

D.17 Early Completion of OPGW based communication system in Intra-state grid of Manipur in the interest of NER grid security and smooth power supply management in Manipur

SLDC Manipur located at Yurembam was established by Power Grid with 11 nos. of RTUs in 132 kV sub-stations – nine for State sector and 2 for Central sector. Even long after the starting of commercial operation of the SLDC on 9/11/2016 it is currently operating with data acquired from few sub-stations through PLCC links only. It is not serving the purpose of the establishment of SLDC for real time scheduling and dispatch of electricity in the intra-state system for ensuring grid security.

Currently, the main control center at Yurembam is unable to acquire voice connectivity and SCADA from the nodes at the 11 nos. of 132 kV sub-stations because of the absence of OPGW connectivity and installation of communication equipment.

During the 15th TCC & 15th NERPC Meeting held on the 20th and 21st of August, 2015 at Guwahati, the TCC recommended the revision of OPGW connectivity for Manipur from 149 Km to 365 Km. RPC noted and approved it. The investment is to be recovered as per tariff determined by CERC.

Altogether PGCIL is implementing the work for the installation of 385 Km. of OPGW including 20 Km for LI-LO on Kongba – Kakching at Thoubal under Quantity Variation Clause as deliberated in the 17th TCC Meeting held on the 4th of October, 2016 at Imphal and noted by RPC.

MSPCL has taken up integration of 400 kV sub-station and the remaining 132 kV sub-stations into SLDC Manipur with 5 nos of RTUs and 206 km of OPGW under PSDF funding. This has been incorporated in the scope of “Reliable Communication & Data Acquisition System upto 132 kV Sub-Stations in Manipur (NER)” initiated by the Government of India.

During the 18th TCC Meeting held on the 10th of October at State Convention Centre, Shillong POWERGRID informed that materials have been inspected at China and would be delivered by end of Nov’17. GM, NERTS informed that the target for completion as per 6th NETeST meeting of NERPC is November, 2018. However, not much progress has been made till date.

Members may please discuss.

D.18 Shifting PDC system from SLDC Arunachal Pradesh to Back Up NERLDC at Guwahati due to space constraint at SLDC AP at Chimpu SS

Due to space constraints in present SLDC of Arunachal Pradesh at Chimpu Substation, PDC installation could not be done under URTDSM Phase1. Accordingly, during 144th OCCM, members decided for shifting the PDC to Back up NERLDC at Guwahati for backing up main NERLDC at Shillong under central sector.

Members may please discuss.

D.19 Re-engineering of existing 132 kV bus bar from ACSR panther to ACSR zebra conductor and providing terminal equipment at 132 kV switchyard bay for Upper Khri feeders at Stage-III power station

The loading of the existing 132 KV Switchyard Bus Bar of Stage-III Umiam Power Station, Kyrdemkulai with Panther conductor has exceeded the permissible loading

Agenda for 149th OCC Meeting to be held on 11th October, 2018
capacity. Presently Upper Khri Stage-I and Stage-II will be connected to 132kV Bus at Umiam Stg-III. For this the following is required:-

- Terminal equipments for connection of these Feeders at Stage-III Power Station
- Replacement of ACSR Panther conductor of 132kV Bus at Stg-III with ACSR Zebra.

Members may please discuss.

D.20 Laying of OPGW from Sonapani Mini Hydel power house to 33 kV Mawprem sub-station and thereafter integration with SLDC

Proposal: Laying of OPGW from Sonapani Mini Hydel Power Station for integration with SLDC, Shillong.

Laying of OPGW from Sonapani Power Station to 33 KV Mawprem Sub-Station including Optical Accessories, RTU, Data Base Integration, software and hardware equipments, 48 V DC Battery Bank and Charger.

Members may please discuss.

AGENDA ITEMS FROM NEEPCO:

D.21 Checking of RTU at RHEP:

Inspite of being healthy RTU in RHEP end, there is a repetitive communication from NERLDC for checking of RTU in our side. The problem may lies in the communication link.

NEEPCO may please deliberate.

D.22 Termination of OPGW in RHEP:

Termination of OPGW link in the Ranganadi HE Plant at the earliest. The equipment for OPGW is laying in the Power House site since several months awaiting for Termination of OPGW for reliable communication for both Voice and data. at present ULDC Phone in RHEP is not working since two to three years due to failure in PLCC media and also our plant is operating in web based scheduling system which require uninterrupted internet facility. This can also be achieve by commissioning of OPGW.

NEEPCO may please deliberate.

AGENDA ITEMS FROM NERTS:

D.23 Waiving of outstanding surcharge against arrear of electricity charges of M/S APDCL pertaining to Balipara and Misa Sub Station:

POWERGRID, Misa & Balipara Sub Station started drawing Auxiliary Power through 1000kVA, 33/0.4kV Tertiary Transformer installed in Jun-2000. ASEB raised first bill against the above connection on 06/06/2002 including Arrear Bill for the period from Sept'2000.

POWERGRID could not pay the bills due to pending decision of NEREB regarding billing of tertiary connection and the same was communicated to ASEB (CommI) Guwahati accordingly. Subsequently, the Matter was taken up at NEREB Commercial Committee Meeting by POWERGRID and in 38th Commercial Committee Meeting of NEREB held on 30/07/2002 it was decided that drawal of power from tertiary of Autotransformer to be incorporated in REA as deemed drawal by ASEB, who in turn will raise energy bill for such drawal to POWERGRID separately for bilateral settlement. REA was started from Aug-2002.

Thus, since REA was not available prior to Aug-2002 POWERGRID requested ASEB to raise bills for the period from Sep-2000 to Jul-2002 only after receipt of modified REA from NEREB for which ASEB seemingly agreed to withdraw bills for the period prior to Aug-2002 onwards vide their letter dtd. 24/10/2002. However, ASEB continued raising bill from initial period i.e. Sep-2000.

ASEB applied to NEREB for revision of REA for the period from Sep-2000 to Jul-2002 vide letter dtd. 27/10/2003. Further, ASEB raised revised bifurcated bill for the period from Sep-2000 to Jul-2002 & Aug-00 to Jul-2004 on 05/08/2004. POWERGRID started paying tariff against this connection regularly from Feb-2005 onwards and cleared Arrear payments for the period from Aug-2002 vide letter dtd. on 26/10/2006. REA for the period from Sep-2000 to Jul-2002 was revised by NERPC vide 110/1/NERPC/REA/2008/ 176-77 dtd. 15/04/2008. ASEB raised revised supplementary bill for the period from Sep-2000 to Jul-2002, ignoring Surcharge on 22/08/2008. However, ASEB raised surcharge bill for the period from Sep-2000 to Jul-2002 on 15/10/2008.

Thus, the settlement of outstanding surcharge against arrear electricity charges pertaining to Balipara & Misa Sub Station, claimed by M/s APDCL, the period from Setember'2000 to July'2002 remained long outstanding issue. POWERGRID is not willing to pay the surcharge amount as it was on account of delay in issuing of REA which is not the fault of POWERGRID. However, APDCL has compounded the outstanding surcharge amount every month (@1.5% per month) and loaded in every subsequent monthly energy bill. The current outstanding surcharge amount as per APDCL is:

1. Balipara Sub Station : Rs. 52, 73,528.00.
2. Misa Sub Station : Rs. 50, 19,859.00.

The issue was discussed and deliberated in several meetings / forums, including 19th Commercial Meeting on 26.02.2013 (Item No. 6.5 of MOM Enclosed in Annexure – I) where it was decided that ***Assam and POWERGRID will explore the possibility of waiving the surcharges and settle the issue bi-laterally without further delay.*** However, no solution was arrived at despite several correspondences made with M/s APDCL and finally, APDCL vide letter dated 24.08.2018 (Enclosed in Annexure – II), explicitly stated that no surcharge waive can be allowed at their end.

Now, according to POWERGRID, the surcharge is not payable as the principal amount including arrear has already been paid to APDCL in schedule timeframe, the issue requires further deliberation under NERPC forum for waiving surcharge by Assam.

NERTS may please deliberate.

AGENDA ITEMS FROM NERLDC:

D.24 Furnishing Technical and Commercial data for computation of PoC Charges and Losses for Q4 of 2018-19 (Jan 2019 – Mar 2019):

All the power utilities are requested to furnish Technical and Commercial data for computation of PoC Charges and Losses for Q4 of 2018-19 (Jan 2019 – Mar 2019) by 22nd Oct'18.

Utilities are requested to submit the technical and commercial data.

NERLDC may please deliberate.

D.25 Grid Disturbance in Tripura Power System on 20th Sep'18 and 27th Sep'18

Grid disturbance of CEA category GD-I occurred in Tripura Power System affecting capital area at 01:37 Hrs, 13:57 Hrs and 19:26 Hrs on 20th Sep'18 (3 times). At 14:17 Hrs on 27th Sep'18, grid disturbance of category GD-I occurred in Tripura Power System affecting Surajmaninagar area and Bangladesh (South Comilla).

In this regard, following points may be discussed:

- a. TSECL may please intimate the root cause of each disturbance for further analysis
- b. Reason for delayed clearance of faulty section which is resulting in tripping of healthy feeders
- c. Review of over current and earth fault relay settings of 132 kV lines emanating from Agartala, Rokhia, Monarchak and Udaipur since DPR is commissioned in all 132 kV lines from these substations as per email from TSECL dated 28.09.18.
- d. Status of CT connection issue of DPR at Agartala substation
- e. Mismatch in relay flag submitted by SLDC and actual relay operation observed in DR output.
- f. Submission of Patrolling reports and self-certification of vegetation clearance of lines connected to Agartala, P K Bari & Surajmani Nagar substations and Monarchak power station by the concerned utilities.
- g. Z-II operation of 132 kV Palatana – S M Nagar line at Palatana (as per primary analysis, fault was in 132 kV Agartala – Budhjungnagar line)

NERLDC may please deliberate.

D.26 Preparation for catering load to Tripura during Puja 2018:

It had been observed that demand of Tripura was highest during the period of Durga Puja of previous years. It is expected that similar trend will continue during the period of Durga Puja of 2018.

For facilitating reliable and secure power supply to Tripura during the Durga Puja 2018, NERLDC conducted system studies based on the data furnished by SLDC Tripura. The study results are attached in **Annexure-D.26(I)**.

SLDC Tripura has projected a demand of 470 MW (including Bangladesh) during Durga Puja 2018. While conducting the studies, NERLDC observed that there will be Low Voltage in Tripura Power System while catering a load of 470 MW.

The following issues are identified for reliable and secure power supply to Tripura during Durga Puja 2018:-

- a. Ensure reliable gas supply & supply of enhanced quantum of gas may be explored by coordinating with gas supply agencies.
- b. Exploring possibilities to maximize the generation of Rokhia and Baramura Gas Based Power Plants
- c. Checking and rectification of protection settings of all 132 kV transmission elements and downstream elements owned by TSECL.
- d. Patrolling and vegetation clearance of all the lines owned by TSECL before Durga Puja 2018.
- e. Identify 190 MW Load for immediate disconnection in case of tripping of 132 kV Surajmaninagar (TSECL)- Palatana (OTPC) S/C line.

NERLDC has already given communication to TSECL vide letter No. NERLDC/ED/SO-II/1506 dated 01.10.18. A copy of the letter is attached in **Annexure-D.26(II)**.

NERLDC may please deliberate.

D.27 Telemetry Availability Status at NERLDC from Constituents (as on 01-10-2018):

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	104	149	253	6	4	10	3.95%
2	Assam	1217	1731	2948	536	547	1083	36.64%
3	Manipur*	180	255	435	97	159	256	56.09%
4	Meghalaya	409	388	797	207	86	293	36.76%
5	Mizoram	71	50	121	9	9	18	14.87%
6	Nagaland	237	270	507	0	0	0	0%
7	Tripura	524	715	1239	149	189	338	27.28%
8	PGCIL	628	1082	1710	421	724	1145	66.95%
9	NEEPCO	202	286	488	143	190	333	68.23%
10	NTPC	31	49	80	23	43	66	90%
11	OTPC	41	85	126	41	85	126	100%
12	NHPC	18	29	47	17	28	44	95.74%
	NER	3662	5089	8751	1563	1911	3473	42.49%

*Note: Manipur Telemetry Re-Checked at 1200 Hrs. 03/10/2018.

NERLDC may please deliberate.

D.28 Maintaining Healthiness of +/- 800 kV Multi-Terminal HVDC BNC-Alipurduar-Agra

During the last three months it has been observed that frequent tripping of HVDC poles are taking place for +/- 800 kV Multi-Terminal HVDC BNC-Alipurduar-Agra. List of trippings are attached in **Annexure-D.28**.

400 kV Kishenganj-Patna D/C and 400 kV Purnea- Biharshariff D/C lines are on prolonged outage due to tower collapse and there is high hydro power generation in Sikkim and North Eastern Region. An account of the above, reliability of +/- 800 kV Multi-Terminal HVDC BNC-Alipurduar-Agra is very important. Any incident involving further tripping in the corridor may become a cause for major grid disturbance and system separation affecting Cross- Border transaction of power.

It is requested to share a copy of Frequency Controller settings adopted at Biswanath Chariali.

NERLDC may please deliberate.

D.29 STOA Revision by OTPC, Palatana

OTPC has merchant power share of approximately 13.49 % of DC, out of that OTPC is selling nearly 65 MW to Assam as STOA bilateral transaction. Now in real time, if one unit goes under forced outage, the merchant quantum also gets reduced. If Palatana doesn't revise their STOA and keep it as 65 MW only, then PALATANA schedule becomes more than DC. So PALATANA needs to revise their STOA to maintain their schedule as per DC.

In IEGC, the generating plant can revise their STOA if it goes under forced outage. Similar to in case of tripping, in case of Emergency shutdown also, the STOA schedule has to be revised by Palatana once the unit goes under outage. The schedule will be revised in the fourth time block considering the time block in which request has been received as the first time block as per Cl.6.5.19 of IEGC.

NERLDC may please deliberate.

D.30 Intimation of readiness for availing approved OCC shutdown on D-3 basis:

As deliberated during 138th OCC Meeting, all the indenting agency has to inform about the readiness of all the OCC approved shutdowns on D-3 basis (D is date of availing Shutdown) to NERLDC via mail.

It has been observed that SLDC Assam is not sending the intimation of readiness for availing OCC approved Shutdown on D-3 basis. It is requested to kindly send the intimation of readiness for availing OCC approved Shutdown on D-3 basis for proper system study before the shutdown.

NERLDC may please deliberate.

METERING RELATED ITEMS

D.31. Procurement of additional 70 Laptops:

NERTS intimated the following in 148th. OCC meeting:

- Laptop received at the following Locations:-
Misa (Assam - 30 Nos.), Nirjuli (Arunachal Pradesh - 08 Nos), Kumarghat (Tripura - 08 Nos), Khliehriat (Meghalaya - 06 Nos), Aizawl(Mizoram - 04 Nos), Dimapur (Nagaland - 06 Nos).
- Pending Receipt at :
Imphal (Manipur - 08 Nos.)

Status of paper License:

- Cost estimate put up for Approval.
- Tendering Expected by September-2018.
- Delivery By: October-2018

It was intimated that on receipt of Software by Oct'18, these would be installed in Laptops and same can be delivered to all utilities as per list agreed in OCC by Nov'18.

NERTS may intimate status of tendering / placement of LOA.

D.32. Installation of new L&T SEMs in NER:

Khandong (05 SEMs): Installation in halt.

After discussion in 147th. OCC meeting, NEEPCO representative agreed for installation of SEM at Khandong without availing shutdown.

As per discussion with Khangdong (NEEPCO) 4 SEMs were pending out of which 01 No. already installed. Balance could not be installed as NEEPCO needed shut down to install the SEM prior to agreeing without Shut Down.

For Installation of check meters there is no need of any feeder shutdown, energy accounting concerns if any will be taken care of by NERLDC.

It was agreed that a date would be confirmed from NEEPCO and same would be intimated by NERLDC to NERTS for needful.

Status may be discussed.

Mizoram(State): 2 SEMs...Not Completed

Two SEMs are to be installed. One at LUANGMUAL end and the other at ZUANGTUI end. POWERGRID team approached the P&E officials who informed that they need approval from their higher officials for installation of SEMs. The installation is pending due to delay on part of M/s P&E Deptt. Mizoram.

Mizoram representative stated that meters cannot be installed in the current panel and installation would be possible only after new panels are put in place in both substations which are expected within a month time.

Mizoram may update status.

Loktak:

As per MOM NHPC agreed to install 4 nos. of SEM and accordingly, POWERGRID has handed over the SEMs to NHPC on 16.07.2018. NHPC representative intimated that they would install meters shortly.

Status may be discussed.

NTPC-BgTPP:

Check Meters were already installed at NTPC-BgTPP long back as confirmed by NTPC and further checked by POWERGRID. It was clarified by NERLDC that the check meters would have to be replaced by new L&T meters and for this communication has already been sent to NERTS.

Status may be discussed.

D.33. Procurement of DCD:

As per deliberation in 148th OCC meeting confirmation about GST declaration not yet received from M/s L&T after several follow ups. In this respect NERTS proposed that the procurement may be taken up directly from the supplier instead of procurement through M/s L&T.

OCC agreed to the proposal and NERTS was advised to expedite.

Status may be discussed.

D.34. Time drift in SEMs.

NTPC reported vide e-mail dated 30/08/18 that time drift correction at BgTPP end could not be done due to DCD issue. Since all 3 main meters have drifted by more than 5 minutes new L&T make meters may be installed.

It was intimated by NERTS in 148th. OCC meeting that Communication in regard to replacement of SEM received from NERLDC on 06.09.2018/12.09.2018 through mail. Same has been taken up. Replacement planned by 25-09-2018(SEM meter to be diverted from Misa to Bongaigaon S/S).

Status may be discussed.

D.35 Replacement of SEMs.

SL.NO	LOCATION	FEEDER NAME
1	BNC	BNC END OF PAVOI-I
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
6	PK BARI	PK'BARI end of 132 kV Silchar I
7	PK BARI	PK'BARI end of 132 kV Silchar II
8	NTPC	NTPC END OF 400 KV NTPC(B'GAON)-B'GAON(PG)-I (M)
9	NTPC	NTPC END OF 400 KV NTPC(B'GAON)-B'GAON(PG)-II (M)
10	NTPC	NTPC END OF 400 KV NTPC(B'GAON)-B'GAON(PG)-I (C)
11	NTPC	NTPC END OF 400 KV NTPC(B'GAON)-B'GAON(PG)-II (C)
12	GOHPUR	GOHPUR END OF 132 NIRJULI FEEDER

Status may be discussed.

D.36 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.37 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

WEEKLY SEM data from above locations not sent to NERLDC.

NERLDC may please deliberate.

Any other item:

Date and Venue of next OCC

It is proposed to hold the 150th OCC meeting of NERPC on second week of November, 2018. The date & exact venue will be intimated in due course.

Puja Load Study for Tripura for 2018

Annexure-D.26 (I)

66 kV Bagafa- Belonia, 66 kV Gokulnagar- Badharghat, 66 kV Amarpur- Gumti, 66 kV Badharghat-Rokhia, 132 kV Ambasa- Kamalpur kept open

Case No	Case Description	Tripura Demand with Bangladesh	Palatana Generation	AGTCCPP Generation	Tripura Generation		Drawl from Grid	132 kV Palatana-Udaipur	132 kV Palatana-SMNagar	132 kV Dullavchera-Dharmanagar	132 kV Silchar-PK Bari D/C	132 kV Kumarghat-PK Bari	132 kV AGTCCPP-Agartala D/C	Limits	Grid Voltage
					Own Generation	Monarchak									
1	As per Demand Required by Tripura	470	600	80	78	90	302	58	135	16	2x17	3	2x34		Low Voltage at AGTCCPP = 125 kV, Agartala= 124 kV, Surajmaninagar= 123 kV, PK Bari= 124 kV, Kumarghat = 124 kV
2	N-1 (132 Palatana-Udaipur out)	470	600	80	78	90	302	0	179	19	2x20	2	2x36	132 kV Palatana Surajmaninagar (180 MW)	Low Voltage at AGTCCPP = 126 kV, Agartala= 125 kV, Surajmaninagar= 124 kV, PK Bari= 125 kV, Kumarghat = 125 kV
3	N-1 (132 kV Palatana-Surajmaninagar)	230	600	80	78	90	62	34	0	-7	2x1	-10	2x26	132 kV Monarchak - Rokhia Line (79 MW)	Voltage at AGTCCPP = 132 kV, Agartala= 132 kV, Surajmaninagar= 130 kV, PK Bari= 129 kV, Kumarghat = 129 kV
4	N-1 (Monarchak Generation)	350	600	80	78	0	272	79	107	7	2x12	-4	2x32	132 kV Palatana-Udaipur (79 MW)	Voltage at AGTCCPP = 130 kV, Agartala= 129 kV, Surajmaninagar= 128 kV, PK Bari= 128 kV, Kumarghat = 128 kV
5	N-1 (Rokhia Generation)	440	600	80	23	90	327	72	138	17	2x18	2	2x36	132 kV Monarchak - Rokhia (79 MW)	Low Voltage at AGTCCPP = 126 kV, Agartala= 125 kV, Surajmaninagar= 124 kV, PK Bari= 125 kV, Kumarghat = 125 kV
6	N-1 (Baramura Generation)	470	600	80	58	90	322	61	142	19	2x19	5	2x35		Low Voltage at AGTCCPP = 127 kV, Agartala= 126 kV, Surajmaninagar= 125 kV, PK Bari= 126 kV, Kumarghat = 126 kV
7	N-1-1 (Monarchak + Rokhia Generation)	270	600	80	23	0	247	79	95	3	2x10	-9	2x32	132 kV Palatana Udaipur (79 MW)	Voltage at AGTCCPP = 130 kV, Agartala= 129 kV, Surajmaninagar= 129 kV, PK Bari= 128kV, Kumarghat = 128 kV
8	N-1-1-1 (Monarchak + Rokhia + AGTCCPP)	210	600	0	27	0	183	79	106	5	2x12	-13	2x-3.6	132 kV Palatana Udaipur (79 MW)	Low Voltage at AGTCCPP = 127 kV, Agartala= 127 kV, Surajmaninagar= 127 kV, PK Bari= 128 kV, Kumarghat = 128 kV

पावर सिस्टम ऑपरेशन करपोरेशन लिमिटेड
(भारत सरकार का उद्यम)
POWER SYSTEM OPERATION CORPORATION LIMITED
(A Government of India Enterprise)



उत्तर पूर्वी क्षेत्रीय भार प्रेषण केंद्र : लोअर नंगरा, लापालांग, शिलांग-793006, (मेघालय)
North Eastern Regional Load Despatch Centre: Lower Nongrah, Lapalang, Shillong - 793006, (Meghalaya)
Ph : 0364-2537470, 2537427, Fax - 2537486 Website : www.nerldc.org, Email - nerldc@posoco.in, CIN : U40105DL2009GOI188682

संदर्भ : NERLDC/ED/SOII/1506

दिनांक : 01/10/18

सेवा में : Director (Technical),

TPGL,
Bidyut Bhawan,
North Banamalipur, Agartala,
Tripura 799007

विषय : Preparation for catering load to Tripura during Puja 2018.

महोदय,

It had been observed that demand of Tripura was highest during the period of Durga Puja of previous years. It is expected that similar trend will continue during the period of Durga Puja of 2018. For facilitating reliable and secure power supply to Tripura during the Durga Puja 2018, NERLDC conducted system studies based on the data furnished by SLDC Tripura. The study results are attached in Annexure-I. SLDC Tripura has projected a demand of 470 MW (including Bangladesh) during Durga Puja 2018. While conducting the studies, NERLDC observed that there will be Low Voltage in Tripura Power System while catering a load of 470 MW. The following issues are identified for reliable and secure power supply to Tripura during Durga Puja 2018:-

- Ensure reliable gas supply & if possible supply of enhanced quantum of gas may be explored by coordinating with gas supply agencies.
- Exploring possibilities to maximize the generation of Rokhia and Baramura Gas Based Power Plants
- Checking and rectification of protection settings of all 132 kV transmission elements and downstream elements owned by TSECL.
- Patrolling and vegetation clearance of all the lines owned by TSECL before Durga Puja 2018.
- Identify 190 MW Load for immediate disconnection in case of tripping of 132 kV Surajmaninagar (TSECL)- Palatana (OTPC) S/C line.

This is also to highlight that during last week there were four (4) number of Grid Disturbances in Tripura Power System. In order to avoid such disturbances in future mainly during Durga Puja 2018, it is requested to kindly look into the matter immediately.

धन्यवाद एवं सादर सहित।

Enclosure: As mentioned above.

भवदीय / Yours sincerely,

(टी. एस. सिंह / T.S.Singh)

(कार्यपालक निदेशक / Executive Director)

Puja Load Study for Tripura for 2018

66 kV Bagafa- Belonia, 66 kV Gokulnagar- Badharghat, 66 kV Amarpur- Gumti, 66 kV Badharghat-Rokhia, 132 kV Ambasa- Kamalpur kept open

Case No	Case Description	Tripura Demand with Bangladesh	Palatana Generation	AGTCCPP Generation	Tripura Generation		Drawl from Grid	132 kV Palatana-Udaipur	132 kV Palatana-SMNagar	132 kV Dullavchera-Dharmanagar	132 kV Silchar-PK Bari D/C	132 kV Kumarghat-PK Bari	132 kV AGTCCPP-Agartala D/C	Limits	Grid Voltage
					Own Generation	Monarchak									
1	As per Demand Required by Tripura	470	600	80	78	90	302	58	135	16	2x17	3	2x34		Low Voltage at AGTCCPP = 125 kV, Agartala= 124 kV, Surajmaninagar= 123 kV, PK Bari= 124 kV, Kumarghat = 124 kV
2	N-1 (132 Palatana-Udaipur out)	470	600	80	78	90	302	0	179	19	2x20	2	2x36	132 kV Palatana Surajmaninagar (180 MW)	Low Voltage at AGTCCPP = 126 kV, Agartala= 125 kV, Surajmaninagar= 124 kV, PK Bari= 125 kV, Kumarghat = 125 kV
3	N-1 (132 kV Palatana-Surajmaninagar)	230	600	80	78	90	62	34	0	-7	2x1	-10	2x26	132 kV Monarchak - Rokhia Line (79 MW)	Voltage at AGTCCPP = 132 kV, Agartala= 132 kV, Surajmaninagar= 130 kV, PK Bari= 129 kV, Kumarghat = 129 kV
4	N-1 (Monarchak Generation)	350	600	80	78	0	272	79	107	7	2x12	-4	2x32	132 kV Palatana-Udaipur (79 MW)	Voltage at AGTCCPP = 130 kV, Agartala= 129 kV, Surajmaninagar= 128 kV, PK Bari= 128 kV, Kumarghat = 128 kV
5	N-1 (Rokhia Generation)	440	600	80	23	90	327	72	138	17	2x18	2	2x36	132 kV Monarchak - Rokhia (79 MW)	Low Voltage at AGTCCPP = 126 kV, Agartala= 125 kV, Surajmaninagar= 124 kV, PK Bari= 125 kV, Kumarghat = 125 kV
6	N-1 (Baramura Generation)	470	600	80	58	90	322	61	142	19	2x19	5	2x35		Low Voltage at AGTCCPP = 127 kV, Agartala= 126 kV, Surajmaninagar= 125 kV, PK Bari= 126 kV, Kumarghat = 126 kV
7	N-1-1 (Monarchak + Rokhia Generation)	270	600	80	23	0	247	79	95	3	2x10	-9	2x32	132 kV Palatana Udaipur (79 MW)	Voltage at AGTCCPP = 130 kV, Agartala= 129 kV, Surajmaninagar= 129 kV, PK Bari= 128kV, Kumarghat = 128 kV
8	N-1-1-1 (Monarchak + Rokhia + AGTCCPP)	210	600	0	27	0	183	79	106	5	2x12	-13	2x-3.6	132 kV Palatana Udaipur (79 MW)	Low Voltage at AGTCCPP = 127 kV, Agartala= 127 kV, Surajmaninagar= 127 kV, PK Bari= 128 kV, Kumarghat = 128 kV

Annexure-D.28

Sl. No.	Name of Element	Owner	Outage Date	Outage Time	Revival Date	Revival Time	Reason End1	Reason End2
1	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	02-Jul-2018	12:01:00	02-Jul-2018	12:45:00	No tripping	OLTC relay trip at converter Transformer
2	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	17-Jul-2018	12:27:00	17-Jul-2018	13:01:00	DC Line Fault	No tripping
3	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	30-Jul-2018	04:03:00	30-Jul-2018	05:58:00	Fire Alarm Trip	Fire Trip(VESDA Zone-3)
4	800 kV Biswanath Chariali - Agra 1 HVDC	POWERGRID	27-Aug-2018	00:23:00	27-Aug-2018	15:30:00	DC Line Fault	DC Line Fault
5	800 kV Biswanath Chariali - Agra 1 HVDC	POWERGRID	29-Aug-2018	09:22:00	29-Aug-2018	13:20:00	Y-Block Ordered	Metallic Return Conductor Ground Fault Protection
6	800 kV Biswanath Chariali - Agra 1 HVDC	POWERGRID	02-Sep-2018	07:58:00	02-Sep-2018	12:11:00	DC Line Fault	DC Line Fault
7	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	04-Sep-2018	00:55:00	04-Sep-2018	04:22:00	VESDA	No tripping
8	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	04-Sep-2018	11:13:00	04-Sep-2018	13:22:00	VESDA	No tripping
9	800 kV Biswanath Chariali - Agra 1 HVDC	POWERGRID	04-Sep-2018	12:26:00	04-Sep-2018	13:44:00	DC Line Fault	Not Furnished
10	800 kV Biswanath Chariali - Agra 1 HVDC	POWERGRID	06-Sep-2018	04:02:00	06-Sep-2018	05:29:00	DC Line Fault	DC Line Fault
11	800 kV Biswanath Chariali - Agra 1 HVDC	POWERGRID	14-Sep-2018	12:16:00	14-Sep-2018	15:31:00	DC Line Fault	Not Furnished
12	800 kV Biswanath Chariali - Agra 1 HVDC	POWERGRID	15-Sep-2018	12:16:00	15-Sep-2018	17:08:00	DC Line Fault	Not Furnished
13	800 kV Biswanath Chariali - Agra 1 HVDC	POWERGRID	16-Sep-2018	11:45:00	16-Sep-2018	13:50:00	DC Line Fault	DC Line Fault
14	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	22-Sep-2018	11:35:00	22-Sep-2018	15:34:00	DC Line Fault	No tripping
15	800 kV Biswanath Chariali - Agra 2 HVDC	POWERGRID	30-Sep-2018	02:15:00	30-Sep-2018	12:45:00	DC Line Fault	Not Furnished