



भारत सरकार Government of India

विद्युत मंत्रालय Ministry of Power

उत्तर पूर्वी क्षेत्रीय विद्युत समिति

**North Eastern Regional Power Committee**

एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय  
NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya

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Website: www.nerpc.nic.in

No. NERPC/SE (O)/OCC/2017/4593-4630

Dated: December 04, 2017

To,

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Managing Director, APDCL, Bijuli Bhawan, Guwahati – 781 001
3. Managing Director, APGCL, Bijuli Bhawan, Guwahati – 781 001
4. Director (Generation), Me. PGCL, Lumjingshai, Short Round Road, Shillong – 793 001
5. Director (Distribution), Me. ECL, Lumjingshai, Short Round Road, Shillong – 793 001
6. Director(Transmission), Me. PTCL, Lumjingshai, Short Round Road, Shillong – 793 001
7. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal – 795 001
8. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001
9. Director (Tech.), TSECL, Banamalipur, Agartala -799 001.
10. Director (Generation), TPGCL, Banamalipur, Agartala -799 001.
11. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
12. Chief Engineer (EE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
14. Engineer-in-Chief (P&E), Department of Power, Govt. of Mizoram, Aizawl – 796 001
15. Chief Engineer (P), Department of Power, Govt. of Nagaland, Kohima – 797 001
16. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
17. Group General Manager, NTPC, Bongaigoan Thermal Power Project, P.O. Salakati, Kokrajhar- 783369
18. ED, NERTS, PGCIL, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
19. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
20. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
21. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
22. Vice President (Plant), OTPC, Badarghat Complex, Agartala, Tripura - 799014
23. GM, NERLDC, Dongtiah, Lower Nongrah, Lapalang, Shillong -793 006
24. Member Secretary, ERPC, 14 Golf Club Road, Tollygunge, Kolkata-700033
25. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066
26. Chief Engineer (NPC), NRPC Complex, Katwaria Sarai, SJSS Marg., New Delhi - 110016

**Sub: Minutes of 138<sup>th</sup> OCC Meeting.**

Sir/Madam,

Please find enclosed herewith the minutes of 138<sup>th</sup> OCC Meeting held at Guwahati on the **24<sup>th</sup> November, 2017** for your kind information and necessary action. The minute is also available on the website of NERPC, [www.nerpc.nic.in](http://www.nerpc.nic.in).

Any comments/observations may kindly be communicated to NERPC Secretariat at the earliest.

**Encl: As above**

भवदीय / Yours faithfully,

बि. लिंगखोइ / B. Lyngkhoi

निदेशक / Director/ SE

Copy to:

1. CGM, AEGCL, Bijuli Bhavan, Guwahati - 781001
2. CGM, APGCL, Bijuli Bhavan, Guwahati - 781001
3. CGM, DISCOM, Bijuli Bhavan, Guwahati - 781001
4. Head of SLDC, Me.ECL, Lumjingshai, Short Round Road, Umjarain, Shillong – 793 022
5. Head of SLDC, Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
6. Head of SLDC, Department of Power, Dimapur, Nagaland
7. Head of SLDC, Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
8. Head of SLDC, Department of Power, Govt. of Mizoram, Aizawl – 796 001
9. Head of SLDC, TSECL, Agartala – 799 001
10. Chief Engineer(Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
11. Addl. GM (EED), NTPC Ltd., Bongaigoan Thermal Power Project, P.O. Salakati, Kokrajhar- 783369
12. DGM (C&M), OTPC, 6th Floor, A-Wing, IFCI Tower -61, Nehru Place, New Delhi – 110019.



**निदेशक / Director/ SE**

## North Eastern Regional Power Committee

### **MINUTES OF THE 138th OPERATION COORDINATION**

#### **SUB-COMMITTEE MEETING OF NERPC**

**Date** : 24/11/2017 (Friday)  
**Time** : 10:00 hrs  
**Venue** : "Hotel Pragati Manor", Guwahati.

The List of Participants in the 138<sup>th</sup> OCC Meeting is attached at **Annexure - I**

Shri B. Lyngkhoi, Director/S.E (C&O), NERPC welcomed all the participants to the 138<sup>th</sup> OCC meeting. He informed the members that Member Secretary NERPC would not be able to chair this meeting due to other commitments in CEA HQR. He mentioned that all commitments in the last OCC would be updated in the meeting. Further, he highlighted that there were tremendous improvements and achievements during the last few months and the same could be seen in reduction of repeating items and this is a healthy sign for the region. He also informed that a meeting to discuss PSDF related issues would be held by NPC on 15.12.2017 under the Chairmanship of Member (GO&D), CEA and members from NLDC would also attend the above meeting. He requested all the constituents to complete the NIT, LOAs etc., for R&M under PSDF before the above meeting and furnish the latest status to NERPC Secretariat on or before the above meeting. He then requested all the members to take active part in the discussion for fruitful deliberations.

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

##### **CONFIRMATION OF MINUTES OF 137<sup>th</sup> MEETING OF OPERATION SUB-COMMITTEE OF NERPC.**

The minutes of 137<sup>th</sup> meeting of Operation Sub-committee held on 27<sup>th</sup> October, 2017 at Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2016/4556-4591 dated 03<sup>rd</sup> November, 2017.

*The Sub-committee confirmed the minutes of 137<sup>th</sup> OCCM of NERPC with no modifications 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 138<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 31.12.17.	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	Main Equipment and Diagnostic Tools LOA issued. Civil Works LOA by 14.12.17	To be further examined by Techno-Economic Sub-group after interaction with consultant.	Proposal on hold. To be considered upon funds being available.	To furnish action plan.
Manipur	By Sept'17 all tenders to be completed. By Sept-Oct'17 all LOAs' to be issued.	Pilot project under scrutiny of Techno-Economic Sub-group. To submit clarification.	-	NERPC/NERLDC members to meet SERC /MSPCL higher officials to enable take-off of the project.
Tripura	LOAs' completed. MI complete by Nov'17.	Submitted to NPC/NLDC.	Under Study stage**	NERPC/NERLDC members to meet TSERC /TSECL higher officials to enable take-off of the project.

Assam	Remaining tenders by 1 <sup>st</sup> week of Dec'17.	Under scrutiny of Techno-Economic Sub-group.	-	Joint meeting of Assam, Meghalaya, NERLDC & NERPC to be held at Kahelipara on 22.09.17 for finalization of DPR.
Meghalaya	MePTCL –Only 10% Communication Equipment LOA remaining. To be completed by 14.12.17. MePGCL – 2 remaining items LOA by Nov'17	DPR submitted to CEA & NLDC	-	Draft submitted. DPR

**Deliberation of the sub-Committee:**

NERLDC suggested that installation of Line Differential Protection and Transmission Line Arrestors be monitored under this item.

S.E(C&O),NERPC opined that once schemes and DPR are finalised for Line Differential Protection it may be reviewed periodically. In case of Transmission line Arrestors upon the completion of works by NERTS, the efficacy of TLAs in mitigating lightning related trippings would be studied in detail. Based on the study results utilities would then take up the projects for funding from PSDF.

DGM(MO), NERLDC updated some recent developments regarding SAMAST:-

- Signed quotation would have to be provided by vendors to Assam for DPR & CE finalization.
- Assam, Meghalaya joint DPR is yet to be finalized.
- DGM(MO), NERLDC informed that in a meeting with MeECL, it was decided that SAMAST will be implemented in totality for the entire State of Meghalaya irrespective of MePTCL/MePGCL

S.E.(C&O) informed that due to a slew of meetings the visit to Manipur, Tripura for SAMAST scheme could not be scheduled. He informed that SAMAST group would visit in the 1<sup>st</sup> week of Dec'17. He also requested all the utilities to be completely prepared with the latest status as well as their queries before the meeting on 15<sup>th</sup>.

***The Sub-Committee noted as above.***

***Action: All state utilities/NERPC.***

**2. Outage of Important Grid Elements:**

Name of the Element	Name of Utility	Status as informed in 137 <sup>th</sup> OCC
63MVAR Reactor at Byrnihat to replace with 80MVAR Reactor	MePTCL	DPR complete. Board approval awaited.
400KV 80MVAR Bus Reactor at Palatana	OTPC	04 Nos bushing to be replaced. Work would be completed by OTPC itself. Tentative completion 31.12.2017.
132 kV Jiribam – Rengpang S/C	MSPCL	Line charged from Rengpang. The 132/33kV, 20MVA transformer at Jiribam (MA) charged on 25.10.2017.
132 kV Mariani (AEGCL) – Mokokchung (DoP, Nagaland) S/C	DoP Nagaland & AEGCL	Line cannot be charged due to low insulation. RCE of ₹ 43 lakhs to be sanctioned by Nov'17.
132 kV P K Bari – Silchar I & II	NERTS	Ckt#I on ERS w.e.f.16.11.2017. Both circuits on permanent structure by Dec'17.
132 kV Dimapur - Dimapur I	NERTS	Bay work at Dimapur(PG) completed by NERTS. Nagaland has to charge from their end. To be dropped.
132 kV Hailakandi – Dullavcherra	AEGCL	By Dec'17.
250MW Unit#II BgTPP	NTPC	DoCO 01.11.2017. To be dropped.

***The Sub-Committee noted as above.***

***Action: AEGCL, MePTCL, OTPC, NERTS, NERLDC/NERPC.***

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

Data regarding	Status as of 138 <sup>th</sup> OCC
DAS output for FRC calculation	Mail sent to ISGS on 23.11.17 for furnishing DAS output for tripping of TPCIL on 30.08.17 at 21:37 Hrs and Talwandi Sabo on 12.11.17 at 07:14 Hrs
Furnishing Geographic co-ordinates of nodes	DoP, Arunachal Pradesh, AEGCL, MSPCL, P & ED Mizoram, DoP Nagaland and TSECL yet to submit the data.
Report on VDI/FDI	Submitted by SLDC of Assam (Daily Basis), Meghalaya (Monthly Basis), P & ED Mizoram and DoP, Nagaland
DG healthiness report	AGBPP, Kopili, DoP Nagaland, Loktak and OTPC submitted for Oct'17

Auxiliary Supply details	To be reviewed after Third Party Protection Audit	
Technical & Commercial data for PoC (Q4 2017-18)	NTPC, NEEPCO, OTPC, NHPC, DoP Arunachal Pradesh, MSPCL, AEGCL, MePTCL, P & ED Mizoram, DoP, Nagaland submitted the data. TSECL submitted all except YTC data.	
Operating Procedures.	<b>Items</b>	<b>Data submitted by</b>
	OP of States	Submitted only by AEGCL and MePTCL
	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>
	Communication (PLCC/OPGW/GPRSVSAT/Satellite)	Not submitted by any constituents
Data related to Single Line Diagram.	State SEM Location	Not submitted by any constituents

## 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.

**Status on submission of Data during 138th OCC\***

Station	Water level (12 hours basis)	Inflow	Discharge	Gate Opening
Kopili	Daily Basis	<b>Not giving</b>	Daily Basis	Daily Basis
Khandong	Daily Basis	<b>Not giving</b>	Daily Basis	Daily Basis
Ranganadi	<b>Monthly basis upto Oct'17</b>	Daily Basis	Daily Basis	<b>Not giving</b>
Doyang	<b>Daily Basis</b>	<b>Not giving</b>	<b>Monthly Basis upto Oct'17</b>	<b>Monthly Basis upto Oct'17</b>
Loktak	<b>Monthly Basis upto Oct'17</b>	<b>Monthly Basis upto Oct'17</b>	<b>Monthly Basis upto Oct'17</b>	<b>Monthly Basis upto Oct'17</b>
Nagaland	<b>Monthly Basis upto Oct'17</b>	<b>Monthly Basis upto Oct'17</b>	<b>Monthly Basis upto Oct'17</b>	<b>Not giving</b>

Meghalaya	Monthly Basis upto Oct'17	Not giving	Not giving	Monthly Basis upto Oct'17
Assam	Not giving	Not giving	Not giving	Not giving
Tripura	Not giving	Not giving	Not giving	Not giving

Members requested NERLDC to give a presentation in the next OCC meeting on the application of the data being collected, its utility for the grid operation particularly and the source from where the requirement has come from.

**The Sub-committee noted as above.**

**Action: All utilities as above.**

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

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

### **NER PERFORMANCE DURING SEPTEMBER, 2017**

States	Energy Met (MU)		w.r.t. Aug,17 % inc (+) /dec (-)	Energy Reqr. (MU)		w.r.t. July,17 % inc (+) /dec (-)	% inc (+) /dec (-) of energy reqr vs met. In Sept,17
	September-17	August-17		September-17	August-17		
Ar. Pradesh	64.90	64.99	-0.14	66.13	66.25	-0.18	-1.86
Assam	876.70	919.39	-4.64	920.44	958.86	-4.01	-4.75
Manipur	65.39	65.62	-0.35	66.72	67.13	-0.61	-1.99
Meghalaya	116.62	123.02	-5.20	116.62	123.02	-5.20	0.00
Mizoram	36.05	36.01	0.11	37.04	37.04	0.00	-2.67
Nagaland	69.26	71.88	-3.64	70.38	73.25	-3.92	-1.59
Tripura	127.55	124.32	2.60	129.75	127.11	2.08	-1.70
<b>Region</b>	<b>1356.47</b>	<b>1405.24</b>	<b>-3.47</b>	<b>1407.07</b>	<b>1452.66</b>	<b>-3.14</b>	<b>-3.60</b>

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
	Sept-17	Aug-17		Sept-17	Aug-17		
Ar. Pradesh	128	130	-1.54	135	132	2.27	-5.19
Assam	1718	1684	2.02	1770	1735	2.02	-2.94
Manipur	165	163	1.23	166	164	1.22	-0.60
Meghalaya	326	297	9.76	325	297	9.43	0.31

Mizoram	85	81	4.94	87	84	3.57	-2.30
Nagaland	141	137	2.92	147	138	6.52	-4.08
Tripura	306	271	12.92	306	276	10.87	0.00
<b>Region</b>	<b>2520</b>	<b>2442</b>	<b>3.19</b>	<b>2629</b>	<b>2529</b>	<b>3.95</b>	<b>-4.15</b>

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

**AVERAGE FREQUENCY (Hz)**

Month---->	Sept-17	August-17	Month---->	Sept-17	August-17
Total Generation in NER (Gross)	1473.211	1409.517		% of Time	% of Time
Total Central Sector Generation (Gross)	1052.596	960.812	Below 49.9 Hz	11.85	7.12
Total State Sector Generation (Gross)	420.615	448.705	Between 49.9 to 50.05 Hz	78.73	76.99
<b><i>Inter-Regional Energy Exchange</i></b>			Above 50.05 Hz	9.57	15.88
(a) NER-ER	<b>2.83</b>	<b>0.00</b>	Average	49.97	49.99
(b) ER-NER	<b>465.76</b>	<b>554.91</b>	Maximum	50.32	50.20
(c) NER-NR	<b>438.76</b>	<b>404.26</b>	Minimum	49.62	49.65
(d) NR-NER	0.00	0.00			
© Net Import	24.17	150.65			

**Deliberation of the sub-Committee:**

NERLDC gave a presentation on the grid performance for the month of October 2017. NERLDC also highlighted that Daily, Weekly and Monthly Voltage Deviation Report, Frequency Deviation Report and System Reliability Report for October'17 are already mailed to all the constituents for necessary actions. Further it was informed that members may access these reports from NERLDC website under the tab CERC KPI Reports.

***The Sub-Committee noted as above.***

**ITEMS FOR DISCUSSION**

**C. OLD ITEMS**

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

During 137th OCC meeting, the status as informed by different beneficiaries is as follows:

SN	Items	Status as given in 137 <sup>th</sup> OCC Meeting	Status as given in 138 <sup>th</sup> OCC Meeting
<b>a. New Projects</b>			
1	CoD of Unit -II of Bongaigaon TPS of NTPC	CoD by Nov'17	DoCO 01.11.2017. To be dropped.
2	400/220kV, 315 MVA ICT-1 of NTPC at Bongaigaon	ICT-1 - Nov'17	ICT-1 - Mar'18
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.	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.	Delay in dam construction. First unit by early 2018.
5	400 kV D/C Silchar - Melriat line of PGCIL	March, 2018.	March, 2018.
6	220kV Rangia - Salakati of AEGCL	Delayed. Termination of agreement due to bankruptcy of construction agency.	March, 2018.
7	132kV Monarchak – Surjamaninagar D/C of TSECL	March'18.	Extension required. Letter to be sent to NERPC.
8	400kV D/C Balipara – Kameng	To be matched with Kameng HEP.	Combined Studies to be conducted in detail by NERLDC and NERPC and to be reviewed in next OCCM
9	RHEP 80 MVAR Bus Reactor	Studies to be conducted in detail.	Ar. Pradesh, Nagaland- Mar'18 Manipur, Mizoram - CoD
10	SLDCs (Ar. Pradesh, Manipur, Mizoram, Nagaland)	All SLDCs' by Mar'18 full fledged operation.	March, 2018.
11	400/220 kV 315 MVA ICT-II at Bongaigaon	Manufacturing stage	ICT-II: delayed
12	220/132 kV, 2x160 MVA ICTs at Balipara	ICT-I: DoCO 31.09.17. ICT-II: delayed	March, 2018.
13	220/132 kV, 1x160 MVA ICT with GIS Bay at Kopili	Delayed.	March, 2018.

14	400/132 kV, 1x315 MVA ICT-III at Silchar	Delayed.	March, 2018.
15	Replacement of 2x315 MVA ICTs with 2x500 MVA ICTs at Misa (PG)	Delayed.	2019
16	400 kV Silchar – Misa D/C	2019	March, 2018(LOA date).
17	1x125 MVAR Bus Reactor at 400 kV at Balipara	December, 2017(LOA date).	March, 2018(LOA date).
18	1x125 MVAR Bus Reactor at 400 kV Bongaigoan	December, 2017(LOA date).	DoCO 16.11.2017. To be dropped.
19	Bays at Hailakandi & 132V Silchar-Hailakandi	Nov'17	Unit #I - Trial run completed Unit #II - Dec'2017
20	Tuirial HEP of NEEPCO	Unit #I - Trial run completed Unit #II - Dec'2017	Nov'17
21	400 kV, 63 MVAR Bus Reactor #II at Biswanath Chariali	Oct'17	Nov'17
22	33kV bay at 220kV Mariani(AS) S/Sn	Formalities to be completed by NERTS with AEGCL.	Metering issues to be taken up with APDCL by NERTS
23	33kV Tezu-Tezu(AP)	Dec'17	-
24	33kV bay for 132kV Badarpur(PG) S/Sn	APDCL to revert back with status.	APDCL to revert back with status.

**b. Elements under breakdown/ upgradation**

25	Up-gradation of 132 kV Lumshnong-Panchgram line	Tendering in process.	DPR already submitted to NERPC/NLDC.
26	Switchable line Reactors at 400kV Balipara & Bongaigoan	CSD to be procured. Bongaigaon-Dec'17	CSD to be procured. Bongaigaon-Dec'17
27	PLCC Panels at Loktak end of Loktak – Ningthoukhong 132 kV feeder and Loktak - Rengpang 132 kV feeder	May'2018	May'2018
28	LILO of 132kV Ranganadi – Nirjuli at Pare of NEEPCO by PGCIL	Completion to be confirmed in writing by NERTS.	LILO completed. Two towers to be diverted. Complete by Dec'17.

29	LILO of 132kV Ranganadi – Itanagar (Chimpu) at Pare of Ar. Pradesh	Bay 1 at RHEP for Pare: Dec'17 Bay 2 at RHEP for Itanagar: Mar'18	-
30	LILO portion of 132kV Ranganadi – Nirjuli(diversion work) at Lekhi by DoP Ar. Pradesh	Dec'17	-
31	Replacement of Main-I relay for 400kV Silchar-Byrnihat at Byrnihat S/Sn	Nov'17	By second week of Dec'17.
32	Re-conductoring of 132kV Umiam Stg#III - Umtru	DPR preparation stage.	DPR prepared. Submitted for approval.

**Deliberation of the sub-Committee:**

SE(C&O), NERPC suggested that henceforth progress of NERPSIP projects may be monitored in item C.1. Members welcomed the proposal and concurred. NERTS was requested to depute concerned official in OCC meetings for updation of status etc.

***The Sub-Committee noted as above.***

***Action: All state utilities/central utilities/NERPC.***

**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	2		39.75	724.1
Kopili-II	1			
Kopili	4		257.2	609.44
Ranganadi	3		Subject to inflow	
Doyang	3		33.0	323.05
Loktak	3		250.00	768.94
AGBPP	-	-	-	-
AGTPP	-	-	-	-

***Hydro planning***

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

**Deliberation of the sub-Committee:**

***The Committee discussed and approved the proposed shutdown by Generating Stations and the same has already been uploaded in the website of NERPC.***

**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 124<sup>th</sup> OCCM, SE(C&O) strongly opined that constituents should inform to NERPC/NERLDC in case shutdown is not avail as approved in the OCC meeting and should mention clearly the reason for not availing the shutdown. The full list of shutdown would be placed in the next OCC by NERLDC so that proper record can be made in future for generating units as well as transmission lines. All constituents endorsed the view of SE(C&O).

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 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.

**Deliberation in the Meeting:**

SE(C&O), NERPC again advised the forum that all proposed plan shutdowns for the next OCC meeting should be sent to NERPC Secretariat at least five days in advance

of next OCC meeting. Any shutdown sent after D-6 will not be considered. It was also decided that OCC Meeting notice will be given 10 days in advance.

The details of shutdowns availed during 28th October to 23rd November, 2017 are mentioned below:

Total no. of Approved Shutdown	Applied on D-3	Not Applied on D-3	Shutdown availed	Shutdown not availed
90	21	69	71	19

NERLDC informed all utilities that OCC approved S/D to be strictly intimated in D-3 basis (D- Day of S/D) to NERLDC. Further the number of cases of non-intimation (69 out of 90) for 137<sup>th</sup> OCCM approved S/D must be less for 138<sup>th</sup> OCCM.

*The sub-Committee discussed and approved the proposals received from the constituents regarding transmission elements and generating units for November, 2017 - December, 2017 and the same has already been uploaded in website of NERPC.*

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

NETC and POWERGRID have submitted the outage data for the month of June & July, 2017. So the attributability of outage of the said elements may please be finalized.

**Deliberation in the Meeting:**

The forum once again advised NETC & POWERGRID to submit data in a time bound manner as decided previously.

*The Sub-Committee noted as above.*

**Action: NERPC**

**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 had been mailed to all the SLDCs on 02.11.17. All SLDCs are requested to assess the Total Transfer Capability (TTC), Transmission

Reliability Margin (TRM) and Available Transfer Capability (ATC) for the month of Nov'17 using these cases, and submit the study cases and results to NERLDC by 31.10.17.

NERLDC has assessed the state control area wise, state subsystem wise and group of control-area wise TTCs for NER Grid, on behalf of SLDCs of NER. The study results will be presented in the meeting. SLDCs are requested to check the TTC of their control areas as computed by NERLDC and give comments, if any, by 30.11.17.

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.

**Deliberation in the meeting**

SLDC Tripura gave a presentation on the TTC/ATC calculations done by them for Q4 FY17-18. The forum appreciated the efforts and requested SLDC Mizoram to give presentation in next OCC meeting.

NERLDC has assessed TTC of each state control area of NER, each state subsystem on behalf of SLDCs of NER and group of control-area wise TTCs for NER Grid:

States	Off-peak		Peak	
	N-0	N-1	N-0	N-1
Arunachal	212	188	204	177
Assam	1713	1571	1675	1495
Manipur	338	259	338	260
Meghalaya	358	200	327	181
Mizoram	129	118	129	118
Nagaland	175	90	171	74
Tripura (including Bangladesh)	258	111	322	85

***The Sub-Committee noted as above.***

***Action: All SLDCs.***

**D.5. 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.

In 136<sup>th</sup> OCCM, S.E(C&O), NERPC informed that due to various engagements a meeting could not be organised at Bangladesh for implementation of SPS. He requested TSECL to make necessary arrangements for the meeting slated to be held tentatively in October, 2017.

Sr. Consultant, NETC informed that of late 400kV Silchar- Byrnihat is frequently tripping due to severe lightning problem. These outages are severely affecting OTPC. He further informed that SPS-3 testing was done on 27<sup>th</sup> July but timing was observed to be 147ms much greater than the 100ms decided in SPS scheme. He requested MeECL/AEGCL to accelerate procurement of HS trip relay at Byrnihat & Azara as decided previously. The forum requested POWERGRID to procure HS trip relay on behalf of MePTCL & AEGCL as this will accelerate the process. The forum advised OTPC not to implement SPS through DCS but through hard wiring as decided in SPS meeting on 23.06.17. The forum decided that Mock testing would be conducted once procurement and installation related to modified schemes are in place.

**Deliberation in the meeting**

S.E. (C&O), NERPC informed that a meeting in Bangladesh would be convened very soon and exact date would be intimated in Dec'17. CM, NERTS informed that SPS-2/3 modified scheme (attached at **Annexure D.5.**) has been completed in all respects at Silchar, Byrnihat and Azara. DGM(O&M),OTPC informed that SPS-3 is commissioned at Palatana. Works for modification of SPS-2 is going on and is slated to be over by 30.11.2017. S.E.(C&O),NERPC congratulated all officials engaged in commissioning of SPS particularly NERTS for taking a proactive approach all

through for the welfare of the system. After detailed deliberation the forum decided to drop the agenda item and monitor the progress of SPS commissioning w.r.t. Bangladesh Power Supply as separate agenda item.

Regarding Modus-Operandi for SPS mock testing the forum requested NERTS to prepare a draft sequence of operation for each SPS and present in next OCC for ratification. The date for SPS 2 and SPS 3 mock testing will also be finalized in next OCC Meeting.

***The Sub-Committee noted as above.***

***Action: OTPC/MeECL/NERTS/NERPC.***

**D.6. 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.

In 137<sup>th</sup> OCCM, SE(C&O), NERPC requested all the utilities to submit data by 31.10.2017 so that LGBR may be prepared and finalized by Nov-Dec'17.

AEGCL & P&E, Mizoram already submitted the data.

**Deliberation in the meeting**

SE(C&O), NERPC requested all the utilities to submit data by 30.11.2017 so that LGBR may be prepared and finalized by Dec'17. The forum requested NERPC to consider only generation capacity that will be able to generate in FY17-18 rather than the entire Installed Capacity for accurate projections.

AEGCL informed the forum that Adamtilla and Baskhandi generating station have been decommissioned. TSECL informed that some units of Rokhia and Baramura have also been decommissioned. SE(C&O), NERPC directed AEGCL and TSECL to write letter to CEA regarding the same.

***The Sub-Committee noted as above.***

***Action: All utilities***

#### **D.7. Low voltage in Tripura-Mizoram:**

It is seen that everyday during peak hours voltage in 132 kV Tripura –Mizoram 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, R.C. Nagar machines trip aggravating the situation. R.C. Nagar generation comes down to around 15-20 MWs.

In 136<sup>th</sup> OCCM, Sr. Manager, TSECL opined that AGTCCPP and Monarchak GBPP are not providing reactive power support as per capability curve.

Sr. Manager, NEEPCO countered that is not the case and generators are supplying reactive power according to grid conditions.

DGM(MO),NERLDC stated that as a practice, generators are not supposed to provide reactive power support to beneficiaries, rather Tripura should have its own Capacitor banks in place to support the grid. He further opined that generators are rated to operate under normal circumstances at around 0.8/0.9 pf lag and inject accordingly.

The forum requested TSECL to regulate Bangladesh MVAR drawal and conduct meeting at appropriate level in this regard.

Member Secretary, NERPC concluded that Tripura should conduct studies and submit DPR of scheme for installation of Capacitor banks at the earliest.

As per deliberations in 17th TCC/RPC it was decided that System Studies for reactive compensation would be conducted by Tripura & Mizoram. Elements like 400kV Silchar-Melriat and other about to be commissioned elements are to be considered while conducting the studies

**Deliberation in the meeting**

Sr. Manager, TSECL informed that currently there are no low voltage problems in Tripura sub-system. After detailed deliberation the forum decided to drop the agenda item and review later on if required.

***The Sub-Committee noted as above.***

**D.8. SCADA & Communication Issues:**

**A. Non-availability of CB status** - Numbers of CB status of ISTS , ISGS as well as STUs are out or wrong since long and due to this Sequence of Events reports are not indicating correct pictures of events of the Grid. In case of any tripping/disturbance SOE is one of the main report through which we can analyze any event but as CB status are not updating correctly, SOE is not giving correct picture of chronological events. So all the concerned utilities are requested to look into matter so that all CB statuses are logged correctly.

**MW and MVAR data validation:**

For correctness of real time data i.e. MW/MVAR/KV/FREQUENCY validation is required between the real time system data available at control centres and actual status at site in every quarter and report has to be maintained for verification. But in absence of this validation process, numbers of MW/ MVAR / Voltage data are not reporting correctly and ultimately misleading the real time system operators.

The 137<sup>th</sup> OCC forum felt that loss of data and telemetry at NERLDC is a serious issue. This has been a subject of intense discussion in NETeST forum. After detailed deliberation it was decided that commitments w.r.t. RTU/SCADA/Communication would be reviewed in a tabular form in every OCC meetings.

**The latest status including voice communication is attached at Annexure D.8.**

**Deliberation in the meeting**

CM, NERTS informed that Analog & Digital Data for Bongaigaon, Salakati & Dimapur would be restored by Dec'17. However other station data would take some time. The

forum hoped that most stations would resume reporting once OPGW Expansion works are finished. Members referred the matter of modus-operandi regarding data validation to the NETeST forum.

***The Sub-Committee noted as above.***

**Action: NERTS**

**D.9. Ratification of Demand & Generation Projection for Q4 FY17-18:**

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

In line with the decision in the Validation Committee meeting, Demand and Generation projections w.r.t North Eastern Region constituents as given by Implementing Agency is attached in **Annexure D.9** for ratification in 138<sup>th</sup> OCC Meeting of NERPC.

**Deliberation in the meeting**

The forum ratified the projection figures with the following modifications:-

- Assam demand 1500 MW
- Manipur demand 173 MW.
- Meghalaya demand 315 MW.
- Meghalaya generation 278 MW
- Kopili generation 188 MW

***The Sub-Committee noted as above.***

**D.10. Shutdown of gas supply to AGBPP:**

M/s AGCL has planned to carry out Gas Pigging and cleaning works of 7.2 km Kathalguri OCS to NEEPCO gas pipe line along few other maintenance works as per guidelines of PNGRB (Petroleum and Natural Gas Regulatory Board) in 1st week of December, 2017 with total shut down of gas supply to NEEPCO for a period of 10 days and intimated us accordingly vide their letter dtd 27.10.2017.

NEEPCO however has strongly expressed its disapproval on the proposed initiatives taken by AGCL in such a short notice and issued a letter requesting them to defer the program till August/ September, 2018 (high hydro season) giving sufficient notice period to NEEPCO thus enabling it to do necessary planning.

On reply, M/s AGCL vide their letter under ref sl no. 3 has informed NEEPCO that the subject maintenance will be difficult to carryout in the month of Aug-Sept due to high underground water table and proposed to execute the works during 15th Feb to 25th Feb, 2018.

As there will be no generation from AGBP during the shutdown period of 10 days, NEEPCO has to take prior approval from the OCC.

The details are attached at **Annexure - D.10.**

**Deliberation in the meeting:**

After detailed deliberation the forum decided that shutdown period may be fixed in the period 01.04.2018 to 10.04.2018. NEEPCO was requested to pursue with M/s AGCL and fix the shutdown period.

***The Sub-Committee noted as above.***

***Action: NEEPCO.***

**D.11. Revision of Restoration Procedures of NER 2017:**

System Restoration procedure of NER Grid was last updated in December'2016. Since then changes have been taken place in the NER network and the procedure needs to be revised. Further as per IEGC clause 5.8(a) this document needs to be revised annually. 2016 version of Restoration Procedure of NER is available in NERLDC website ([www.nerldc.org/documentindex.aspx](http://www.nerldc.org/documentindex.aspx)) and it is password protected. Password was informed during the meeting. So all entities of NER Grid are requested to please go through the 2016 revision of Restoration procedure & annexures and forward to NERLDC the changes in Network, Power maps etc., by 5th December'2017 so that draft Restoration Procedure can be prepared and published before 139th OCC. In this connection NERLDC vide no. NERLDC/SO-I/10477-90 dt.09/11/2017 was communicated to all for reference. It was decided that the Procedure is to be finalized by end of Dec, 2017 positively.

**Deliberation in the meeting**

NERLDC requested all utilities to send their feedback on 2016 version at the earliest. Meghalaya gave their feedback during the meeting.

***The Sub-Committee noted as above.***

***Action: All utilities.***

**D.12. Recording of operational instructions over VOIP in RLDC:**

It is very important to record operational instructions and keep these records for future requirement. As per CEA grid standards regulations 2010 (point 8) recording of instructions by RLDC as well as SLDCs are compulsory. Due to absence of recording system with VOIP communication system established since 2015 all real time instructions and conversations thro' this network are getting lost and can't be produced whenever it is required. Though there is provision of voice recorder with present VOIP voice communication system but it is not yet implemented. It may please be noted that recording facility was available in earlier PUNWARE ULDC dedicated communication system.

**Deliberation in the meeting**

After detailed deliberation it was decided that hardware key would be purchased by NERTS and recorder installed at NERLDC.

***The Sub-Committee noted as above.***

***Action: NERTS.***

**D.13. Voltage Deviation Index of PALATANA and BgTPP:**

As per VDI reports issued by NERLDC and uploaded in website, the voltage at 400 kV BgTPP and 400 kV Palatana buses are found to be going out of IEGC band (above 420 kV) for considerable time on regular basis as shown below.

Date	Time in Hrs	
	BGTPP	PALATANA
11-11-2017	3.58	3.43
12-11-2017	3.8	4.05
13-11-2017	6.4	5.1
14-11-2017	2.9	1.39
15-11-2017	6.13	5.1

Being generator buses, the voltages are supposed to be controlled by varying the MVAR injection / drawal and maintaining the same inside IEGC band at all times.

**Deliberation in the meeting**

After detailed deliberation the forum requested BgTPP and Palatana GBPP to conduct Internal study and revert back to the forum.

***The Sub-Committee noted as above.***

***Action: NTPC/OTPC.***

**D.14. Transformer Tap optimization:**

System study was conducted by NERLDC considering load, generation and network pattern of November, 2017 during Peak & Off Peak periods. Suggested taps position of important transformers in NER for maintaining bus voltages within permissible limit as well as to minimize system losses are attached at **Annexure D.14.**

***Deliberation in the meeting***

NERLDC is conducting tap optimisation studies on half yearly basis considering lean and high hydro scenario. NERLDC showed the study results of Tap optimization for transformers in NER Grid for February 2018 scenario which represents lean hydro period and suggested that voltage profile is improved most in Byrnihat after changing tap from their present setting. NERLDC also highlighted that due to the inter-connected system, tap has to be changed in other transformers as well to attain the voltage profile within IEGC band as highlighted in study result.

SE(C&O), NERPC once again re-iterated that NERLDC has to write to Director(Tech.), MePTCL. DGM(MO),NERLDC opined that changing tap position at present based on scenario for February, 2018 would be inappropriate. The forum requested NERLDC to present details of tap-position required for particular periods and also frequency of change.

***The Sub-Committee noted as above.***

***Action: NERLDC.***

**D.15. Feedback to IMD on Weather Website for North Eastern Region:**

Shri Piyush Goyal, Union Minister of State (IC) for Power, Coal, New & Renewable Energy and Mines launched the Weather Portal for Power Sector in association with POSOCO and IMD at the meeting of the Forum of Regulators held at New Delhi on 23rd June'17.

NERLDC gave presentations on Weather Portal of North Eastern Region during 132<sup>nd</sup> OCC Meeting and Scientist from IMD, Guwahati also gave presentation on the Weather Portal during 134<sup>th</sup> OCC Meeting.

During a meeting held on 1<sup>st</sup> November, 2017, IMD has requested all the utilities to give their feedback on the usage of the Weather Portal.

All the utilities of NER are requested to give their feedback to NERLDC by 30<sup>th</sup> November, 2017 so that the same can be forwarded to IMD.

**Deliberation in the meeting**

NERLDC requested all constituent to give feedback by 30.11.17 regarding data available in IMD and if any additional information is required so that the same can be discussed with the concerned person from IMD.

OTPC informed that they are finding the weather portal very helpful and appreciated the facility.

***The Sub-Committee noted as above.***

***Action: All utilities.***

**D.16. Utilization of 4 nos Tertiary Reactors at Misa Sub-station:**

4 nos. Tertiary Reactors are connected in 400/220 kV, 3x105 MVA Single Phase ICT at Misa which will be replaced by 2 nos 500 MVA ICTs. It is proposed to connect 2 nos. Tertiary Reactors in each 500 MVA ICT at Misa.

**Deliberation in the meeting**

CM, NERTS informed the forum that based on present configuration at Misa the four tertiary reactors may be connected to one ICT. In case of outage of that ICT the reactors would be switched to the other ICT manually which will take around 2 to 3 minutes approximately. Members accepted the proposal and requested NERTS to implement as such.

***The Sub-Committee noted as above.***

***Action: NERTS.***

**METERING RELATED ITEMS**

**D.17. Update on Real Time Energy Assessment for Effective Grid Management:**

As decided in 137<sup>th</sup>. OCC meeting, the matter regarding visit of CDAC to NERLDC was pursued and CDAC representative visited NERLDC on 16.11.2017. Complete details of Meters pertaining to all NER States as sought by CDAC was handed over to them (**Annexure-D.17**). There are total existing 76 SEMs which would cover computation of drawal by seven States. A list of projected future meters is also given in the statement for integration as and when commissioned.

CDAC would install the AMR system to compute net drawal by each State on every 15 minute time block basis and schedule vs actual as well as computed Deviation charges would be displayed in a server in each SLDC, NERLDC and NERPC secretariat.

As all required data has been handed over, CDAC was advised to start work on the project at the earliest. CDAC need to chalk out an action plan and intimate time bound plan to NERPC so that progress can be monitored in each OCC meeting. It was suggested that work on a particular State at a time may be commenced and completed in time bound target.

**Deliberation in the meeting**

OCC was informed about the correspondence with CDAC in the subject matter. It was explained that all SEMs at ISTS in NER are with propriety protocol which would be shared by meter manufacturer with AMR provider.

TSECL representative stated that in a meeting with CDAC, they had intimated that CDAC should prepare a scheme which would be compatible with meters installed in NER ISTS. As meter manufacturer would share the protocol, CDAC should be able to execute the project.

SE (C&O), NERPC stated that some way out should be found out to enable execution of the project by CDAC with existing ISTS meters as it involves GOI grant.

After detailed deliberation, it was decided that CDAC should provide the mechanism (e.g. Converter, driver etc.) to make the existing meter compatible with their protocol so that the project can be implemented at the earliest. The forum requested NERPC to take up the matter with CDAC and find out the cost of converter, drivers etc.

***The Sub-Committee noted as above.***

***Action: CDAC/NERPC.***

**D.18. Procurement of additional 70 Laptops:**

Target as intimated by NERTS:

- i. e-RA : 30.10.2017
- ii. LOA : 15.11.2017
- iii. Material Dispatch: 30.11.2017

**Deliberation in the meeting**

Revised Target as intimated by NERTS:

- i. e-RA : 01.12.2017
- ii. LOA : 15.12.2017
- iii. Material Dispatch: 31.01.2018

***The Sub-Committee noted as above.***

***Action: NERTS.***

**D.19. Installation of new L&T SEMs in NER:**

The detailed SEM Installation schedule was submitted by NERTS and requested availability of concerned Engineers of respective utilities for installation activity.

The schedule was agreed by Metering Committee.

**Deliberation in the meeting**

NERTS intimated that installation has been completed in following locations:

- 1. Kopili: 10 SEMs.
- 2. Khandong: 10 SEMs.
- 3. Kathalguri: 16 SEMs.
- 4. Misa: 02 SEMs
- 5. NTPC: 02 SEMs.

***The Sub-Committee noted as above.***

**D.20. AMR in NER:**

**Status as intimated by NERTS in last meeting:**

The tender for AMR scheme could not be published as the cost estimate approved was of pre-GST regime. Finance Deptt recommended to frame fresh estimate with GST before tendering process. Accordingly for framing cost estimate offer from parties viz. Valiant Communications, AMI Tech, TCS were fetched. Out of these parties, received offer only from M/s Valiant communications amounting to Rs. 4.95 Crore. POWERGRID proposed to wait for 1 / 2 weeks' time for receiving offer from other parties for finalization of cost estimate based on minimum offer of at least three different vendors (subject to availability).

**Deliberation in the meeting**

NERTS intimated that no further offer has been received.

OCC advised NERTS to proceed based on the single offer from M/s Valiant communications.

***The Sub-Committee noted as above.***

***Action: NERTS.***

**D.21. Testing of SEMs at accredited laboratory:**

NERTS stated that fresh offer was received only from a single party viz. M/s Yadav Measurements Pvt. Limited. As per Offer of M/s YMPL, the estimated cost is Rs.12, 55,500.00 excluding GST @18% plus boarding/lodging /local transportation extra. POWERGRID proposed to go ahead to frame cost estimate based on single offer. Metering Committee agreed.

***Deliberation in the meeting***

NERTS intimated that tentative date of tendering would be by 31<sup>st</sup>. Dec'17.

***The Sub-Committee noted as above.***

***Action: NERTS.***

**D.22. Other Metering issues:**

SN	Location	LOC ID	Meter No	Feeder's Name	Remarks
1	SALAKATI	AS-30	NP-9434-A	Salakati end of BTPS 1	Salakati end reading 1/3 of BTPS End
2	AIZAWL	MZ-08	NP-8486-A	Aizawl end of Kolasib	Aizawl end reading 2/3 of Kolasib end
3	IMPHAL(MN)	ZZ-01	NP-8374-A	Imphal (MN)end of Imphal (PG) II	Imphal (MN) end reading 10% lower than Imphal(PG) end
4	IMPHAL(MN)	MN-01	NP-6950-A	Imphal (MN) end of Imphal(PG) I	Reverse polarity & reading higher by 12% of Imphal (PG) end
5	NINGTHOUKONG	MN-17	NP-4498-A	Ningthoukhong (MN) end of Imphal(PG)	Ningthoukhong end showing reverse polarity & reading only 12% of the other end.
6	RENGPANG	MN-11	NP-6909-A	Rengpang end of Loktak	Rengpang end showing reverse polarity

**Deliberation in the meeting**

NERTS intimated that the problems at Sl. no. 1, 2 and 5 have been addressed and remaining points would be attended within a week.

***The Sub-Committee noted as above.***

**Action: NERTS.**

**D.23. Grid Integration of RE and options for managing intra-day load/generation variation:**

In the FOR Technical Committee meeting on 18.08.2017 the various options for handling intra-day load generation were discussed which are as follows:

1. Banking.
2. DAM price on PX as reference.
3. Pool based on VC as approved by the regulator and on payment of cost.
4. Pool based on VC as approved by the regulator and on payment of marginal cost.
5. Pool based on auction (intra-day for the rest of the day).
6. Pool based on auction (hourly).
7. Pool based on auction (intra-hour i.e. 15 min Block).

The details are attached at **Annexure. D.23**

**Deliberation in the meeting**

OCC felt that the proposal regarding various options for handling intra-day load generation, if implemented would be a positive step in managing load-generation in effective manner.

OCC felt that some time would be needed to understand and analyse various options and formulate an opinion.

***The Sub-Committee noted as above.***

**D.24. Outage of important lines and availability:**

Since long, Durllavcherra- Dharmanagar & both circuit of P.K.Bari- Silchar line is out. As reliability support charge TSECL is paying the full charges in the POC mechanism. NERPC is requested to kindly look into the matter & discuss in the OCC forum.

**Deliberation in the meeting**

It was clarified that Dullavcherra-Dharmanagar is in service and not under long outage as mentioned in agenda. Regarding reliability support charge, it was clarified that same is 10% of total YTC and is shared equally by all DICs across the Country.

SE(C&O), NERPC stated that availability certification is done by NERPC in a transparent manner based on verified data of NERLDC and it can be shared with all concerned.

***The Sub-Committee noted as above.***

**ADDITIONAL AGENDA ITEM FROM MeECL:**

**D.25. Disbursement of funds for projects sanctioned under PSDF:**

MePTCL informed the forum that the issue was placed as agenda item in the 18th TCC meeting. MePTCL requested the chair to apprise on the status on mode of disbursing of PSDF fund to ensure expeditious execution of the project.

**Deliberation in the meeting**

SE(C&O), NERPC informed that the funding mode is in place in line with MoP guidelines. Further he informed that upto 90% (10%+ 20% + 60%) disbursement of fund shall be released to the constituents without waiting for inspection as anticipated earlier. He appreciated NPC, CEA for taking out the initiative in this regard. Further, he mentioned that NERPC has taken up the matter with NPC & NLDC and informed that remaining 60% (i.e. 90%) of fund would soon be released to Nagaland, Assam and Meghalaya under R&M of PSDF.

***The Sub-Committee noted as above.***

**D.26. Reliable Communication & Data Acquisition System upto 132 Kv:**

MePTCL inform the OCC forum, that the Techno Economic Sub Group was held on the 16th November 2017 at 10:30 hrs in the office of the Chief Engineer (NPC), CEA, NRPC Building, 18A, Katwaria Sarai, New Delhi wherein the scheme for Reliable Communication & DTA Acquisition System upto 132 Kv for MePTCL, Meghalaya was examined during the meeting. In the meeting the chair has accordingly suggested MePTCL to incorporate the changes and re submit the revised DPR within the Month of November 2017 for finalisation of the scheme by December 2017.

- a. The Abstract Cost Estimate at Annexure II for implementing the project/scheme has to be revised and change as under:
- (i) Point E Taxes and Duties - The Taxes and Duties has to be subsumed with GST regime.
  - (ii) Point F & Point G is to be omitted.
  - (iii) The existing cost estimates of the DPR shall be revised and resubmit based on the new SOR 2017 of Power Grid. Power Grid during the meeting agreed to share a soft copy of the SOR 2017 to MePTCL at the earliest.
    - Grant requested 100 %, Communication schemes eligible for 50%
    - Estimates to be prepared with GST. Custom duty not to be considered
    - Overheads, contingencies and IDC are ineligible expenditures to be taken out from the cost estimates.

SOR 2017 of POWERGRID may be used for preparation of cost estimates

- b. Funding for the project/scheme: The chair inform that the funding shall be based on 50:50 percent pattern, based on the MoM held on the month of May,2017. A copy of the MoM will be share to MePTCL by CEA.

MePTCL was asked to incorporate in the revised DPR, the above points as discussed, and to submit within November 2017 for finalisation by Dec2017.

**Deliberation in the meeting**

EE(SP), MePTCL requested the forum to take up with NLDC for ensuring 100% funding of the Communication related projects. The forum requested MePTCL to incorporate the changes in the revised DPR and to submit within November 2017 for finalisation by Dec 2017.

S.E.(C&O),NERPC assured the forum that the matter will be placed in the next TCC/NERPC Meetings so that funding of 100% funding or atleast 90-10 would be taken up with CEA/MoP for consideration for NER as special category states. In the meantime he requested NERTS to kindly forward new SOR to MePTCL so that new Cost Estimate can be prepared be MePTCL accordingly.

***The Sub-Committee noted as above.***

***Action: NERTS/MePTCL.***

**D.27. Integration of ADMS with SCADA at SLDC:**

EE, SLDC, MeECL requested the forum that the matter of Integration of ADMS with SCADA is to be done for successful operation of the scheme.

SE(C&O), NERPC informed that the matter was previously deliberated and kept in abeyance as the scheme was yet to transpire. However, he informed that the issue will be discussed in next OCC meeting in presence of NPC, NLDC and the agency who has prepared the DPR on behalf of States to clarify the above query of MeECL.

***The Sub-Committee noted as above.***

***Action: NERPC.***

**ADDITIONAL AGENDA ITEM FROM NERLDC:**

**D.28. Coal Shortage at BgTPP:**

Coal Shortage issue at BGTPP was discussed. NERLDC raised the issue that BGTPP must have a specific schedule of coal import. The forum suggested BGTPP to inform the unavailability of Units due to coal shortage at least 24 Hrs in advance. NTPC acquiesced.

***The Sub-Committee noted as above.***

***Action: NTPC.***

**D.29. Meeting Notice & Agenda:**

NERLDC requested that OCC Meeting Notice be intimated 10 days in advance and Agenda be issued 7 days in advance. SE(C&O) intimated that usually the schedule is followed, however sometimes due to delay in submission of agenda by different utilities Agenda is issued late. However the concerns have been duly noted.

***The Sub-Committee noted as above.***

***Action: NERPC.***

**Date & Venue of next OCC meeting**

It is proposed to hold the 138<sup>th</sup> OCC meeting of NERPC on second week of November, 2017. However, the exact date and venue will be intimated in due course.

The meeting ended with thanks to the Chair.

\*\*\*\*\*

**Annexure-I****List of Participants in the 138<sup>th</sup> OCC Meetings held on 24.11.2017**

SN	Name & Designation	Organization	Contact No.
	<b>No Representatives</b>	Ar. Pradesh	-
1.	Sh. Z.A. Choudhury, CGM (SLDC), AEGCL	Assam	09435371734
2.	Sh. Bikrammaditya Das, DGM, LDC	Assam	09859074773
3.	Sh. Dipesh Ch. Das, AGM (LDC)	Assam	09954110254
4.	Sh. R. Choudhury, DGM, APDCL	Assam	09435143426
5.	Smt. Toushita Jigdung, DM, SLDC	Assam	09707134351
6.	Sh. B. C. Borah, AGM (SLDC)	Assam	09435119248
7.	Smt. Jyoti Prasad Rabha, AM (Com), APDCL	Assam	08402981282
	<b>No Representatives</b>	<b>Manipur</b>	
8.	Sh. D.J. Lyngdoh, EE (SM), SLDC	Meghalaya	09863063375
9.	Sh. W. Khyriem, EE, GSPD, MePGCL	Meghalaya	09856007107
10.	Sh. T. Gidon, EE, SLDC	Meghalaya	09774479956
11.	Sh. B.Nikhla, EE, SP, MePTCL	Meghalaya	09436314163
12.	Sh. A.G. Tham, AEE, MRT	Meghalaya	09774664034
13.	Sh. R.Kharmawphlang, AE, SLDC	Meghalaya	-
14.	Sh. Kristine V.L. Sailo, AE, SLDC	Mizoram	08414881357
15.	Sh.Lalremruata Sailo, JE, SLDC	Mizoram	09612614372
	<b>No Representatives</b>	<b>Nagaland</b>	-
16.	Sh. Debabrata Pal, Sr. Manager (Comml.)	Tripura	09436500244
17.	Sh. Mrinal Paul, Mgr, TSECL	Tripura	09436137022
18.	Sh. Abhijit Kalita, Sr. Manager	NEEPCO	09435339831
19.	Sh. Tarh Naga, Dy.Manager (E/M)	NEEPCO	09862972448
20.	Sh. R. Sutradhar , DGM (MO)	NERLDC	09436302714
21.	Sh. Samar Ch.De, AGM	NERLDC	09436335369
22.	Sh. Sourav Mandal, Engineer	NERLDC	09402102354
23.	Smt. Chitra Bahadur Thapa, Engineer	NERLDC	08135989964
24.	Sh. H. Talukdar, Ch. Manager	PGCIL	09436335237
25.	Sh. Pinale Nandi, Sr. Engineer	PGCIL	09436335227
26.	Sh. N. Yugandhar, Manager (E&M)	NHPC	09800003819

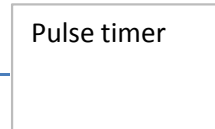
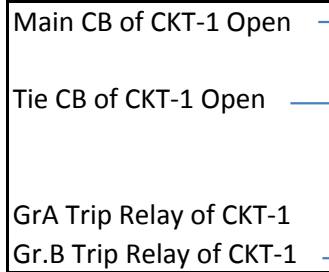
27.	Sh. Bibek Roy, DGM (O&M)	OTPC	-
28.	Sh. Shankha N.Pait, Manager (EEMG)	NTPC	09435720152
29.	Sh. B. Lyngkhoi, Director/S.E (C&O)	NERPC	09436163419
30.	Sh. S. Mukherjee, AEE	NERPC	08794277306
31.	Sh. A.Agrawal, AEE	NERPC	07424064484

## SPS-2

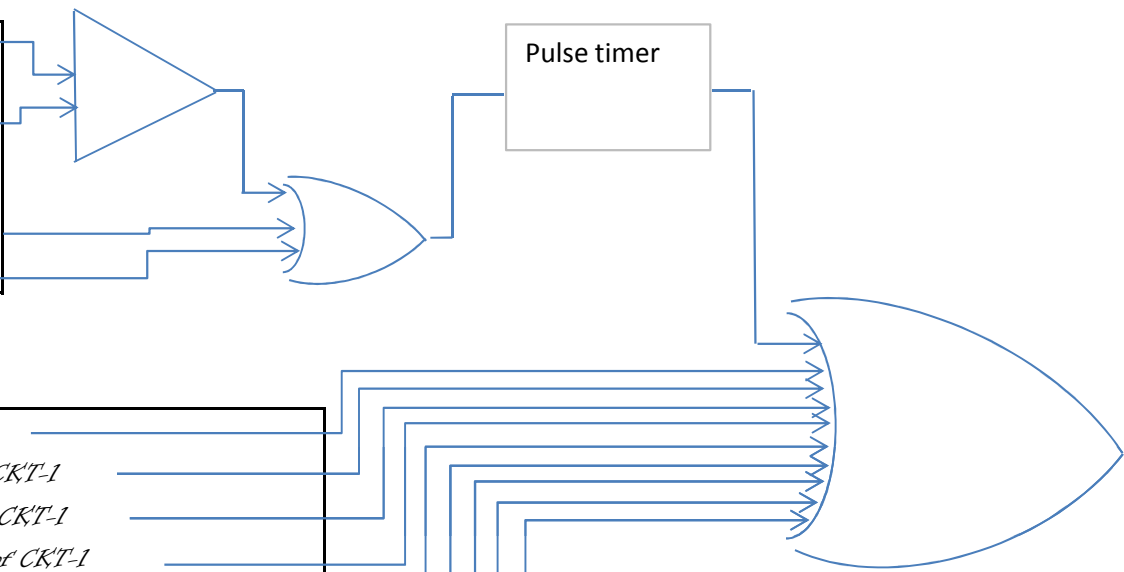
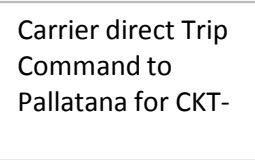
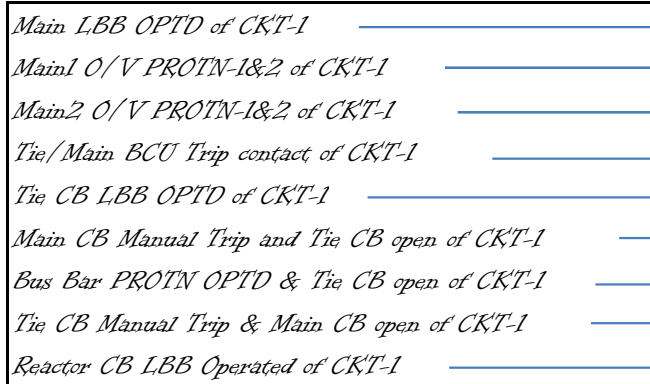
Station : Silchar

Line 400 kV Silchar-Pallatana-1

### New Logics



### Existing Logics

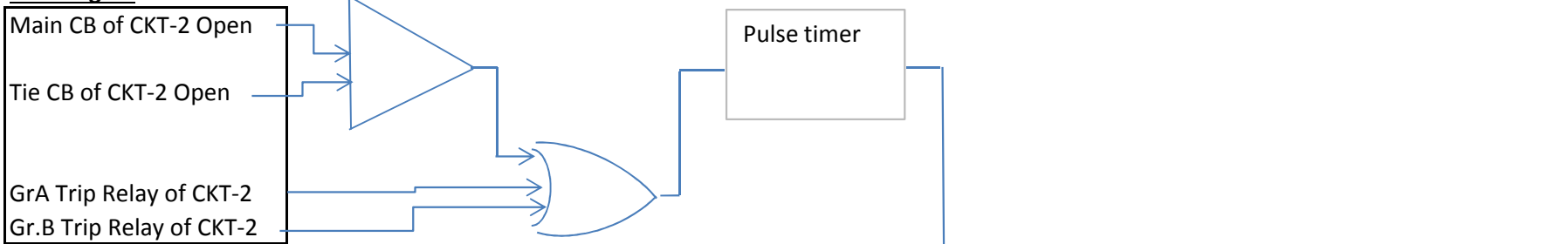


**SPS-2**

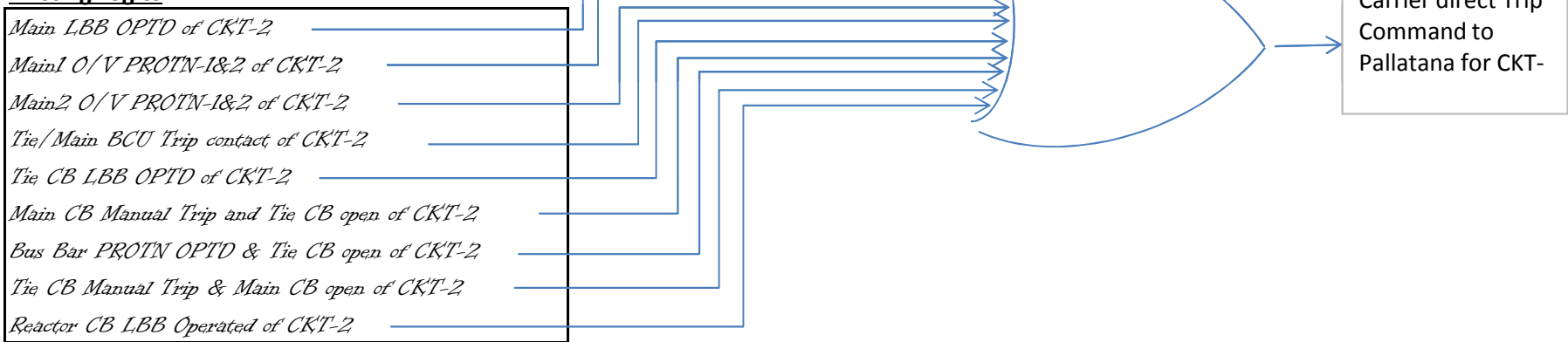
Station : Silchar

Line 400 kV Silchar-Pallatana-2

**New Logics**



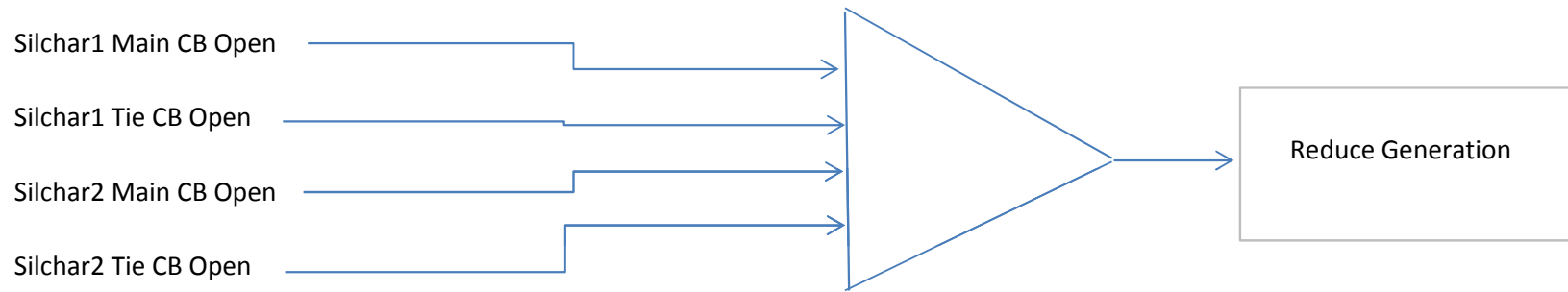
**Existing Logics**



**SPS-2**

Station : Pallatana

Line : 400 kV D/C Silchar-Pallatana



**ANALOG AND DIGITAL DATA STATUS OF POWERGRID/ISGS**

Sl. No.	RTU STATION	ANALOG DATA	DIGITAL DATA
1.	<b>BALIPARA</b>	Data of 400/220 kV ICT 2 is wrong. Data of 220 kV Balipara-Sonabil Line 1, OLTC taps of all ICTs suspect	F_R3_R (BONGA_PG LINE 2 REACTOR), F_R4_R( BONGA_PG LINE 1 REACTOR), F_R2_R( BNC_PG LINE 1 REACTOR) data SUSECT.
2.	<b>BONGAIGAON</b>	400kV Bonga-BTPS 1 and 2 MW suspect.	F_24(AZARA_AS line),F_10,F_18,F_20(BTPS-2),F_21, F_08, F_28, B_51,B_01_R,B_02_R,B_03_R AND B_04_R SUSPECT. <b>CB Status of lines turns to suspect as Line goes shutdowns.</b>
3.	<b>SALAKATI</b>	132 kV Gelephu Line data wrong, 220 kV Bus 1 data suspect.	E_L2 (ALIPU Line 2), D_08, D_04 SUSPECT
4.	<b>DIMAPUR</b>	132 kV Dimapur-Dimapur-1, 132/33 kV ICT-1 & 2 data suspect. 220 KV BUS 1 FREQUENCY and Voltage Wrong	All CB suspect.
5.	<b>IMPHAL</b>	20 MVAR REACTOR SUSPECT.	
6.	<b>ITANAGAR</b>	All data suspect.	All data suspect.
7.	<b>KOLASIB</b>	All data suspect.	All data suspect.
8.	<b>MISA</b>	MARIA_PG Line 1 & 2 Reactor data suspect.	F_04 (400/220 kV ICT 1), B_03_R (Tertiary Reactor 3), E_L3(Kopili-3), E_07(220 kv B/C), E_L4(Dimapur-1).
9.	<b>MARIANI</b>	20 MVAR Bus Reactor and 220 kV Bus 2 are suspect	
10.	<b>BNC (HVDC)</b>	Firing Angle of pole 1 & 2, 400/132 kV ICTs tap position, 400 kV Ranganadi- BNC Line I & II position swapped at BNC end. Converter Transformers Tap position Suspect, Reactor_F_R4_LR_SUBAN MVAR, SUBAN_NH 3(BNC to SUBAN Line3) MW&MVAR Data Suspect, 132 kV Transfer Bus Data Suspect.	F_01(ICT-1), F_02(Tie between ICT-1 & ICT-2), F_03(ICT-2), F_04, F_4R_R, F_05, F_06, F_R3_R, F_R2_R, F_R1_R, F_08, F_09,F_13, F_14, F_23, F_2W, F_1W, F_25,F_26, F_27, F_28, F_29, F_31, F_36, F_38, F_39, F_40, F_42, F_43, D_01, D_02, D_03, D_04
11.	<b>ROING</b>	ALL DATA SUSPECT (fluctuates frequently)	ALL DATA SUSPECT (fluctuates frequently)
12.	<b>TEZU</b>	ALL DATA SUSPECT (fluctuates frequently)	ALL DATA SUSPECT (fluctuates frequently)
13.	<b>SILCHAR</b>	400 KV Palatana line I & II Line flow do not show when are below 10MW, AZARA and Killing line reactors connection reversed, 400/132 kV ICTs Tap Position suspect,132kV Line-1 & 2 MELRI_PG Data Suspect	D_11, D_12(MELRI_PG Line 1 & 2)
14.	<b>KOPILI</b>	220/132 kV 160MVA ICT 1	E_05 (220/132 kV 60MVA ICT).
15.	<b>KATHALGURI</b>	ALL DATA SUSPECT	ALL DATA SUSPECT. Since 21/08/2017
16.	<b>RANGANADI</b>	All data suspect.	DATA IS NOT STABLE.
17.	<b>KOPILI EX NO</b>	33 KV bus voltage suspect, 132 kV Bus 2 Voltage suspect,132kV Bus 1 data suspect, 220 kV Bus 4 & 3 voltage data wrong, XFMR_S ED_T1 Data wrong,132kV Line 1 to KHAND_NO DATA SUSPECT.	

**1. Voice Communication problem:**

Dedicated voice communication links and its availability is one of the key requirements for efficient grid management. But it is observed that non availability of adequate communication links with many stations affecting grid operation seriously.

Most of the POWERGRID stations are connected through only one dedicated voice link.

Minimum two nos of dedicated links needs to be established at the earliest. Earlier (PUNWARE system) there were 2 nos of dedicated voice communication channels with every stations but in present VOIP system only one no of link is established.

The following VOIP phones are not working

1. Kohima (23640116),
2. Kathalguri(23640154)
3. Palatana(23640127)
4. Jiribam (23640130)
5. Kolasib (23640111).

Following SLDCs do not have ULDC phones:

1. SLDC Imphal
2. SLDC Aziwal
3. SLDC Itanagar

Concerned authorities are requested to please take suitable action at the earliest for establishing the links.

Generation Projection (Jan 2018 - Mar 2018)																	
				Generation declared Commercial from 1st Apr '17 to 30th Sep'17					Generation declared/expected to be declared Commercial from 1st Oct'17 to 31st Dec'17								
Sl. No.	Entities	Region	Projections based on 3 Years Data	Bus Name	Unit No.	Installed Capacity	Gen. considered	Sub Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Sub Total	TOTAL	Comments From DICs /Others (if any)	Figure as per Comments/PoC Data	Projected Generation before normalization w.r.t projected All India Peak Demand
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)			(MW)
108	AGTPP, NEEPCO	NER	129											129	As per data given by NEEPCO	132	132
109	Doyang, NEEPCO	NER	52											52		63	63
110	Kopili, NEEPCO	NER	161											161		0	0
	Kopili 2, NEEPCO	NER	23											23		21	21
111	Khandong, NEEPCO	NER	41											41		43	43
112	Ranganadi, NEEPCO	NER	402											402		401	401
113	AGBPP_Kathalguri	NER	234											234		220	220
115	Loktak, NHPC	NER	105											105	As per NHPC	105	105
116	Palatana GBPP	NER	674											674	As per OTPC	547	547
117	Bongaigaon_NTPC	NER	239						Bongaigaon_NTPC	2	250	165	165	404	As per NTPC	460	460
118	Arunachal Pradesh	NER	0											0			0
119	Assam	NER	306											306		231	231
120	Manipur	NER	0											0			0
121	Meghalaya	NER	130											130		321	321
122	Nagaland	NER	15											15		16	16
123	Tripura	NER	84											84		73	73
124	Mizoram	NER	6											6	As per data given by Mizoram	8	8
	<b>TOTAL</b>		<b>2601</b>					<b>0</b>					<b>165</b>	<b>2766</b>			<b>2641</b>

**Note:**

- Projections are based on monthly maximum injection in the last 3 years from actual metered data.
- Generation forecast has been done based on the following criteria
  - If there is an increasing trend then last year average generation has been considered
  - Otherwise average of past three year average generation has been considered
- In case of new generators where past data was not available following has been assumed
  - 0.80 plf for hydro generators
  - 0.7 plf for thermal generators.
  - 0.3 plf for gas stations

DEMAND FORECAST USING PAST 3 YEARS DATA (Jan 2018 - Mar 2018)														Data given by DICs	Comments
	2014-15			2015-16			2016-17			1	2	3	4		
	Jan-15	Feb-15	Mar-15	Jan-16	Feb-16	Mar-16	Jan-17	Feb-17	Mar-17	2014-15 Average	2015-16 Average	2016-17 Average	Projected Demand for (Jan 2018 - Mar 2018) before		
Arunachal Pradesh	115	115	107	117	135	113	120	135	138	112	122	131	140	130	As per Arunachal Pradesh
Assam	1,220	1,215	1,215	1,330	1,327	1,316	1,464	1,396	1,391	1,217	1,324	1,417	1,520	1550	As per Assam
Manipur	144	136	146	166	158	155	163	162	158	142	160	161	173	171	As per Manipur
Meghalaya	343	316	343	377	322	315	331	300	298	334	338	310	303	310	As per Meghalaya
Mizoram	88	88	81	101	99	84	98	93	94	86	95	95	101	93	As per data given by Mizoram
Nagaland	123	120	128	122	118	114	121	147	122	124	118	130	130	123	As per Nagaland
Tripura	210	212	233	219	227	248	223	223	228	218	231	225	231	300	As per Tripura
<b>N. Eastern Region</b>	<b>2,202</b>	<b>2,155</b>	<b>2,131</b>	<b>2,332</b>	<b>2,328</b>	<b>2,367</b>	<b>2,320</b>	<b>2,234</b>	<b>2,200</b>						
<b>All India Peak Met</b>	<b>1,35,348</b>	<b>1,35,201</b>	<b>1,37,678</b>	<b>1,43,401</b>	<b>1,42,994</b>	<b>1,44,766</b>	<b>1,47,094</b>	<b>1,49,322</b>	<b>1,54,148</b>	<b>1,36,076</b>	<b>1,43,720</b>	<b>1,50,188</b>	<b>1,57,440</b>		

**Notes**

1. Projections are based on the past 3 years' monthly Peak Demand Met data available on the website of CEA
2. The above projections are being done for financial year 2017-2018 (Q4) i.e. January 2018 to March 2018
3. Projections are being done based on the forecast function available in MS Office Excel
4. CEA Reports can be accessed from the following links:  
[http://www.cea.nic.in/reports/monthly/powersupply/2017/osp\\_peak-03.pdf](http://www.cea.nic.in/reports/monthly/powersupply/2017/osp_peak-03.pdf)  
[http://www.cea.nic.in/reports/monthly/powersupply/2017/osp\\_peak-02.pdf](http://www.cea.nic.in/reports/monthly/powersupply/2017/osp_peak-02.pdf)  
[http://www.cea.nic.in/reports/monthly/powersupply/2017/osp\\_peak-01.pdf](http://www.cea.nic.in/reports/monthly/powersupply/2017/osp_peak-01.pdf)  
[http://www.cea.nic.in/reports/monthly/powersupply/2016/osp\\_peak-01.pdf](http://www.cea.nic.in/reports/monthly/powersupply/2016/osp_peak-01.pdf)  
[http://www.cea.nic.in/reports/monthly/powersupply/2016/osp\\_peak-02.pdf](http://www.cea.nic.in/reports/monthly/powersupply/2016/osp_peak-02.pdf)  
[http://www.cea.nic.in/reports/monthly/powersupply/2016/osp\\_peak-03.pdf](http://www.cea.nic.in/reports/monthly/powersupply/2016/osp_peak-03.pdf)  
[http://www.cea.nic.in/reports/monthly/powersupply/2015/osp\\_peak-03.pdf](http://www.cea.nic.in/reports/monthly/powersupply/2015/osp_peak-03.pdf)  
[http://www.cea.nic.in/reports/monthly/powersupply/2015/osp\\_peak-02.pdf](http://www.cea.nic.in/reports/monthly/powersupply/2015/osp_peak-02.pdf)  
[http://www.cea.nic.in/reports/monthly/powersupply/2015/osp\\_peak-01.pdf](http://www.cea.nic.in/reports/monthly/powersupply/2015/osp_peak-01.pdf)



# NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड

(A Govt. of India Enterprise)

(भारत सरकार का संस्थान)

Office of the Head of Project, AGBP, NEEPCO, Bokuloni

कार्यालय, संयंत्र प्रमुख, एजिबिपि, नीपको, बकुलनि



NEEPCO/AGBP/HOP/T-9(A)/2017-18/ 328

14.11.17

## Inter Office Memo

अंतरिम कार्यालय जापन

From: HOP, AGBP

To: The Executive Director (O&M)  
NEEPCO Ltd., Shillong

Sub: AGCL request for temporary shutdown of Gas supply to NEEPCO for carrying out Gas Pipe line maintenance.

- Ref: 1. AGCL letter ref: GP/PL/01/2015/Pt-III/132 dtd 27.10.2017  
2. Our letter ref: NEEPCO/AGBP/HOP/T-9/2017-18/297 dtd 30.10.2017  
3. AGCL letter ref: INST-AGCL/NEEPCO/95/VI/ON dtd 14.11.2017

M/s AGCL has planned to carry out Gas Pigging and cleaning works of 7.2 km Kathalguri OCS to NEEPCO gas pipe line along few other maintenance works as per guidelines of PNGRB (Petroleum and Natural Gas Regulatory Board) in 1<sup>st</sup> week of December, 2017 with total shut down of gas supply to NEEPCO for a period of 10 days and intimated us accordingly vide their letter under ref sl 1 (copy enclosed).

We however strongly expressed our disapproval on the proposed initiatives taken by AGCL in such a short notice and issued a letter requesting them to defer the program till August/September, 2018 (high hydro season) giving sufficient notice period to us enabling us to do necessary planning from our side as well.

On reply, M/s AGCL vide their letter under ref sl no. 3 has informed us that the subject maintenance will be difficult to carryout in the month of Aug-Sept due to high underground water table and proposed to execute the works during **15<sup>th</sup> Feb to 25<sup>th</sup> Feb, 2018.**

As there will be no generation from AGBP during the shutdown period of 10 days, we shall have to take prior approval from the OCC.

Submitted for kind perusal and further instruction please.

Encl. as above

(H. K. Changmai)

(हरि कृष्ण चांमाई)

HOP, AGBP, NEEPCO  
संयंत्र प्रमुख, एजिबिपि, नीपको

P. O. DULIAJAN  
DIST. DIBRUGARH  
ASSAM, 786 602  
TEL : (0374) 2800202, 2800221, 2800582  
(0374) 2800556, 2800558  
FAX : (0374) 2800557  
e-mail : info@assamgas.org  
Visit us : www.assamgas.org



CIN OF AGCL : U11101AS1962SGC001184

No: INST-AGCL/NEEPCO/95/VI/0N

Date: 14/11/2017

To,  
The General Manager & HoP  
NEEPCO  
P.O. Bokuloni  
Dist: Dibrugarh

Email ID: [h\\_changmai@rediffmail.com](mailto:h_changmai@rediffmail.com)

Sub: Temporary suspension of gas supply to NEEPCO

Ref: (i) Our earlier letter no. GP/PL/01/2015/Pt.III/132 dtd. 27/10/2017

(ii) Your reply letter no. NEEPCO/AGBP/HOP/T-9/2017-18/297 dtd. 30/10/2017

Dear Sir,

Inviting reference to your above letter, we would like to inform you that Gas Pigging and Cleaning of trunk pipeline is required for health check-up of the pipeline and needs to be carried out at regular interval. Accordingly, we planned to take up the work in 1<sup>st</sup> week of December 2017. This activity will lead to suspension of gas to your Power Generation Plant for 10 ( ten) days period which we had intimated to you vide our earlier letter.

We understand that you need to take permission from different statutory bodies before taking a decision for complete shutdown of your plant. As stated in your letter, it will be difficult on our part to carry the work in August-September 2017 due to high underground water table. Considering this aspect, we have re-examined the case and found that 15<sup>th</sup> February '18 to 25<sup>th</sup> February '18 will be most convenient time for us . Therefore, we request you to allow us to work during this period. We assure you that all possible steps will be taken up by us to minimise this time period.

We hope, by this time, you will be in a position to get all necessary approval and allow us to take up the requisite work.

Thanking you,

Yours faithfully,

( S.Tamuli)

DGM( Technical Services)  
For MANAGING DIRECTOR

**NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED**

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड

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**Office of the Head of Project, AGBP, NEEPCO, Bokuloni**

कार्यालय, संयंत्र प्रमुख, एजिबिपि, नीपको, बकुलनि



No. NEEPCO/AGBP/HOP/T-9/2017-18/ 297

Dated 30/10/2017

To,  
The Managing Director  
Assam Gas Company Ltd.  
P.O. Duliajan, Assam - 786 602

Sub: AGCL request for temporary shutdown of Gas supply to NEEPCO  
Ref: 1. Your letter ref: GP/PL/01/2015/Pt-III/132 dtd 27.10.2017  
2. Your e mail dtd 28.10.2017

Sir,

We hereby would like to express our serious concern to receive a sudden request for shut down of gas supply to NEEPCO for a period of 10 (ten) days in the 1st week of December, 2017 to carry out Gas Piggging and cleaning work of Gas pipe line from Kathalguri OCS to NEEPCO vide your letter under reference sl 1. We are shocked over the fact that without any prior intimation or any discussion, AGCL has issued a letter on 27.10.2017 (received by us on 28.10.2017) informing us about taking this decision which has a far reaching effect on the whole North Eastern Region and subsequently on that very date issued an e-mail intimating us about finalizing the program unilaterally with issuance of necessary instruction to the concerned contractor.

We have always been under an impression that AGCL being associated with NEEPCO for last almost 25 years understands the consequences of complete shutdown of a 291 MW Power Plant for a period of 10 (ten) days in such a short notice. AGBP being base load power station with round the clock power generation of 210 MW is the back bone of a stable Power system in the North Eastern Region.

It would therefore be prudent on our part to make you aware of the fact that NEEPCO does not have the authority to go for complete shutdown of its plant for such a long period of its own. There is a Regulatory Committee i.e. NERPC (North Eastern Regional Power Committee) formed under the aegis of Govt. of India with representatives from all the stake holders (all seven NE States) chaired by Power Minister of any one North Eastern State empowered to take such decision.

The proposal for such shutdown must be forwarded to the above committee by the respective Power Plant for detailed deliberation and necessary approval. Further, generation of power is being considered as one of the emergency services for the society. For approval of such shutdown, thoughtful planning for managing the shortfall of power in the region is required involving all the stake holders. From the past experiences, it is seen that generally no thermal power station is allowed to go for any planned shut down during lean hydro period (Oct-Nov to March-April), in the interest of the people of the North Eastern Region, as generations from all hydro stations are much less due to shortage of water. However, there may be deviations only in case of extreme emergency supported by facts and figures.

Under the above circumstances, you are requested to kindly review your decision for taking shutdown in the month of December and plan sometime in the month of August - September, 2018 for convenience of all stakeholders and in the interest of the people of the North Eastern Region.

Thanking you,

Yours faithfully,

H. K. Changmai

(हरि कृष्ण चामाई)

HOP, AGBP, NEEPCO

Copy forwarded for kind information to:  
The DGM(E/M), AGBP

31/10/17  
Sr. MLE(M)  
HOP

NO. NEEPCO/HOP/T-9/1479  
DATED 31/10/2017

P. O. DULIAJAN  
DIST. DIBRUGARH  
ASSAM, 786 602  
TEL : (0374) 2800202, 2800221, 2800582  
(0374) 2800556, 2800558  
FAX : (0374) 2800557  
e-mail : info@assamgas.org  
Visit us : www.assamgas.org



CIN OF AGCL : U11101AS1962SGC001184

No. :- GP/PL/01/2015/Pt.-III/132

Date: 27/10/2017

✓ To  
The Head of Project  
NEEPCO  
P.O. Bokuloni  
Bhadoi Pachali

*Please prepare draft reply*  
*[Signature]*  
*28/10/17*

e-mail :- [h\\_changmai@rediffmail.com](mailto:h_changmai@rediffmail.com)

Sub.:- Temporary shutdown of gas supply to NEEPCO

Dear Sir,

As per the guidelines of PNGRB (Petroleum and Natural Gas Regulatory Board), AGCL is planning to carry out Gas Pigging and cleaning work of the Kathalguri OCS to NEEPCO, 550 /500 mm NB x 7.20 km gas pipeline along with few other maintenance works.

We have estimated that total 10 (ten) working days will be required to complete the work and during this period gas supply to NEEPCO will remain suspended. However, we will put our best effort to minimize the shutdown period of the pipeline.

Accordingly, we are planning to takeup the job in the 1<sup>st</sup> week of December 2017.

We hope you will bear with us considering the safety of the pipeline and enable us to comply with PNGRB Guidelines.

Thanking you.

Yours faithfully,

(S. Tamuli)  
DGM (TS)

For Managing Director

Copy to:- 1. CGM (GMS) Oil India Ltd., Duliajan

Sl. No.	Substation	Voltage Ratio (kV)	Transformer No.	Capacity in MVA	Controlled Bus	Tap Step (%)	Total Tap Positions	Nominal Tap	Present Tap	Voltage Profile				Optimised Tap Changer Position
										Off-Peak			Peak	
										Nominal Taps	Present Tap setting	After Optimisation	After Optimisation	
1	Balipara	400/220	1	315	400kV	1.25	17	9	9	423	421	416	411	NO (9)
		400/220	2	315	400kV	1.25	17	9	9					NO (9)
		220/132	1	50	132kV	1.25	17	9	9	143	142	141	139	NO (9)
		220/132	2	100	132kV	1.25	17	9	9					NO (9)
2	Bongaigaon	400/220	1	315	400kV	1.25	17	9	12	426	425	417	409	NO-5 (4)
3	Salakati	220/132	1	50	132 kV	1.25	17	9	13	144	135	135	134	NO + 6 (15)
		220/132	2	50	132 kV	1.25	17	9	16					NO + 6 (15)
4	Misa	400/220	1	315	400kV	1.25	17	9	5	426	421	415	411	NO + 6 (15)
		400/220	2	315	400kV	1.25	17	9	5					NO + 6 (15)
5	Ranganadi HEP	400/132	1	360	400 kV	2.5	17	9	9	420	416	408	413	NO - 3 (6)
		400/132	2	360	400 kV	2.5	17	9	9					NO - 3 (6)
6	Azara	400/220	1	315	400kV	1.25	17	9	8	427	425	410	410	NO + 1 (10)
		400/220	2	315	400kV	1.25	17	9	8					NO + 1 (10)
7	Biswanath Chariali (PG)	400/132	1	200	400 kV	1.25	17	9	8	423	420	414	412	NO (9)
		400/132	2	200	400 kV	1.25	17	9	8					NO (9)
8	Silchar	400/132	1	200	400 kV	1.25	17	9	9	422	421	412	411	NO - 3 (6)
		400/132	2	200	400 kV	1.25	17	9	9					NO - 3 (6)
9	Byrnihat	400/220	1	315	400 kV	1.25	17	9	9	435	437	422	415	NO - 6 (3)
		400/220	2	315	400 kV	1.25	17	9	9					NO - 6 (3)
		220/132	5083/1	160	132 kV	1.25	17	9	9	148	149	145	141	NO + 4 (13)
		220/133	5083/1	160	132 kV	1.25	17	9	9					NO + 4 (13)
10	Palatana	400/132	1	125	400 kV	1.25	17	9	9	420	420	410	410	NO - 3 (6)
		400/132	2	125	400 kV	1.25	17	9	9					NO - 3 (6)
11	BgTPP	400/220	2	125	220 kV	1.25	17	9	9	426	425	417	409	NO - 5 (4)

Note : a) NO indicates Nominal Tap position, b) NO-1 when HV bus is controlled bus, indicates transferring MVAR from HV bus to LV bus to reduce voltage of the HV bus and increase voltage of LV bus

**Details of Special Energy Meters at inlet points of NER States**

Main Meters

Loc. ID	Meter (Make)	Meter No.	CTR	PTR	Place of installation of SEM	Mobile/ Telephone connectivity
<b>AR. PRADESH INLET POINTS</b>						
RN-01	LnT	NP-5792-A	500	1200	RANGANADI END OF 132kV NIRJULI FEEDER	YES
AR-04	LnT	NP-5306-A	300	1200	NIRJULI END OF 132kV GOHPUR FDR	YES
RN-11	LnT	NP-5278-A	500	1200	RANGANADI END OF 132kV ZIRO FDR	YES
KT-14	LnT	NP-6885-A	400	2000	KATHALGURI END OF 132kV DEOMALI FDR	YES
AS-55	LnT	NP-5306-A	300	1200	BALIPARA END OF 132kV KHUPI-KIMI FDR	YES
RN-12	LnT	NP-7664-A	100	300	RHEP END OF 33kV PARE FDR	YES
<b>ASSAM INLET POINTS</b>						
AS-03	LnT	NP-6888-A	800	2000	MARIANI END OF 220kV KATHALGURI FDR	YES
AS-04	LnT	NP-6886-A	800	2000	MARIANI END OF 220kV MISA FDR	YES
AR-04	LnT	NP-5306-A	300	1200	NIRJULI END OF 132kV GOHPUR FDR	YES
AS-06	LnT	NP-7595-A	400	1200	PANCHGRAM END OF 132kV LUMSHNONG FDR	YES
ME-03	LnT	NP-8474-A	400	1200	UMTRU END OF 132kV KAHALIPARA FDR- 1	YES
ME-04	LnT	NP-8475-A	400	1200	UMTRU END OF 132kV KAHALIPARA FDR- 2	YES
ME-05	LnT	NP-8491-A	400	1200	UMTRU END OF 132kV SARUSAJAI FDR- 2	YES
ME-07	LnT	NP-8473-A	400	1200	UMTRU END OF 132kV SARUSAJAI FDR- 1	YES
AS-07	LnT	NP-6872-A	600	1200	PANCHGRAM(ASEB) END OF 132kV BDP (PG) FDR	YES
AS-08	LnT	NP-6946-A	400	1200	D'CHERRA END OF 132kV D'NGAR FDR	YES
AS-11	LnT	NP-8494-A	50	1200	HAFLONG CONSUMPTION	YES
AS-38	LnT	NP-8634-A	500	2000	MISA END OF 220kV SAMAGURI FDR-1	YES
AS-39	LnT	NP-8637-A	500	2000	MISA END OF 220kV SAMAGURI FDR-2	YES
AS-30	LnT	NP-5314-A	800	2000	SALAKATI END OF 220kV BTPS FDR- 1	YES
AS-31	LnT	NP-5297-A	800	2000	SALAKATI END OF 220kV BTPS FDR- 2	YES
AS-42	LnT	NP-5307-A	800	2000	BALIPARA END OF SONABIL FDR -1	YES
AS-47	LnT	NP-6893-B	40	300	MARIANI END OF 33kV CHANKI FDR	YES
AS-57	LnT	NP-6150-A	400	1200	BALIPARA END OF 132kV GOPHUR FDR	YES
AS-73	LnT	NP-8368-A	300	1200	RANGIA END OF MOTONGA(DEOTHANG) FDR	YES
AS-75	ELSTER	NP-8664-A	500	1200	SILCHAR END OF 132kV SRIKONA FDR -1	YES
AS-76	ELSTER	NP-8665-A	500	1200	SILCHAR END OF 132kV SRIKONA FDR -2	YES
AS-81	ELSTER	NP-8666-A	500	1200	SILCHAR END OF 132kV HAILAKANDI-1 FDR	YES
AS-82	ELSTER	NP-8667-A	500	1200	SILCHAR END OF 132kV HAILAKANDI-2 FDR	YES
AS-86	LnT	NP-8484-A	400	1200	AGIA END OF 132kV MENDIPATHAR FDR	YES
AS-93	ELSTER	NP-8588-A	1000	3636.36	AZARA END OF 400kV SILCHAR FDR	YES
KT-15	LnT	NP-9650-A	800	2000	KATHALGURI END OF 220kV TINSUKIA FDR -1	YES
KT-16	LnT	NP-9443-A	800	2000	KATHALGURI END OF 220kV TINSUKIA FDR -2	YES
MN-06	LnT	NP-8499-A	400	1200	JIRIBAM END OF PAILAPOOL FDR	YES
NG-08	LnT	NP-5287-A	300	1200	DIMAPUR END OF 132kV BOKAJAN FDR	YES
AM-01	ELSTER	NP-8658-A	1000	3636.36	AZARA END OF 400kV BONGAIGAON FDR	YES
KK-01	LnT	NP-5780-A	300	1200	KHANDONG END OF 132kV UMRANGSOO FDR	NO
AS-69	LnT	NP-8502-A	400	1200	HAFLONG END OF 132kV KHANDONG FDR	YES
AM-10	ELSTER	NP-4500-A	300	1200	BNC END OF 132 KV PAVOL-1	YES
AM-11	ELSTER	NP-4502-A	300	1200	BNC END OF 132 KV PAVOL-2	YES
NT-14	LnT	NP-5281-A	1600	2000	NTPC ICT-2 LV SIDE	YES

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*Rec'd Documents*  
*Debasish Deb.*  
*16-11-2017*  
*C-DAC Silchar*

### Details of Special Energy Meters at inlet points of NER States

MANIPUR INLET POINTS						
LO-04	LnT	NP-9045-A	400	1200	LOKTAK END OF NINGTHOUKHONG FDR	YES
MN-03	LnT	NP-6949-A	400	1200	KARONG END OF 132kV KOHIMA FDR	NO
MN-04	LnT	NP-8501-A	50	1200	JIRIBAM 132/33kV TRF ( MANIPUR CONSUMPTION )	YES
MN-05	LnT	NP-8378-A	600	1200	IMPHAL(PG) END OF 132kV OF YUREMBAM -I FDR	YES
MN-06	LnT	NP-8499-A	400	1200	JIRIBAM END OF PAILAPOOL FDR	YES
MN-10	LnT	NP-9581-A	300	1200	IMPHAL(PG) END OF 132kV NINGTHOUKONG(MN) FDR	YES
LO-01	LnT	NP-9065-A	400	1200	LOKTAK END OF RENGPANG FDR	YES
MN-12	LnT	NP-8500-A	300	1200	JIRIBAM(PG) END OF 132kV OF JIRIBAM(MN) FDR	YES
MN-13	LnT	NP-9520-A	300	1200	IMPHAL(PG) END ICT- 1	YES
MN-14	LnT	NP-9522-A	300	1200	IMPHAL(PG) END ICT- 2	YES
MN-16	LnT	NP-8670-A	300	1200	IMPHAL(PG) END OF 132kV OF YUREMBAM -II FDR	YES
MEGHALAYA INLET POINTS						
AS-06	LnT	NP-7595-A	400	1200	PANCHGRAM END OF 132kV LUMSHNONG FDR	YES
ME-03	LnT	NP-8474-A	400	1200	UMTRU END OF 132kV KAHHELIPARA FDR- 1	YES
ME-04	LnT	NP-8475-A	400	1200	UMTRU END OF 132kV KAHHELIPARA FDR- 2	YES
ME-05	LnT	NP-8491-A	400	1200	UMTRU END OF 132kV SARUSAJAI FDR- 2	YES
ME-06	LnT	NP-6881-A	300	1200	KHLRT (PG) END OF 132kV KHLRT(MeSEB) FDR- 1	YES
ME-07	LnT	NP-8473-A	400	1200	UMTRU END OF 132kV SARUSAJAI FDR- 1	YES
ME-09	LnT	NP-6880-A	600	1200	KHLRT (PG) END OF 132kV KHLRT(MeSEB) FDR-2	YES
AS-70	LnT	NP-9092-A	800	2000	MISA(PG) END OF 220kV BYRNIHAT(KILLING) FDR- 1	YES
AS-72	LnT	NP-9091-A	800	2000	MISA(PG) END OF 220kV BYRNIHAT(KILLING) FDR- 2	YES
ME-14	LnT	NP-8370-A	1000	3636.36	BYRNIHAT(KILLING) END OF 400kV B'GAON FDR	YES
AS-86	LnT	NP-8484-A	400	1200	AGIA END OF 132kV MENDIPATHAR FDR	YES
MIZORAM INLET POINTS						
MZ-01	LnT	NP-8485-A	300	1200	AIZAWL(PG) END OF 132kV LUANGMUAL FDR	YES
MZ-11	LnT	NP-8497-A	300	1200	KOLASIB END OF 132kV BADARPUR(PG) FDR	YES
MZ-12	LnT	NP-8496-A	600	1200	KOLASIB END OF 132kV AIZAWL(PG) FDR	YES
MZ-14	LnT	NP-8504-A	300	1200	MELRIAT(PG) END OF 132kV ZUANGTUI FDR	YES
MZ-15	LnT	NP-9565-A	600	1200	MELRIAT(PG) END OF SHIMUI I FDR	YES
MZ-16	LnT	NP-9497-A	600	1200	MELRIAT(PG) END OF SHIMUI II FDR	YES
NAGALAND INLET POINTS						
NG-01	LnT	NP-9451-A	300	1200	DIMAPUR (PG) END OF 132kV DIMAPUR (S) FDR -1	YES
MN-03	LnT	NP-6949-A	400	1200	KARONG END OF 132kV KOHIMA FDR	NO
DY-03	LnT	NP-8799-A	300	1200	DHEP END OF 132kV SAMIS FDR	NO
DY-04	LnT	NP-9053-A	300	1200	DHEP END OF 132kV MOKOKCHUNG FDR	NO
NG-16	LnT	NP-8472-A	600	1200	DIMAPUR(PG) END OF 132kV KOHIMA(S) FDR	YES
NG-17	LnT	NP-9649A	600	1200	DIMAPUR (PG) END OF 132kV DIMAPUR(S) FDR -2	YES
NG-20	ELSTER	NP-4517-A	300	1200	MOKOK(S) END OF MOKOK-MOKOK-1	YES
NG-21	ELSTER	NP-4511-A	300	1200	MOKOK(S) END OF MOKOK-MOKOK-2	YES
AS-47	LnT	NP-6893-B	40	300	MARIANI END OF 33kV CHANKI FDR	YES
TRIPURA INLET POINTS						
AG-01	LnT	NP-9081-A	600	1200	AGTPP END OF 132kV AGARTALA FDR- 1	YES
AG-02	LnT	NP-9093-A	600	1200	AGTPP END OF 132kV AGARTALA FDR- 2	YES
TR-04	LnT	NP-6860-A	600	1200	KUMARGHAT(PG) END OF 132kV P.K.BARI FDR	YES
AS-08	LnT	NP-6946-A	400	1200	D' CHERRA END OF 132kV D'NGAR FDR	YES
PL-03	LnT	NP-7603-A	800	1200	PALATANA END OF 132kV OF UDAIPUR LINE 1	YES
PL-04	LnT	NP-8381-A	1600	1200	PALATANA END OF 400kV OF SM NAGAR	YES
ZZ-24	ELSTER	NP-8569-A	500	1200	SILCHAR END OF 132 KV PK'BARI -1	YES
ZZ-25	ELSTER	NP-8563-A	500	1200	SILCHAR END OF 132 KV PK'BARI -2	YES

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NEW ELEMENTS		
STATE	LOCATION	Place of installation of SEM
AR. PRADESH	BNC(PG)	BNC END OF ITANAGAR FDR
AR. PRADESH	BNC(PG)	BNC END OF GOHPUR FDR
AR. PRADESH	ITANAGAR(S)	ITANAGAR END OF GOHPUR FDR
AR. PRADESH	ITANAGAR(S)	ITANAGAR END OF RANGANADI
AR. PRADESH	RHEP(NEPCO)	RANGANADI END OF PARE FDR
AR. PRADESH	PARE(NEPCO)	PARE END OF ITANAGAR FDR
AR. PRADESH	PARE(NEPCO)	PARE END OF NIRJULI FDR
AR. PRADESH	PARE(NEPCO)	PARE END OF NORTH LAKHIMPUR FDR
ASSAM	SONAPUR(S)	SONAPUR END OF BYRNIHAT FDR
ASSAM	SONAPUR(S)	SONAPUR END OF SILCHAR FDR
ASSAM	MARIANI(PG)	MARIANI (PG) END OF MARIANI (AS) I FDR
ASSAM	MARIANI(PG)	MARIANI (PG) END OF MARIANI (AS) II FDR
ASSAM	MARIANI(PG)	MARIANI(PG) END OF KHUMTAI I FDR
ASSAM	MARIANI(PG)	MARIANI(PG) END OF KHUMTAI II FDR
ASSAM	MISA(PG)	MISA END OF SANKARDEVNAGAR I FDR
ASSAM	MISA(PG)	MISA END OF SANKARDEVNAGAR II FDR
ASSAM	NTPC	NTPC ICT 2 (LV) SIDE
MANNIPUR	THOUBAL(S)	THOUBAL END OF SILCHAR FDR
MANNIPUR	THOUBAL(S)	THOUBAL END OF IMPHAL FDR
MANNIPUR	LOKTAK(NHPC)	LOKTAK END OF NINGTHOUKONG FDR II
MANNIPUR	LOKTAK(NHPC)	LOKTAK END OF RENGPANG FDR II
TRIPURA	PKBARI(TBCB)	PKBARI (TBCB) END OF PKBARI (TSECL) I FDR
TRIPURA	PKBARI(TBCB)	PKBARI (TBCB) END OF PKBARI (TSECL) II FDR
TRIPURA	AGTCCPP (NEEPCO)	AGTCCPP END OF PKBARI (TSECL) I FDR
TRIPURA	AGTCCPP (NEEPCO)	AGTCCPP END OF PKBARI (TSECL) II FDR
TRIPURA	PALATANA(OTPC)	PALATANA END OF SURAJMANINAGAR II FDR
TRIPURA	SURAJMANINAGAR (TBCB)	SURAJMANINAGAR (TBCB) END OF SURAJMANINAGAR (TSECL) I FDR
TRIPURA	SURAJMANINAGAR (TBCB)	SURAJMANINAGAR (TBCB) END OF SURAJMANINAGAR (TSECL) II FDR
MANNIPUR	IMPHAL (PG)	IMPHAL(PG) END OF YUREMBAM III FDR
MANNIPUR	IMPHAL (PG)	IMPHAL(PG) END OF YUREMBAM IV FDR
ASSAM	RANGIA (TBCB)	RANGIA (TBCB) END OF RANGIA (AS) I FDR
ASSAM	RANGIA (TBCB)	RANGIA (TBCB) END OF RANGIA (AS) II FDR
ASSAM	RANGIA (TBCB)	RANGIA (TBCB) END OF AMINGAON (AS) I FDR
ASSAM	RANGIA (TBCB)	RANGIA (TBCB) END OF AMINGAON (AS) II FDR
NAGALAND	NEW KOHIMA (TBCB)	NEW KOHIMA (TBCB) END KOHIMA (NG) I FDR
NAGALAND	NEW KOHIMA (TBCB)	NEW KOHIMA (TBCB) END KOHIMA (NG) II FDR

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## NOTE:

1. All meters have RS-485 ports.
2. Propriety protocol to be shared by Meter manufacturer after signing of tripartite agreement & NDA.
3. Meter supports 15 minute time block data.
4. Actual drawal of each State to be computed by sum of all Meter readings.
5. Schedule file is available in excel format. To be migrated to Oracle database in next 6 months time.

TOTAL

112

*Debanish Deb.*  
e-DAC silchar  
8486129510.

## I. Options for Intra-Day / Hour Ahead transactions:

Seven options have been proposed for Hour Ahead Transactions.

### **Option-1: Banking**

- Pros: Voluntary; No price transaction; Easy to implement
- Cons: Still bilateral; Opaque to cheaper options; True marginal cost of meeting demand not known; Elements of Cost and Value missing; No knowledge of gain or loss

### **Option-2: Day Ahead Market Price on Power Exchange as reference**

- Pros: Well accepted reference price; Dispute free
- Cons: Very remote chance of availability of generation sources with marginal cost equal to or less than Day Ahead Market(DAM) price; Liquidity will always be an issue

### **Option-3: Pool, based on variable cost as approved by the Regulator and on payment of cost**

- Pros: Visibility of all options for purchase decision; Dispute free as regulator approved Variable Cost (VC); All resources get paid as per their cost or marginal cost; Improvement over option 2, liquidity
- Cons: Still based on cost and not on value; VC difficult to ascertain; Merchant plants cannot participate as their tariffs are not determined by regulator

### **Option-4: Pool, based on variable cost as approved by the Regulator and on payment of marginal cost**

- Pros: Same as Option 3; Improvement over Option 3 – element of 'value' introduced because of marginal cost based payment
- Cons: VC difficult to ascertain; Merchant plants cannot participate as their tariffs are not determined by regulator; Payment based on marginal cost may lead to heart burn; still administered

### **Option-5: Pool, based on auction (intra-day for the rest of the day)**

- Pros: Market Discovered Price; Dispute free; Not administered; Akin to DAM but closer to real time
- Cons: Preparedness of Power Exchange (PX); Discoms' decision making process; OA registry, a pre-requisite

### **Option-6: Pool, based on auction (hourly)**

- Pros: Market Discovered Price; Dispute free; Not administered; Akin to DAM but closer to real time
- Cons: Preparedness of PX; Discoms decision making process; OA registry, a pre-requisite

**Option-7: Pool, based on auction (intra-hour i.e. 15 min. block)**

- Pros: Market Discovered Price; Dispute free; Not administered; Akin to DAM but closer to real time
- Cons: Preparedness of PX; Discoms' decision making process; OA registry, a pre-requisite

**II. Illustration:**

- a. Auction: 7.30 Hrs. – 8.00 Hrs. window, transaction for 'rest of the day' (Intra-day : Option 5) / 'for 9.00 – 10.00 Hrs.' (Hourly : Option 6) / 'for 9.00 – 9.15 Hrs.' (Intra-hour : Option 7), and so on
- b. Generators can participate for sale of surplus power (over and above already scheduled on day-ahead basis)
- c. Sellers (other than generators) and buyers can participate for surplus / deficit vis-à-vis their schedule on day-ahead basis
- d. After the trade materializes under Option 5, 6 or 7 as the case may be, net schedule for the buyers and sellers shall be prepared, which will serve as reference point for DSM / UI
- e. However, payment for 'Day-ahead' transaction and 'Intra-day' (Option 5) / 'Hourly' (Option 6) / 'Intra-hour' (Option 7) transactions shall be settled separately based on the schedules for the respective segments
- f. Open Access Registry and delegation of decision making authority to operating level at Discom are pre-conditions to success of this framework.

\*\*\*\*

4, 5, 10, 11, 12