

# North Eastern Regional Power Committee

## Agenda For

### 136<sup>th</sup> OCC Sub-Committee Meeting

Time of meeting : 10:00 Hrs.

Date of meeting : 13<sup>th</sup> September, 2017 (Wednesday)

Venue : "Hotel Nandan", Guwahati.

#### **A. CONFIRMATION OF MINUTES**

#### **CONFIRMATION OF MINUTES OF 135<sup>th</sup> MEETING OF OPERATION SUB-COMMITTEE OF NERPC.**

The minutes of 135<sup>th</sup> meeting of Operation Sub-committee held on 18<sup>th</sup> August, 2017 at Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2016/4556-4591 dated 31<sup>st</sup> August, 2017.

*The Sub-committee may confirm the minutes of 135<sup>th</sup> 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 135<sup>th</sup> OCC:

State	Protection System	ADMS	CAPACITOR INSTALLATION	SAMAST
Arunachal Pradesh	Tendering in process.	DPR preparation stage.	-	SLDC to apprise SERC of the project.
Nagaland	Work under execution. Completion by 30.09.17.	Under scrutiny of Techno-Economic Sub-group.	Under process of approval. To submit undertaking and other required documents.	Documents and relevant papers have been furnished to Nagaland SERC as desired by Chairperson, SERC. SERC has requested for a presentation at Kohima/Nagaland by the SAMAST group
Mizoram	By Sept'17 all LOAs would be issued.	Under scrutiny of Techno-Economic Sub-group.	Proposal on hold. To be considered upon funds being available.	To furnish action plan.
Manipur	By Sept'17	Pilot project	To submit pilot	To furnish action plan.

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	all tenders to be completed. By Sept-Oct'17 all LOAs' to be issued.	under scrutiny of Techno-Economic Sub-group.	scheme DPR	
Tripura	LOAs to be issued by Sept'17.	DPR under internal scrutiny.	Under Study stage**	NERPC/NERLDC members to meet TSERC /TSECL higher officials to enable take-off of the project.
Assam	By Sept'17 all LOAs would be issued. BCU scheme all LOAs issued.	Under scrutiny of Techno-Economic Sub-group.	-	Identification of intra-State entities and total number of SEMs required would be completed shortly. To nominate their representative for SAMAST implementation committee.
Meghalaya	MePTCL – 75% LOAs by Aug'17. 25% balance LOAs will be completed by Sept' 2017. MePGCL – by Sept, 2017 all LOAs	DPR submitted to CEA & NLDC	DPR to be prepared.	To initiate activity for identification of Metering points.

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 134th OCC	Latest status
63MVAR		SE, MeECL requested that a report be submitted specifically mentioning that terminal	

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Reactor at Byrnihat to replaced with 80MVAR Reactor	MePTCL	equipments need not be replaced.  EE(SP),MePTCL assured that the DPR for 80MVAR Reactor will be prepared and submitted.	
400KV 80MVAR Bus Reactor at Palatana	OTPC	04 Nos bushing to be replaced. Work would be completed by OTPC itself. Tentative completion 31.10.2017.	
132 kV Jiribam – Rengpang S/C	MSPCL	Line charged from Rengpang end. The 132/33kV 20MVA transformer at Jiribam end is to be commissioned before line can be charged from Jiribam end.	
132 kV Mariani (AEGCL) – Mokochung (DoP, Nagaland) S/C	DoP Nagaland & AEGCL	Line cannot be charged due to low insulation. Outlay of Rs 26 lakhs to be sanctioned within Aug'17.	
132 kV P K Bari – Silchar I & II	NERTS	Nov'17-One circuit (subject to weather condition)	
132 kV Dimapur - Dimapur I	NERTS	132kV Dimapur- Kohima GIS breaker rectified but still some work to be done then can be put in service. 132kV Dimapur-Dimapur I CB to be free by Sept'17.	
132 kV Hailakandi – Dullavcherra	AEGCL	Restoration work to be started by Oct'17.	
250MW Unit#II BgTPP	NTPC	Synchronized to grid on 14.08.17(19:01 Hrs). To be dropped and Status of Unit#II to be monitored in its place.	

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

**3. Furnishing of various data for reliable grid operation:**

Data regarding	Status as of 135 <sup>th</sup> OCC	Status as of 136 <sup>th</sup> OCC
UFR Operation Report	SLDCs of Assam, Meghalaya, Mizoram, Nagaland & Tripura submitted for July'17. SLDCs of Arunachal Pradesh & Manipur yet to submit for July'17.	
Reporting Commissioned of	SLDCs of Assam, Manipur, Meghalaya,	

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Elements for Tarang App	Nagaland & Tripura submitted for July'17. SLDCs of Arunachal Pradesh & Mizoram yet to submit for July'17.		
DAS output for FRC calculation	OTPC, RHEP has submitted data for the event mentioned**, AGTPP Extension has no DAS installed as per mail received Monarchak is to submit data from next event		
Furnishing Geographic co-ordinates of nodes	-		
Report on VDI/FDI	SLDCs of Assam and Meghalaya only submitting. Other SLDCs are requested to send the same.		
DG healthiness report	Revised format was once again circulated by NERLDC. Kopili, Nagaland & OTPC has only submitted for July'17.		
Auxiliary Supply details	NERTS (for few S/S), NHPC, NEEPCO, OTPC, MePTCL and DoP Nagaland has submitted details. NERTS(Rest), NTPC, DoP Ar. Pradesh, AEGCL, MSPCL, P&ED Mizoram & TSECL yet to submit details.		
Technical & Commercial data for PoC (Q4 2017-18)	-		
Disturbance/Tripping Report	-		
Daily Operational Data	All SLDCs are sending. Agenda may be dropped		
Operating Procedures.	<b>Items</b>	<b>Data submitted by</b>	
	OP of States	Not submitted by any SLDCs	
	OP of HVDC	Not Submitted	
	OP of Transmission System	Not submitted by any constituents	
	OP of Generating Stations	Not submitted by any generators	
	OP of GIS	Not submitted by any constituents	
Data related to Power Map.	<b>Items</b>	<b>Data submitted by</b>	
	Communcation (PLCC/OPGW/ GPRVSAT/ Satellite	Not submitted by any constituents	
	SEM Location	Not submitted by any constituents	

Date & Time of event	Brief description	Name of ISGS who will submit	Whether data submitted
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		<b>DAS data</b>	
27-July-17 at 10:08 Hrs	On 27-July-17 at 10:08 Hrs Teesta III & Dikchu tripped. Generation loss was around 993 MW.	Palatana, BgTPP, AGTCCPP Extn, Ranganadi	Palatana, Ranganadi submitted data, BgTPP no generation during the event
<i>AGTCCPP, AGBPP, Khandong, Kopili, Doyang and Loktak may please intimate their DAS implementation schedule.</i>			

<b>Generating Stations having no DAS system</b>	<b>Schedule of DAS implementation</b>
Loktak	2019
AGTCCPP GTGs	R&M not yet proposed
AGTCCPP STGs	Confirmation to be provided in next OCC meeting
AGBPP	R&M not yet proposed
Khandong	R&M not yet proposed
Kopili	R&M not yet proposed
Kopili Stg -II	R&M not yet proposed
Doyang	R&M not yet proposed

## NERLDC has also requested that Water level, inflow details, discharge quantity & Number of Gate opening (in case of spillage) of Hydro Plants be recorded on a 12 hour basis (2 entries in a day) and to be submitted to NERPC & NERLDC on a monthly basis for proper operational planning.

***NERPC/NERLDC may please inform the status.***

**B.2. OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING AUGUST, 2017**

As per the data made available by NERLDC, the grid performance parameters for August, 2017 are given below:

**NER PERFORMANCE DURING AUGUST, 2017**

States	Energy Met (MU)		w.r.t. July,17 % inc (+) /dec (-)	Energy Reqr. (MU)		w.r.t. July,17 % inc (+) /dec (-)	% inc (+) /dec (-) of energy reqr vs met. In Aug,17
	August-17	July-17		August-17	July-17		
Ar. Pradesh	64.99	60.32	7.74	66.25	61.42	7.86	-1.90
Assam	919.39	889.84	3.32	958.86	928.77	3.24	-4.12
Manipur	65.62	60.95	7.66	67.13	62.35	7.67	-2.25
Meghalaya	123.02	117.29	4.89	123.02	117.29	4.89	0.00
Mizoram	36.01	36.70	-1.88	37.04	37.70	-1.75	-2.78
Nagaland	71.88	65.70	9.41	73.25	66.82	9.62	-1.87
Tripura	124.32	120.59	3.09	127.11	122.21	4.01	-2.19

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<b>Region</b>	<b>1405.24</b>	<b>1351.39</b>	<b>3.98</b>	<b>1452.66</b>	<b>1396.57</b>	<b>4.02</b>	<b>-3.26</b>
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States	Demand Met (MW)		w.r.t. July,17 % inc (+) /dec (-)	Demand in (MW)		w.r.t. July,17 % inc (+) /dec (-)	% inc (+) /dec (-) of Demand vs met. In Aug,17
	Aug-17	July-17		Aug-17	July-17		
Ar. Pradesh	130	131	-0.76	132	132	0.00	-1.52
Assam	1684	1645	2.37	1735	1675	3.58	-2.94
Manipur	163	158	3.16	164	161	1.86	-0.61
Meghalaya	297	303	-1.98	297	305	-2.62	0.00
Mizoram	81	82	-1.22	84	84	0.00	-3.57
Nagaland	137	136	0.74	138	140	-1.43	-0.72
Tripura	271	266	1.88	276	271	1.85	-1.81
<b>Region</b>	<b>2442</b>	<b>2429</b>	<b>0.54</b>	<b>2529</b>	<b>2507</b>	<b>0.88</b>	<b>-3.44</b>

**REGIONAL GENERATION & INTER-REGIONAL EXCHANGE IN MU**

**AVERAGE FREQUENCY (Hz)**

Month---->	August-17	July-17	Month---->	August-17	July-17
Total Generation in NER (Gross)	1409.517	1529.262		% of Time	% of Time
Total Central Sector Generation (Gross)	960.812	1119.030	Below 49.9 Hz	7.12	6.56
Total State Sector Generation (Gross)	448.705	410.232	Between 49.9 to 50.05 Hz	76.99	76.15
<b>Inter-Regional Energy Exchange</b>			Above 50.05 Hz	15.88	17.29
(a) NER-ER	<b>0.00</b>	<b>0.00</b>	Average	49.99	50.00
(b) ER-NER	<b>554.91</b>	<b>555.41</b>	Maximum	50.20	50.23
(c) NER-NR	<b>404.26</b>	<b>592.49</b>	Minimum	49.65	49.69
(d) NR-NER	0.00	0.00			
© Net Import	150.65	-37.08			

**C. OLD ITEMS**

**4. Status of Generating Units, Transmission Lines in NER:**

During 136<sup>th</sup> OCC meeting, the status as informed by different beneficiaries is as follows:

SN	Items	Status as given in 135 <sup>th</sup> OCC Meeting	Status as given in 135 <sup>th</sup> OCC Meeting
<b>a. New Projects</b>			
1	CoD of Unit -II of Bongaigoan TPS of NTPC		CoD by Oct'17

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2	400/220kV, 315 MVA ICT-1 of NTPC at Bongaigaon		ICT-1 - Nov'17***
3	Kameng HEP of NEEPCO two units (2 x 150 MW) Next two units (2x150 MW)		Delay in dam construction. First unit by early 2018.
4	Pare HEP of NEEPCO (2 x 55 MW)		Delay in dam construction. First unit by early 2018.
5	400 kV D/C Silchar - Melriat line of PGCIL		December, 2017.
6	220kV Rangia - Salakati of AEGCL		Remaining Piling work to be completed by 2 months. By Mar'18 to be completed.
7	132kV Monarchak – Surjamaninagar D/C of TSECL		Compensation issue. Target March'18
8	132kV Surjamaninagar Bay at OTPC		SCM amendment not required.
9	400kV D/C Balipara – Kameng		To be matched with Kameng HEP.
10	RHEP 80 MVAR Bus Reactor		By Aug'17 TS to be finalized after financial clearance and approval of CMD.
11	SLDCs (Ar. Pradesh, Manipur, Mizoram, Nagaland)		Manipur – Completed, Mizoram- Completed, Nagaland-Building ready and handed over, AP- SAT going on.
12	400/220 kV 315 MVA ICT-II at Bongaigaon		Manufacturing stage
13	220/132 kV, 2x160 MVA ICTs at Balipara		ICT -I - Aug'17 ICT-II delayed.
14	220/132 kV, 1x160 MVA ICT with GIS Bay at Kopili		Delayed.
15	400/132 kV, 1x315 MVA ICT-III at Silchar		Delayed.
16	Replacement of 2x315 MVA ICTs with 2x500 MVA ICTs at Misa (PG)		Delayed.
17	400 kV Silchar – Misa D/C		2019
18	1x125 MVAR Bus Reactor at 400 kV at		December, 2017(LOA date).

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	Balipara		
19	1x125 MVAR Bus Reactor at 400 kV Bongaigoan		December, 2017(LOA date).
20	Bays at Hailakandi & 132V Silchar-Hailakandi		Oct'17
21	Tuirial HEP of NEEPCO		Unit #I - Sept'2017 Unit #II - Oct'2017
22	400 kV, 2x63 MVAR Bus Reactor at Biswanath Chariali		Reactor #I - 17.07.17 doco Reactor #II - Aug'17
23	220 kV, 1x31.5 MVAR Bus Reactor at Mokokchung		December'2017
24	33kV bay at 220kV Mariani(AS) S/Sn		Equipment erection to be completed by Aug'17
<b>b. Elements under breakdown/ upgradation</b>			
25	Up-gradation of 132 kV Lumshnong-Panchgram line		S.E.(C&O) requested that since NPC has agreed for PSDF funding DPR be finalized at the earliest.
26	Switchable line Reactors at 400kV Balipara & Bongaigoan		Bongaigaon-Oct'17
27	PLCC Panels at Loktak end of Loktak – Ningthoukhong 132 kV feeder and Loktak - Rengpang 132 kV feeder		May'2018
28	LILO of 132kV Ranganadi – Nirjuli at Pare of NEEPCO by PGCIL		LILO completed. Line yet to be charged
29	LILO of 132kV Ranganadi – Itanagar (Chimpu) at Pare of Ar. Pradesh		Bay 1 at RHEP for Pare: Sept'17 Bay 2 at RHEP for Itanagar: Mar'18
30	LILO portion of 132kV Ranganadi – Nirjuli(diversion work) at Lekhi by DoP Ar. Pradesh		December'2017
31	Replacement of Main-I relay for 400kV Silchar-Byrnihat at Byrnihat S/Sn		MeECL to intimate in next OCC.



***Concerned constituents may kindly intimate the status.***

**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 below.***

**D.2 Outage Planning Transmission elements**

It was agreed in the 99<sup>th</sup> OCC meeting that shutdown will be availed only after approval is given by the OCC forum. It was also agreed that deferment/revision of outages elements other than already approved in OCC will be henceforth put/displayed in the website of NERPC (**under Operational Activities/OCC Approved shutdown**) as per CERC regulations/ CEA guidelines etc for ensuring smooth & secure grid operation.

**Furnishing request of shut down of the element, which was approved by NERPC, by Indenting Agency (ISTS licensees/STUs/Generating Companies) to NERLDC:** Planned shutdown approved by NERPC shall be considered for implementation by NERLDC on D-3 basis. If an outage is to be availed on say 10<sup>th</sup> of the month, the shutdown availing agency would reconfirm to NERLDC on 7<sup>th</sup> of the month by 10:00 Hr. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC.

In 130<sup>th</sup> OCCM, Member Secretary opined strongly about non commitments of earlier decision by the constituents and stated that all proposed plan shutdowns and agenda for the next OCC meeting should be sent to NERPC Secretariat latest by 5<sup>th</sup> day of

Agenda for 136<sup>th</sup> OCC Meeting to be held on 13<sup>th</sup> September, 2017 next month. He directed SE(C&O) that the decision should be strictly adhere to and no shutdowns or agenda will be entertained after that stipulated date.

In 134<sup>th</sup> OCCM, it was decided that all communication related shutdown be approved in OCC forum only.

***The sub-Committee may kindly discuss and approve the transmission line outages proposed by Constituents for September, 2017 - October, 2017 at Annexure- D.2., which is available in the website of NERPC.***

**D.3 Estimated Transmission Availability Certificate (TAC) for the month of April, 2017& May, 2017:**

NETC and POWERGRID have submitted the outage data for the month of April 2017 & May 2017. 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 04.09.17. All SLDCs are requested to assess the Total Transfer Capability (TTC), Transmission Reliability Margin (TRM) and Available Transfer Capability (ATC) for the month of Oct'17 using these cases, and submit the study cases and results to NERLDC by 18.09.17.

NERLDC has assessed the state control area wise, state sub-system wise and group of control-area wise TTCs for NER Grid, on behalf of SLDCs of NER. The study results conducted by NERLDC mailed to all SLDCs on 08.09.17. SLDCs are requested to check the TTC of their control areas as computed by NERLDC and give comments, if any, by 18.09.17.

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 122<sup>nd</sup> OCC meeting of NERPC, all SLDCs of NER may host the assessed TTC / ATC / TRM figures on their website for information dissemination.

2 Days Training program on Power System Study using PSS/E Software w.e.f 24.08.17 to 25.08.17 organized by NERLDC for the participants of SLDC, Assam at NERLDC Conference Room, Shillong.

***Members may discuss.***

**D.5. Reduction of OTPC load up to 320 MW (Ex Bus) by NERLDC:**

During S/D of 400 KV Silchar- Byrnihat line on 03/08/2017 OTPC load was reduced up to 320 MW. The S/D was approved in OCC and it was discussed that S/D will be approved in real time situation, with no reduction of OTPC generation, but on real time NERLDC was directed to OTPC for load reduction.

In 135<sup>th</sup> OCCM, OTPC representative stated that mode changeover for Palatana modules is difficult and advance intimation of 2 time blocks is at least required. GM, NERLDC informed that OTPC was informed the previous day evening. OTPC representative also stated that generation reduction of OTPC is required due to SPS -3 modification not being completed and OTPC is being deprived commercially due to generation reduction. He requested NERTS to do the needful at 400kV Silchar S/S at the earliest. NERTS agreed.

***NERTS may please intimate the status.***

#### **AGENDA ITEMS FROM NERLDC:**

#### **D.6. Implementation of SPS for transfer of 160 MW power to Bangladesh through Tripura-Bangladesh link and modifications suggested for other SPSs in NER:**

In Special Meeting on SPS, UFR etc. held on 23.06.17, Chief Manager, NERTS, POWERGRID presented the draft scheme to implement the suggested SPS for transfer of 160 MW power to Bangladesh through Tripura-Bangladesh link. **The Sub-Committee discussed the suggested schemes in detail and agreed in principle to implement the schemes.**

**The forum requested NERPC to take up the matter with CEA/CTU/NLDC for implementation at the earliest after vetting in OCC forum.**

It was also decided to **implement the modifications finalized by the forum for already installed SPSs in NER at the earliest.** For implementation of the modifications, high speed trip relays are to be put in place. **POWERGRID was requested to install High Speed Trip Relays at Azara, Byrnihat and Silchar so that the modified SPS-2, 3 & 4 will be in service at the earliest.**

Mock test of SPS-2 & SPS-3 was done on 27<sup>th</sup> Jul'17. As per report submitted by OTPC, during the mock test on 27<sup>th</sup> Jul'17, **it took 147 milliseconds to reach DT signal from Silchar to Palatana.** However, as per discussions in Special Meeting on SPS, UFR etc held on 23<sup>rd</sup> Jun 2017, **total operational time for SPS-2 & 3 should be less than 100 millisecond** to save the Tripura system/ Southern Part of NER system. During the mock test on 27<sup>th</sup> Jul'17, 400 kV Silchar – Palatana I line tripped. Detailed report from POWERGRID is yet to be submitted.

**Modified schemes in totality and mock test plan for SPS may please be presented in the OCC meeting by implementing agencies.**

***NERLDC may please deliberate.***

#### **D.7. Restricted Governor Mode of Operation for Open Cycle Gas Turbine/Combined Cycle Generating Stations**

As per amended section 5.2.f of IEGC by CERC dated 12.04.2017, **Open Cycle Gas Turbine/Combined Cycle generating stations having gas turbines of capacity more than 50 MW each**, which are synchronized with the grid, irrespective of their ownership, shall have their governors in operation at all times and these generating units shall be operated under RGMO with effect from **01.10.2017.**

***This is for information & necessary action please.***

**D.8. Delayed submission of data for preparation of CEA monthly PSP Report**

CEA Monthly PSP report is to be prepared by NERLDC on 1<sup>st</sup> working day of every month. It is observed that few utilities (**NTPC, P&ED Mizoram & DoP Arunachal Pradesh**) are not submitting the data required for preparation of this report on time. Due to this delay in submission or non-submission of data by Power Utilities, preparation of monthly PSP as well as submission of the report to CEA is getting delayed.

**It is requested to all Power Utilities to submit the data of previous month, required for preparation of Monthly PSP report, by forenoon of 1<sup>st</sup> working day of the next month.**

***NERLDC may please deliberate.***

**D.9. Data required for Calculation of Energy Loss on Account of Silt**

The Ministry of Power has set up a committee headed by Chairman BBMB to study the impact of silt on the hydro reservoirs in the country. A review of this committee's progress was taken by Joint Secretary Hydro on 28<sup>th</sup> Aug 2017. In this meeting, it was decided to compile the monthly plant wise energy loss figure due to siltation issue for last 4-5 years.

Energy loss due to siltation occurs on account of the closing down of plant when silt level exceeds a prescribed level as well as outages required on account of flushing of the reservoir.

NEEPCO, NHPC, AEGCL, MePGCL, TPGCL, DoP Nagaland, P&ED Mizoram are requested to kindly share the details in desired format for hydro plants within a week.

Desired format is attached as **Annexure-D.9**

***NERLDC may please deliberate.***

**D.10. Ratification of projected demand and generation for Q3 of 2017-18 (July to Sep'17)**

In the 3<sup>rd</sup> Validation Committee meeting for PoC application period Oct'15- Dec'15, held on 30<sup>th</sup> September 2015, at NLDC conference Hall, CERC had proposed a methodology for ratification of projected data at RPC forum.

In the **3<sup>rd</sup> validation committee meeting held on 29<sup>th</sup> Aug'17**, Implementing Agency presented the comparison of projected and actual peak demand met for Q1 of 2017-18. It was observed that for some of the states, the difference was more than 2%. **Chief Engg., CERC suggested that the difference should not be more than 2%. All the states are requested to provide projected demand near to actual.** Comparison of projected and actual peak demand met of NER States for Q1 of 2017-18 is attached as **Annexure D.10.**

***This is for information & necessary action please.***

**D.11. Submission of the Annual Load Generation Balance Report (LGBR) for Peak as well as Off-peak scenarios and the Annual outage plan for 2018-19 by 31.10.17 as per IEGC**

a) As per IEGC, each SLDC shall submit LGBR for its control area, for peak as well as off-peak scenario, **by 31<sup>st</sup> October 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.

b) 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 31<sup>st</sup> 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.

***This is for information & necessary action please.***

**D.12. Low voltage in Tripura-Mizoram:**

It is seen that everyday during peak hours voltage in 132 kV Tripura –Mozoram sub-system comes down to around 122-124 kV. During this time the MW drawal of Bangladesh remains at 140-160MW while their VAR drawal remains to around 44-50 MVAR. Tripura drawal from grid also remains high. The system voltage in the sub-system comes down to 122-124 kV level [ in RC Nagar(122), Agartala(123), Aizawl(124)] and this part of grid remains very vulnerable. In spite of opening of all line/bus reactors at Silchar, voltage condition remains grim. MVAR support from Monarchak, Rokhia, Baramura remains low or no support as per the MVAR capability curve of the machines.

As highlighted above whenever system voltage comes down to 124 kV during peak hours, RCNagar machines trip aggravating the situation. RCNagar generation comes down to around 15-20 MWs.

**Members may please discuss the gravity of the situation and suggest corrective actions to be taken by utilities.**

***NERLDC may please deliberate.***

**D.13. Telemetry problems at various important locations :**

<b>Monarchak Telemetry Station</b>	STG MW/MVAR data out. Monarchak-SM Nagar line data suspect. Realtime MW/MVAR monitoring and Tripura System voltage control problem..
<b>LIKHIMRO gen data not available.</b>	Monitoring of generation and Nagaland demand computation problem.
<b>MELRIAT (charged on 30.08.17) data not available</b>	132 kV BUS at Melriat and 2 nos of lines charged and Mizoram draw power from those lines but no telemetry data available. Mizoram drawal computation

	problem.
<b>Balipara RTU out</b>	Very Important RTU but telemetry not available at NERLDC. Regional system frequency reference taken from Balipara. Balipara is connected to Bongaigaon, BNC/HVDC, Misa & Samaguri. Non-availability of data creates lot of operational problems
<b>Ranganadi Telemetry out</b>	Biggest hydro generating station but data not available. Real time operational problem
<b>Nirjuli Telemetry out</b>	Arunachal system visualisation problem. Arunachal and Assam drawal computation problem.
<b>Ziro RTU out</b>	Arunachal drawal computation problem.
<b>Roing and Pasighat telemetry out</b>	Newly commissioned sub station. Arunachal system visualisation problem.

*NERLDC may please deliberate.*

**D.14. Outage of Important RTUs in Assam:**

Even after up-gradation of SCADA/EMS system in Assam it is observed that around 2/3 rd numbers of RTUs are not reporting (Against 66 only 18 reporting). Assam occupies major portions of NER Grid and outage of such large no of RTUs results in problem for real time grid Management and proper assessment of grid condition. Data from 220 kV stations like BTPS, AGIA, BOKO and some other inter connecting stations are available.

*NERLDC may please deliberate.*

**D.15. Maloperation at Palatana:**

At 0816 hrs on 05.09.17 400 kV Palatana-Silchar-1, 400/132 kV, 125MVAX2 ICTs at Palatana and 132 kV lines tripped. As reported the reason behind the incidence was wrong operation of one of the Earth switches. This is a very serious issue from safety of personnel and security of the grid. Palatana is requested to elaborate the incidence. They are also requested to please take corrected action to avoid such incidence in future.

*NERLDC may please deliberate.*

**AGENDA ITEMS FROM TSECL:**

**D.16. Supply of Peak Demand during Puja:**

Estimated peak demand of the state during Durga Puja will be about 315 MW & Bangladesh will be about 165 MW. Availability from own generation will be about

80MW. The balance 400 MW has to be drawn from the grid. Like previous year TSECL needs support from all NER states, NERLDC, NERPC, PGCIL, NEEPCO, and NHPC. Open access arrangement is being done apart from bilateral drawal from MIZORAM.

***TSECL may please deliberate.***

**D.17. Non-functioning of SCADA:**

SCADA is not functioning properly as a result drawal & injection is being left unknown to the beneficiaries. Because of the outage of many important lines among the connectivity of Tripura system SCADA data availability of 132 KV Kumarghat – Badarpur & 132 KV Kumarghat – Aizwal and along with Palatana & its outgoing feeder's data particularly must be displayed at SLDC which are very vital for real time operation. Central sector/CTU has to ensure undisruptive availability of the same.

***TSECL may please deliberate.***

**D.18. Outage of 132kV P.K.Bari-Silchar I&II:**

400 KV P.K. BARI – SILCHAR line-I & II (Charged at 132 KV) are out of circuit for a long. During Puja period at least restoration of one line is utmost necessary for stability of the system.

***TSECL may please deliberate.***

**D.19. Non-returning of shutdowns in a timely manner:**

Availing of shutdown of vary important link lines namely 400 KV Silchar – Palatana L-I & II, 132 KV Badarpur – Kumarghat, 400 KV S M Nagar- Palatana (Charged at 132 KV) etc. as per 135<sup>th</sup> OCCM approval and in many cases delay-return of those lines, Tripura system suffered a lot particularly with very low voltage issues initiating de-synchronization of other generators which put the system in very vulnerable conditions. Forum may take such matters more cautiously in future while allowing s/d and may study case to case basis about the impact of such shutdown to mitigate the severity.

***TSECL may please deliberate.***

**Any other item:**

**Date and Venue of next OCC**

It is proposed to hold the 137<sup>th</sup> OCC meeting of NERPC on second week of October, 2017. The date & exact venue will be intimated in due course.

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## North Eastern Region

<b>Arunachal Pradesh</b>	<b>132</b>	<b>138</b>	<b>-4%</b>
<b>Assam</b>	<b>1534</b>	<b>1415</b>	<b>8%</b>
<b>Manipur</b>	<b>157</b>	<b>161</b>	<b>-3%</b>
<b>Meghalaya</b>	<b>289</b>	<b>319</b>	<b>-9%</b>
<b>Mizoram</b>	<b>82</b>	<b>93</b>	<b>-11%</b>
<b>Nagaland</b>	<b>132</b>	<b>126</b>	<b>5%</b>
<b>Tripura</b>	<b>265</b>	<b>285</b>	<b>-7%</b>