

North Eastern Regional Power Committee

Agenda For

88th Operation Coordination Sub-Committee Meeting

Time of meeting : 10:00 Hrs.

Date of meeting : 7th August, 2013 (Wednesday)

Venue : Hotel Grand Starline, Guwahati.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 87th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 87th meeting of Operation Sub-committee held on 9th April, 2013 at Guwahati were circulated vide letter No. NERPC/OP/OCC/2013/4080-4109 dated 16th July, 2013.

POWERGRID vide mail dated 23.07.2013 wanted Item No. C.2 to be modified as below:

Item No: C.2- Minutes recorded: "On enquiry about the status of DPR, DGM, POWERGRID informed that DPR has already been prepared and has been sent to corporate office for approval before submission to CEA and NERPC and the estimated cost is about Rs. 23.7 crores".

Minutes to be recorded as: "On enquiry about the status of DPR, DGM, POWERGRID informed that the matter will be discussed with concerned authority and revert back accordingly"

The estimated cost projected in the DPR for rectification / renovations of substations / generating stations is given below:

Name of Utility	Estimated Cost (Rs. In Crores)
Ar. Pradesh	33.454
Assam	381.584
Manipur	40.815
Meghalaya	183.659
Mizoram	65.247
Nagaland	37.525
Tripura	73.618
NEEPCO	40.74
NHPC	5.549
POWERGRID	To be read as Revert back.
Total	[Rs. 862.19 crores excluding PGCIL]

NEEPCO also intimated by email dated 22.07.2013 that the **Item No. D.6** may be corrected as below:

Item No: D.6- Minutes recorded: Shutdown as approved by the Committee:

"STG #1 of AGBPP – w.e.f. 04.08.2013 for 30 days (subject to confirmation by Japanese Technical Advisors from MHI)"

Minutes to be recorded as:

"GTG #1 of AGBPP – w.e.f. 04.08.2013 for 30 days (subject to confirmation by Japanese Technical Advisors from MHI)"

The Sub-committee may confirm the minutes of 87th OCCM of NERPC as no other observations or comments were received from the constituents.

ITEMS FOR DISCUSSION

B. OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING JUL, 2013

As per the data made available by NERLDC, the grid performance parameters for July, 2013 are given below:

- i) **Average frequency** during July, 2013 was 50.07 Hz as compared to 50.08 Hz in June, 2013
- ii) **Minimum frequency** in July, 2013 was 49.02 Hz (05.07.13 at 19:45 hrs) as compared to 49.05 Hz recorded in the previous month.
- iii) **Maximum frequency** was 50.63 Hz (20.07.13 at 08:02 hrs) as compared to 50.77 Hz recorded in June, 2013.
- iv) **System frequency** remained within permissible range of 49.7 Hz to 50.2 Hz for 84.99 % of the time, below 49.7 Hz for .47 % and above 50.2 Hz for 14.50 % of the time as compared to 80.90 %, 1.62 % and 17.48 % respectively in the previous month.
- v) **Regional peak** demand in June, 2013 was 2101 MW as compared to 1993 MW in June, 2012, an increase of 5.4 % over the previous month.
- vi) **Regional peak availability** was 1900 MW as compared to 1810 MW in previous month, an increase of 4.97 % over the previous month.
- vii) **Energy requirement** was 1090.91 MUs in June, 2013 compared to 994.01 MUs in May, 2013, an increase of 9.86 % over the previous month.

- viii) **Regional energy availability** was 1021.73 MUs compared to 911.40 MUs in the previous month, an increase of 12% over the previous month.
- ix) **Rise in demand met** was recorded in Manipur (3%), Assam (1%), Ar. Pradesh (6%), Mizoram (9%) & Tripura (4%) over the previous month.
- x) **Drop in demand met** was recorded in Nagaland (4%) Meghalaya (6%) over the previous month viz. May, 2013.
- xi) **No Over Voltage** at 400 kV Sub-Station was observed
- xii) **No over Voltages** were observed at 220kV & 132 kV S/S.
- xiii) **No under Voltages** were observed at 400 kV S/S & 220 kV S/S.
- xiv) **No Under voltage** at 132kV S/S was observed.
- xv) **Regional Generation & Inter-regional Exchanges** during the month of July, 2013 compared to June, 2013 are given below:

SN	Parameter	July, 2013	June, 2013
REGIONAL GENERATION & INTER - REGIONAL EXCHANGES (in MU)			
1	Total Generation in NER (Gross)	1009.876	875.862
2	Total Central Sector Generation (Gross)	640.804	537.135
	Total State Sector Generation (Gross)	369.072	338.221
3	Inter-Regional Energy Exchanges		
	(a) NER - ER	16.78	20.76
	(b) ER - NER	115.33	187.18
	(c) Net Import	98.56	166.43

C. FOLLOW UP ACTION

C.1 Synchronization of Pallatana module -I

During the 87th OCC meeting, OTPC representative informed that the plant was inaugurated by His Excellency President of India on 21st June, 2013 and during that time the generation was around 70 MW. However, the machine tripped after sometime due to some problem in the gas pipeline. OTPC is trying their best, in consultation with ONGC and BHEL, to resolve the problem as early as possible so that COD is achieved before July 31, 2013, the deadline as per CERC order.

The Sub-committee enquired from OTPC & POWERGRID about the following issues:

i) Permission from CERC for Extension of injection of infirm power till CoD & Commissioning of Unit #2

OTPC informed that the matter regarding the dead line for injection of infirm power to the grid is being taken up by the management and necessary action will be taken in time. Further, he informed that Unit #2 is ready in all respect and the same is likely to be commissioned by August, 2013

ii.) The status of following transmission system associated with evacuation of power from generating stations of OTPC at Palatana and of NTPC at Bongaigaon as informed by POWERGRID is given below:

Byrnihat – Bongaigaon 400kV line – **October, 2013**

Balipara – Bongaigaon 400 KV D/C line - **December, 2013**

Silchar- Imphal 400kV D/c line and substation at Imphal- **works in progress**

Silchar- Melriat 400kV D/c line and substation at Malriat - **works in progress**

Mariani – Mokokchung 220kV D/c line - **works in progress**

SN	Name of Line	Total Tower Locations	Line Length (Km)	Cummulative Progress as on 01.07.2013		
				Foundations completed (Nos)	Erection of towers (Nos)	Strng (Ckm)
1	400KV D/C Silchar - Melriat line	436	143.58	142	125	79.3
2	400KV D/C Silchar - Imphal line	472	165.99	298	179	51.08
3	220KV D/C Mariani (New) - Mokokchung	157	48	79	47	0
4	400KV D/C Byrnihat-Bongaigaon line	565	201.46	498	485	134.082

POWERGRID stated that the status of works which are under progress will be intimated in the next TCC/RPC meetings. Further, POWERGRID informed that 400kV Balipara – Bongaigaon D/C line # 3 & 4 with FSC & Quad conductor will be commissioned by December 2013 and subsequently the same will be put under Commercial operation to enhance the reliability of NER system.

Committee may like to discuss and review the current status of progress:

SN	Items	Present status
1	Trial operation of Unit -1 of OTPC at Palatana	
2	Permission from CERC for Extension of injection of infirm power till CoD	
3	400KV D/C Silchar - Melriat line	
4	400KV D/C Silchar - Imphal line	
5	220KV D/C Mariani (New) - Mokokchung	
6	400KV D/C Byrnihat-Bongaigaon line	
7	400kV Balipara – Bongaigaon D/C line # 3 & 4 with FSC	

Revival of Palatana generation: Palatana unit is under outage since 06.07.2013 due to gas related problems. Revival of this unit is very essential in view of the increasing demand of the region. OTPC may please intimate the exact date of revival of unit so that proper generation planning can be done. *While on the subject it is brought to the notice of the forum that while the demand of NER have gone up considerably there is no major addition of capacity(except for Palatana) and the import ATC is also more or less the same. Considering the above it is essential that all existing units (both in state and central sector) are optimally operated and proper demand management done.*

OTPC may kindly intimate the current status & Committee may like to discuss the status of revival of Pallatana Generation.

C.2 Independent third party audit of protection system:

The estimated cost projected in the DPR for rectification / renovations of substations / generating stations is given below:

Name of Utility	Estimated Cost (Rs. In Crores)
Ar. Pradesh	33.454
Assam	381.584
Manipur	40.815
Meghalaya	183.659
Mizoram	65.247
Nagaland	37.525
Tripura	73.618
NEEPCO	40.74
NHPC	5.549
POWERGRID	(to be reverted back)
Total	[Rs. 862.19 crores excluding PGCIL]

Committee may like to discuss the future course of action.

C.3 Details of Installations and self-certification (by STUs and CTUs) in respect of operationalisation of Under Frequency Relays (UFRs) in NER systems and additional requirement of UFR and df/dt relays:

During 86th OCC meeting, the committee decided that the UFR based load shedding will be as follows:

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The 60% of NER's peak load (i.e. about 1800 MW) = 1080 MW. The amount of load shedding for NER could be as follows:

Sl. No.	Stages	Frequency (in Hz)	Amount of Load shedding (in %)	Amount of Load shedding (in MW)
1	Stage-I	49.2	10%	108
2	Stage-II	49.0	10%	108
3	Stage-III	48.8	15%	162
4	Stage-IV	48.6	15%	162
Total load shedding				540

Meanwhile CEA vide their letter dated 22.07.2013 had intimated that during the 2nd NPC meeting held on 16.07.2013, the Committee had decided to revised the quantum of load shedding under UFRs for NER could be as follows:

Sl. No.	Stages	Frequency (in Hz)	Amount of Load shedding (in MW)
1	Stage-I	49.2	100
2	Stage-II	49.0	100
3	Stage-III	48.8	100
4	Stage-IV	48.6	100
Total load shedding			400

Further CEA vide their letter dated above had requested that the scheme should be implemented within three months as agreed in the NPC meeting and monthly progress report of implementation should be communicated to CEA regularly.

During 87th OCC meeting, the committee had requested all the constituents to identify the feeders for above four stages of load shedding so that the same can be finalized.

The Sub-committee may now like to discuss about the identification of the feeders and the quantum of load shedding etc. in respect of each state at different stages so that the same can also be put up to TCC forum.

C.4 Lines under long outages

During the 87th OCC meeting, the issue for restoration of these lines was reviewed by the committee and the status was as follows:

- (a) 220kV BTPS – Agia line (one ckt) – Tender has already been opened and order is likely to be placed by April, 2013 and the target for completion of work is January, 2014.
- (b) 132kV Mariani – Mokokchung line – during 83rd OCC meeting, AEGCL informed that the line was charged but tripped immediately after charging due to faults in some portion of the lines under Nagaland. During 84th OCC meeting, the representative of Nagaland informed that the work of replacement of some insulators is under progress. After completion of replacement work, the line can be charged. Representative from DoP, Nagaland informed that the work is in progress to revive this line by replacing the insulators, checking the jumpers, conductor etc. Further, he informed that the work is likely to be completed by September, 2013.
- (c) 39km of 132kV Rengpang – Jiribam line – During 86th OCC meeting the representative of Manipur had informed that stringing of line is complete and work at termination point near substation is going on; the same will be completed by July, 2013. The status could not be updated since no representative from Manipur was present.
- (d) 132 kV Dimapur - Dimapur - II line – POWERGRID informed that Nagaland has agreed to the proposals made by them and the issue will be resolved soon. Nagaland representative informed that some local arrangement is being done to charge the Kohima line directly from Dimapur S/S and the work is likely to be completed by April 2013. As soon as the work is over, the problem with 132 kV Dimapur - Dimapur - II line will be resolved in association with POWERGRID. Representative from DoP Nagaland informed that since Kohima is State capital and it will be difficult to give consent unless power is assured from Karong side. He further mentioned that POWERGRID had intimated that they will take up with DoP Manipur to check the healthiness of the line and communication link between Kohima and Karong before taking shutdown to take up LILO work at Dimapur, but the same has not been carried out by them.

DGM, POWERGRID informed that as per the latest status, DoP, Nagaland has not completed the local arrangement as referred above. Further, he requested the forum to refer the matter to 14th NERPC Meeting as no positive outcome has been observed so far.

The current status may be informed by Nagaland/ Manipur/ POWERGRID.

C.5 SPS Scheme for Pallatana:

During 84th OCC meeting and 8th PCC meeting NERLDC gave a presentation on system studies and other related issues pertaining to System Protection Scheme (SPS) associated with following conditions:

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Case 1: Tripping of generating unit of OTPC at Palatana

Case 2: Tripping of 400 kV D/C Palatana-Silchar line

Case 3: Tripping of 400 kV Silchar-Byrnihat line.

NERLDC informed that the study was carried out by taking the base case of NER peak and off-peak conditions in July, 2013.

During off-peak hours, the above trippings may not create serious problem. But during peak hours, above trippings may lead to grid disturbance.

As pre-condition, for successful operation of the proposed System Protection Scheme (SPS), the following lines should be kept in open condition for all the three cases mentioned above:

- 132 kV D/C Khliehriat(PG) – Khliehriat(MeECL) lines at Khliehriat(MeECL)
- 132 kV Khliehriat(MeECL) – NEHU line
- 132 kV Khliehriat(MeECL) – NEIGRIHMS line
- 132 kV Pailapool – Jiribam line at Jiribam end

The scheme for all the three cases will be as follows:

Case 1: When Palatana unit trips:

- i. When generator at Palatana trips a signal will be generated from trip relay of the unit.
- ii. This signal should trip the CB of 132 kV Silchar – Srikona D/C & 132 kV Silchar – Panchgram lines at Silchar.
- iii. Subsequent to tripping of 132 kV Silchar – Panchgram line, the CB at Badarpur of 132 kV Badarpur – Panchgram line should be tripped.
- iv. After these trippings an instant load of 80 MW will be relieved during off-peak hours & 130 MW will be relieved during peak hours which will prevent the system from cascade tripping
- v. Then manual demand disconnection/management should be imposed.

Case 2: When 400 kV Palatana-Silcher (D/C) lines trip

- i. When both the ckts of 400 kV Palatana – Silchar lines trip, a signal will be generated from trip relays at Silchar
- ii. This signal should trip the C CBs at Silchar end of 132 kV Silchar – Srikona D/C & 132 kV Silchar – Panchgram lines.

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- iii. Subsequent to tripping of 132 kV Silchar – Panchgram line, the CB at Badarpur end of 132 kV Badarpur – Panchgram line should be tripped.
- iv. After these trippings an instant load of 80 MW will be relieved during off-peak hours & 130 MW will be relieved during peak hours which will prevent the system from cascade tripping
- v. Then manual demand disconnection/management should be imposed.

Case 3: 400 kV Silchar – Byrnihat line

- i. When 400 kV Byrnihat – Silchar lines trip, signal will be generated from trip relays at Silchar
- ii. This signal should trip CB of GTG/STG of Generating Unit at Palatana. But unit may run in Full Speed No Load (FSNL) condition.
- iii. An instant relief of load of 230/130 MW will prevent the system from cascade tripping.
- iv. Then manual demand disconnection/management should be imposed

Regarding nomination for system study group, the status as informed in the 85th OCC meeting is given as below:

Ar. Pradesh – Shri Tarik Mize, Executive Engineer.

Assam – Navjit Patir, AEGCL.

Manipur – Shri N. Jasobanta Singh, AE & Shri Th. Bimol Singh, AE

Mizoram- Sh. C.C. Lalrimwala, SDO & Sh. Zoramdina, AE

Meghalaya – Sh. D.J. Lyngdoh, AEE, SLDC & Sh. L. Nongkhlaw, AEE, SLDC

Nagaland- Sh. S. Longkumer, SDO, Sh. H. Assumi, SDO & Sh. C. Walling, SDO

Tripura – Sh. Mrinal Paul, Manager & Sh. Anwesh Choudhury, Manager.

NEEPCO – Sh. Bhaskar Goswami, Sr. Manager.

NERLDC – Sh. A. Mallick, CM & Sh. Anupam Kumar, Engineer

NERTS – Sh. P. Kanungo, DGM & Sh. Supriya Paul, Dy Manager

OTPC – Sh. Tapas Karmakar, Asstt. Manager

NERPC – Sh. Lalrinsanga, EE & Sh. S.M. Jha, EE

IIT, Guwahati - nomination will be taken up by NERPC Secretariat.

Further, the committee requested NERLDC to organize a meeting for System Study group as per their convenience as most of the nominations have been received from the constituents.

During 87th OCC meeting, OTPC informed that the proposed SPS pertaining to tripping of generating Unit#1 (Case-I) has already been implemented successfully in consultation with POWERGRID. However, discussion is required with BHEL, POWERGRID, NERLDC and NERPC before implementation of the SPS for Case II & III.

The representative of OTPC requested for a meeting of representatives of above organizations to resolve the matter at the earliest either at Palatana or at NERTS, Shillong.

SE (O) enquired from OTPC about the likely date to have this discussion. OTPC confirmed for 23rd July, 2013.

The Sub-committee decided that the issue shall be discussed and finalized on 23rd July, 2013 at NERTS, Shillong and requested OTPC to attend the above meeting along with representative of BHEL.

POWERGRID informed vide mail dated 01.08.2013 that the end-to-end testing of SPS scheme jointly with the representatives of Pallatana was carried out on 26.07.2013. At present, the scheme is kept in SWITCHED OFF condition.

Meanwhile NERLDC informed that the SPS scheme when Palatana is generating is already deliberated and is under implementation. The SPS scheme **when Palatana is not generating** is enclosed at **Annexure-C.5** for deliberation of the members and approval.

Committee may like to discuss the status of implementation of SPS and future course of action.

C.6 Implementation of Islanding Scheme in NE:

During the 85th OCC meeting, MS I/C, NERPC informed that during the NPC meeting, held at CEA, New Delhi on 15th April, 2013, he had expressed the difficulty in preparation of islanding schemes in NE Region because of very low level of frequency (i.e. 47.9 Hz) proposed for islanding. POSOCO was requested by NPC to extend necessary guidance / assistance to NERPC / NERLDC in formulation of the suitable islanding scheme(s) in that region.

The islanding Scheme proposed by NERLDC was discussed.

The committee enquired about the frequency setting for tripping of the Gas based generating Units covered under the proposed islanding schemes.

Assam representatives informed that the frequency setting for tripping of the Gas based generating Units of NTPS is 48.72 Hz.

NEEPCO informed that the frequency setting for tripping of the Gas based generating Units is generally much higher than proposed islanding frequency i.e. 47.9Hz. The frequencies at which generating Units of AGBPP are likely to trip are 47.5 Hz (for M/s Mitsubisi make unit) and 48.0 Hz (for M/s BHEL make unit) and that of AGTPP is 48.0 Hz. OTPC informed that frequency setting for tripping of the Gas based generating Units of OTPC is 47.8 Hz (for M/s BHEL make Unit).

After detailed discussion the committee has decided the following frequencies for creation of islands in NER:

<u>Sl. No.</u>	<u>Islanding Scheme</u>	<u>Frequency</u>
1.	Island comprising of generating units of AGBPP, NTPS & LTPS and loads of Upper Assam system & Deomali area [Total Generation: 380-400MW and load: 200-300MW]	48.80 Hz
2.	Island comprising of generating units of AGTPP, generating units at Baramura, Rokhia & Gumati (Hydro) and loads of Tripura system & Dullavcherra area [Total Generation: 150-160MW and load: 110-150MW]	48.20 Hz
3.	Isolation of NER from NEW grid at ER-NER boundary with rest of the generation and load of NER	47.90 Hz

Further, the committee suggested for discussion with ER regarding isolation of NER from NEW grid at ER-NER boundary. All constituents were requested to study the proposal so that the matter can be discussed further for finalization.

During the 87th OCC meeting, the Committee agreed for the islanding scheme of 1 & 2 above. However, for 3rd islanding scheme, committee requested NERLDC to go for system study before finalization. When the NER grid is in import mode, isolation of NER from ER grid may deteriorate the situation further in NER. But when the NER grid is in export mode, isolation of NER from ER grid may be helpful. After isolation, NER may be in a position to support ER for early restoration of their system. DGM, NERLDC informed that depending on the power flow in NER-ER corridor, the islanding scheme can be made functional accordingly.

The committee requested NERLDC to take initiative to involve the system study Group to study the proposed islanding Scheme and SPS in detail. NERLDC agreed.

The Committee may like to discuss about the implementation plan. NERLDC may inform about the status of studies relating to Islanding scheme.

C.7 Loadability Enhancement of 132KV Transmission lines

NERLDC has requested POWERGRID, vide their letter No. NERLDC/GM/547 dtd 14.11.2012 for enhancement of loading capacity of the following lines:

- a) 132KV S/c Badarpur - Khliehriat Line (77 KM)
- b) 132KV S/c Loktak - Jiribam-II Line (82 KM)
- c) 132KV S/c Dimapur - Imphal Line (169 KM)
- d) 132KV S/c Imphal - Loktak-II Line (35 KM)

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NERLDC has stated that enhancement of loading capacity of the above lines is required for higher load dispatch, particularly in the context of evacuation of power from Pallatana GBPP.

Accordingly, POWERGRID has already taken the following actions for increased loadability:

During 80th OCC meeting, NERLDC requested to include following lines for enhancement of loading capacity:

- i) 132 kV Khandong- Khlerhiet –I
- ii) 132 kV Khandong - Haflong

Upgradation of existing CTs

NEEPCO informed that the procurement of CTs for Khandong – Khliehriat and Khandong-Haflong is in progress and the work will be completed by January, 2014.

Fixing of Additional Jumpers:

DGM, POWERGRID informed the current status of existing CTs & Additional jumpering in identified transmission lines as below:

SN	Line for loadability enhancement	Status of Up-gradation of existing CTs (300/1) to higher capacity CTs (600/1)	Fixing of additional jumpers at all tension locations
1	132 KV S/C Loktak – Jiribam II	Complete	Complete
2	132 KV S/C R.C. Nagar – Kumarghat	Complete	Complete
3	132 KV S/C Aizawl – Kumarghat	Complete	Complete
4	132 KV S/C Nirjuli – Ranganadi	Complete	Complete
5	132 KV S/C Dimapur – Imphal	Planned in July, 13	Complete
6	132 KV S/C Badarpur – Khliehriat	Complete	Complete, except for 20 locations. Expect to complete Sept, 2013
7	132 KV S/C Loktak – Imphal II	Complete	Planned in Oct, 13. Materials under procurement

POWERGRID may intimate the current status.

C.8 LGBR for 2013 -2014

During the 87th OCC meeting, NERPC had requested all the STUs, Generators and POWERGRID to submit the outage planning for Generating units as well as important transmission elements which affects the operation of the NER grid at the earliest so that same can be included before circulation. All constituents agreed.

However, till date only POWERGRID have furnished the outage planning for the FY 2013-14. ***All the constituents are once again requested to submit the outage planning for Generating units and important transmission elements, if not submitted so far, so that same can be included in the final LGBR.***

C.9 Grid Security Expert System (GSES):

POWERGRID has planned an automated defense plan for all five regions named as Grid Security Expert System (GSES). The Region wise estimated cost based on the feeders identified by POSOCO including IDC shall be as follows:

S.N	Subject	NR	SR	WR	ER	NER	All India
1.	Estimated DPR cost of GSES (in Rs. Crores)	82.59	42.13	124.85	55.42	49.47	354.46
2.	Number of Feeders	1064	763	1502	503	410	4242
3.	Estimated DPR cost of OPGW based communication system (in Rs. Crores)	141.61	368.37	174.24	83.18	80.42	847.82
4.	Length of OPGW	4967	14706	6111	2868	2688	31340
	Total Estimated cost (in Rs. Crores)	224.20	410.50	299.09	138.60	129.89	1202.30

The GSES was discussed in detail in last Special TCC held at Shillong on 9th February, 2013. After detailed deliberation the following decisions of the TCC was conveyed to CERC.

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1. All constituents agreed in principle to the technical requirement of the GSES scheme for NER grid.
2. The basic infrastructure at most of Sub-station like circuit breakers, protection relays, etc. are not adequate for implementation of the scheme.
3. There are no full fledged SLDCs in Ar. Pradesh, Manipur, Mizoram and Nagaland.
4. Funding is major concern as NER states are financially weak.
5. The quantum of UFR based load shedding needs to be relooked for NER States.
6. More deliberation on technical and commercial issues is required before formulation/implementation of the scheme.

All constituents had agreed in principle to the technical requirement of the GSES scheme for NER grid, but more deliberation on technical and commercial implication was required before formulation / implementation of the scheme.

During the 87th OCC meeting, NERPC informed that comments have been received only from Assam, Tripura till date.

The committee had requested all State constituents to go through the details pertaining to GSES and communicate their comments/feedback to LDC Division PGCIL and NERPC so that the matter can be fruitfully discussed meeting all queries in next TCC/RPC meeting. In the mean time the observation of Mizoram has also been received.

Committee may like to discuss on the issue.

C.10 Release of day ahead drawal schedule based on actual requisition by Constituents instead of open and full capacity requisition:

During the 87th OCC meeting, NERLDC gave a presentation on requisition based scheduling and highlighted the difficulties likely to be encountered. During the presentation, the format in which schedule for 96 time blocks should be submitted was explained and the importance of minimum technical limit, ramp rate of machine, dead band of hydro machines etc. were also explained to the constituents.

DGM, NERLDC requested all the constituents to submit the data in the prescribe format so that mock exercise can be carried out.

After detail deliberation, for the benefit of constituents, the Sub-committee decided to start the mock exercise w.e.f. 22.07.2013 and the status will be reviewed in the next OCC meeting.

NERLDC may kindly intimate the current status and highlight the difficulties likely to be encountered in initial phase. Committee may like to discuss and finalize the date for implementation of requisition based scheduling.

C.11 Maintenance of Isolators at 79 Tilla S/S:

Tripura informed that maintenance work of 6 nos of isolators at 79 Tilla Grid s/s which are connected with 132 KV R C Nagar L-I & L – II have been pending since a very long time. Power Grid had done only partial maintenance work on 3 (three) isolators out of 6 (six). The remaining work of isolators along with Earth switches is very urgent from operational point of view.

During the 87th OCC meeting, POWERGRID informed that purchase order of materials for the above work has been placed and work is expected to be completed by September, 2013.

POWERGRID may intimate the current status.

C.12 Installation of Harmonic Filters:

During the 87th OCC meeting held on 09.07.2013, representative from DoP, Ar. Pradesh informed that the material for the above work has already been procured as per the specification of POWERGRID and the material has reached the site. He requested POWERGRID to send their representative to check and verify so that Ar. Pradesh can pursue with Satyam Steel Plant to install the filters at the earliest. POWERGRID agreed.

POWERGRID vide letter dated 24.07.2013 informed that they have deputed their engineer to visit the plant on 10.07.2013 and found that they were carrying out the installation work. However, on 11.07.2013 the GM of the plant informed that the filters got burned during charging. Further, POWERGRID engineer verified the purchase order and challan of the equipment and found out that the purchase order is as per the specification of CPRI, however, the challan is not as per the specifications.

The installation of Harmonic Filter took place after prolonged period of 2/3 years and unfortunately, when the same was charged immediate failure occurred. The matter is required to be investigated properly for installation of proper equipment and accordingly DoP, Ar. Pradesh may take up the issue strongly with M/S Satyam Steel Plant for early installation of filters so that the problem of harmonic stress on the equipments can be eliminated.

Ar. Pradesh may inform the current status installation of harmonic filters at Banderdua.

C.13 Telemetry Data/Voice Communication of Bongaigoan TPP:

NERLDC vide their letter dated 05.06.2013 had informed that the 1st Unit of Bongaigoan TPP (3 x 250 MW) of NTPC is expected to be commissioned during May/June, 2014. In this regard, this is to state that before commissioning of the project, the connectivity conditions pertaining to Telemetry Data/Voice Communication systems in terms of clause 4.6.2 of IEGC 2012 read with clause 6(3) of CEA (Technical Standards for connectivity of the Grid) Regulations, 2007 are

fully met and the real time data of the said project be made available in the SCADA database of NERLDC along with voice communication systems at the time of commissioning.

Since there was no representative from NTPC in the 87th OCC meeting, the issue could not be discussed.

NTPC may intimate the status as above.

C.14 Poor Availability of Auxiliary Supply at various Sub-stations of POWERGRID in NER:

In line with the MOM of 87th OCC Meeting the issue has been taken up with concerned utilities to look into the matter and improve the availability & reliability of existing source from which auxiliary power supply is provided to following Sub Stations of POWERGRID, NER:

SN	Station	Present Availability	Communication Made	Status / Action Plan
1	Bongaigaon SS	60%	The CGM (D), LAR	
2	Salakati SS	60%	The CGM (D), LAR	
3	Kumarghat SS	80%	AGM (CS & O), TSECL	
4	Misa SS	20%	The CGM (D), CAR	
5	Balipara SS	75%	The CGM (D), CAR	
6	Badarpur SS	60%	The CGM (D), LAR	

The utilities may please furnish the status

C.15 Provision of 2nd Source for Auxiliary Supply at various Sub-stations of POWERGRID in NER:

In line with the MOM of 87th OCC Meeting the issue has been taken up with concerned utilities to look into the matter and identify the second independent source through which redundant auxiliary power supply can be provided to the sub stations of POWERGRID, NER. Further, our representative has also discussed with the in-charge of local stations and the status is as below:

Agenda for 88th Operation Coordination Committee (OCC) Meeting

SN	Station	Communication Made	Status / Action Plan
1	Bongaigaon	CGM (D), LAR	Applied for a second source to DGM, APDCL, Kokrajhar. Response is being awaited till now.
2	Salakati	CGM (D), LAR	<i>APDCL may please expedite</i>
3	Kumarghat	AGM (CS & O), TSECL	Already has a 33 kV Connection apart from the existing 11 kV connection in use. The 33/0.4 kV Transformer is to be commissioned. <i>No issue</i>
4	Misa	CGM (D), CAR	Applied to SDO, Kathiatoli, for a second source. APDCL is to give estimate. <i>APDCL may please expedite</i>

SN	Station	Communication Made	Status / Action Plan
5	Balipara	CGM (D), CAR	Applied to SDO, Balipara for a second source. DGM PDCL, Tezpur confirmed that a 33 kV Line can be extended from Ghoramari S/S. Survey is to be conducted and estimate to be prepared. <i>APDCL may please expedite</i>
6	Badarpur	CGM (D), LAR	Applied to DGM, APDCL, Panchgram for a second 33 kV connection, who has confirmed it's feasibility but yet to submit cost estimate to POWERGRID. <i>APDCL may please expedite</i>
7	Dimapur	The Addl. Chief Engineer, DoP, NL	Applied to Ex. Engr, Dimapur who has confirmed verbally that there is no provision for a second source. <i>Issue may be discussed</i>
8	Haflong	CGM (D), LAR	Applied to AGM, APDCL, Haflong who has confirmed that there is no provision for a new 33 kV connection. However he has confirmed that a 33 kV connection is possible from the 132/33 kV Haflong Grid Substation and requested to take up the matter with AGM, AEGCL, Silchar. <i>AEGCL may please comment</i>
9	Aizawl	Chief Engineer (Distribution) P & E Deptt.	Taken up with P&E Deptt. and it is confirmed that a second 11 kV connection is possible from Luangmual S/S. POWERGRID to request P&E Deptt. for an estimate for the new connection. <i>P&E, Mizoram may please expedite</i>
10	Nirjuli	Chief Engr(P) WEZ, DOP, AP	POWERGRID, Nirjuli will approach DoP, AP shortly. <i>DoP, AP may please expedite</i>

C.16 Monthly MU requirement & availability of each state of NER as per format:

Requirement

Name of State	Jun13	Jul13	Aug13	Sep13	Oct13
Arunachal Pradesh					
Assam					
Manipur					
Meghalaya					
Mizoram					
Nagaland					
Tripura					

Availability

Name of State	Jun13	Jul13	Aug13	Sep13	Oct13
Arunachal Pradesh					
Assam					
Manipur					
Meghalaya					
Mizoram					
Nagaland					
Tripura					

These data required for system study, daily report, computation of TTC-ATC etc.

During the 87th OCC meeting all constituents have agreed to furnish the data as per format above, but till date no constituents have submitted the data.

POWERGRID may intimate the current status.

C.17 Energy Audit & Energy Account Circulation:

Energy Metering System for regional energy accounting are installed & maintained by PGCIL. Energy audit in calibration of Energy Metering Systems has so far been not found conducted and reports not circulated to any constituent/beneficiary. Under ABT regime the accuracy of meter reading and compilation of meter data is very much essential for satisfactorily settlement of commercial issues. It is therefore, proposed to carry out calibration of all energy metering system by CPRI and conduct energy audit by Third Party Agency (TPA).

During 87th OCC meeting, the Committee requested POWERGRID to carry out the calibration of all energy meters, which are in operation for more than five (5) years, through external agency as per requirement of CERC.

POWERGRID may intimate the current status.

C.18 Non-submission of weekly SEM readings by Deomali (Ar. Pradesh) & Rengpang (Manipur):

Rengpang and Deomali are drawal points of Manipur and Ar. Pradesh respectively. Weekly SEM readings are not being received from these locations (occasional receipt from Motonga) in spite of discussion/decision in CCM.

During 87th OCC meeting, EE/SLDC, Itanagar informed that the DCD of Deomali is not working and requires replacement. The Sub-committee requested POWERGRID to look into the matter for early replacement. Manipur representative was absent so Rengpang issue could not be discussed.

POWERGRID may intimate the current status.

C.19 Procurement of Notebooks/Laptops instead of DCDs:

During 20th CC meeting, NERTS representative informed that action for procurement of lap tops could not be taken up as details viz. number of laptops, location where laptops are to be provided etc. has not been finalized. In 19th CC meeting, NERTS had agreed to go for lap tops (in place of DCDs) in next round of procurement.

During 20th CC meeting, the representative of Assam suggested that spare DCDs / laptops with required software should be made available along with internet facility in nearby area / at a centralized location to meet any contingency requirement.

During 87th OCC meeting, the Sub-committee requested POWERGRID to procure the laptops instead of DCD as laptops are cheaper than DCD as the same has already been discussed and approved in the 19th CC & 20th meetings. POWERGRID was also requested to finalize the quantities in consultation with NERLDC.

POWERGRID may intimate the current status.

C.20 Concurrence of AMR Project:

During 20th CC meeting, it was agreed that PGCIL will give detail presentation along with back up arrangement to take care of failure of AMR in next OCC meeting.

During 87th OCC meeting, DGM, POWERGRID informed that presentation of above AMR Project will be given in the next OCC meeting.

POWERGRID may intimate the current status.

D. NEW ITEMS

D.1 Operational Statistics for the month of July, 2013

The different proforma for Operational Statistics required for every month are given in Annexure below:

- (i) – Schedule Vs Actual Generation & Requirement.
- (ii) – Peak Demand: Schedule Vs Actual.
- (iii) – Integrated Operation of the system.
- (iv) – Details of DC, schedules and injections from Central sector stations, drawal schedules and entitlements of constituents.
- (v) – Details of major reservoirs in NER.

Committee may like to discuss the present status.

D.2 State-wise anticipated peak demand/requirement, shortage for August, September, October, November & December, 2013.

The sub-Committee may review the anticipated peak demand/energy requirement and finalize the same for the months of Aug to Dec, 2013.

S.No.	State	Peak Demand (MW) Aug' 13	Peak Demand (MW) Sep' 13	Peak Demand (MW) Oct' 13	Peak Demand (MW) Nov' 13	Peak Demand (MW) Dec' 13
1	Ar. Pradesh	130	130	130	130	
2	Assam	1300	1350	1350	1350	
3	Manipur	130	130	130	130	
4	Meghalaya	280	280	280	280	
5	Mizoram	90	85	85	85	
6	Nagaland	120	120	120	120	
7	Tripura	250	250	260	260	
	Region	2300	2345	2355	2355	

The sub-Committee may review the anticipated peak availability and finalize the same for the months of August to December, 2013.

S.No.	State	Peak Availability (MW) Aug' 13	Peak Availability (MW) Sep' 13	Peak Availability (MW) Oct' 13	Peak Availability (MW) Nov' 13	Peak Availability (MW) Dec' 13
1	Ar. Pradesh	120	120	120	120	
2	Assam	1050	1130	1100	1100	
3	Manipur	110	110	115	115	
4	Meghalaya	250	250	250	250	
5	Mizoram	75	75	75	75	
6	Nagaland	90	110	115	115	
7	Tripura	185	185	190	190	
	Region	1880	1980	1965	1965	

D.3 Signing of BPSA in respect of Loktak Power Station:

Signing of BPSA in respect of Loktak Power Station is pending with Dept. of Power, Govt. of Ar. Pradesh and APDCL (Assam) in spite of regular follow up. In the 19th CCM, beneficiaries had assured NERPC & NHPC that these BPSA will be signed on priority but no significant development took place.

Assam & Ar. Pradesh may kindly intimate the status.

D.4 Status of Rokhia GT Project:

As per the MoU signed by Govt. of Assam and Govt. of Tripura, regarding modalities for sharing of power from NEC funded Rokhia GBPP Phase – II, Mizoram has a share of 50% of power generated from this project Phase – II (Unit –V & VI of 8 MW each). The Bulk Power Supply Agreement between TSECL and P&E Dept., Govt. of Mizoram has been signed on 29th July, 2006 and the LC Account for payment of energy bill was opened at SBI, Dawrpui Branch, Aizawl.

Since both the units of this phase –II project are out of service, share of power could not be obtained since February, 2007. Mizoram requested to study the modalities and arrived at solution as to how TSECL would replenish the deficit power due to Mizoram.

Committee may like to discuss.

D.5 Enhancement of Power Allocation:

Mizoram informed that the restricted demand of power during FY 2011-12 is 75 MW whereas in FY 2012-13, the seasonal and peak period restricted demand is around 107 MW. CEA projection of unrestricted demand of power in Mizoram at the end of 12th Five Year Plan is 285 MW. Hence, there is acute shortage of power at all time.

With the implementation of RGGVY scheme in the state, 137 un-electrified villages and 570 intensive electrifications are on the verge of completion. It is calculated that about 20 MW additional power is needed. The state flagship programme "New Land Use Policy (NLUP)" has various trades and power requirement will shoot up by 51 MW. Besides, Indo-Bangladesh border fencing is in full swing and flood-lighting alone is 71x100 KVA and hence for defence consumption alone about 15 MW would have to be allotted to these purposes. So by the end of 12th Five year plan power requirement is calculated to be 371 MW.

Even though many hydel power projects are on the pipeline but the same could not be taken up speedily due to non-availability of statutory clearance and fund constraints in-spite that MoU have already signed during 2011 and 2012.

Therefore, to relieve from acute shortage of power, present allocation of 105.98 MW needs to be reviewed and enhanced to atleast 120 MW.

Committee may like to discuss.

D.6 Pending Power Purchase Agreement with APDCL:

The issue of executing fresh Power Purchase Agreements (PPAs) with Assam Power distribution Co. Ltd (APDCL) for all the Power stations in operation was initiated by NEEPCO vide its letter dated 16.08.2004. In response to the APDCL letter no. ASEB/COM/NEEPCO/KHEP/2008/45 dated 19.01.2011, NEEPCO forwarded 07(seven) no. draft PPAs to the APDCL for its 07 (seven) no. Power stations in operation vide letter no. NEEPCO/ED/COMML/R-9/2011-12/3859 dated 01.02.2012. Since then, a series of communications have been made by NEEPCO to the APDCL for execution of the said PPAs.

Though a very long period have already been elapsed since initiation of the matter relating to execution of fresh PPAs, no positive response/communication has been received by NEEPCO from APDCL till date.

Considering urgency of the matter in light of present rules & regulations, the same is placed for deliberation during the meeting and APDCL may kindly deliberate.

D.7 Reporting Procedure in case of reportable event:

NERLDC has requested SLDC, ISGS & ISTS licensees for submission of report of reportable events as per clause no 4.6.3 and 5.9.6 of IEGC and clause no 12.1 and 15.3 of Grid Standards.

As per 5.2.r of IEGC, information/data of reportable event including disturbance recorder/sequential event recorder output to be sent to RLDC within 24 hours. In absence of such details, objective analysis of the tripping/event could not be done. Analysis of tripping/events is essential for improvement of reliability and security of the grid as well as for regulatory compliance/reporting.

Constituents may please ensure for submission of above information within specific time for further analysis/corrective measures.

D.8 Reliable Voice/data communication:

Many Telemetry Data/Voice communication links provided under the NEULDC scheme is not operational due to lack of maintenance and other issues. Then it may be noted that the infrastructure of SLDCs for the state of Manipur, Mizoram, Nagaland and Arunachal Pradesh are now almost nonexistent and need to be augmented at the earliest in view of the fast changing scenario in the Power sector. The matter was discussed in OCC/ UCC but there is no tangible improvement especially in the State sector.

Further new ISGSs namely Monarchak, Pare [of NEEPCO] and BTPS [of NTPC] are likely to be commissioned within the next one year with Monarchak likely to be commissioned within the next 2-3 months. The telemetry, voice communication in addition to other requirements of the IEGC has to be in place before synchronization of the units.

Constituents/Utilities may please ensure the availability of 100% data at SLDCs/RLDC and all important Power stations/Sub stations.

Committee may like to discuss.

D.9 Metering in ISTS – need of timely action as per Regulations:

IEGC 6.4.21: The CTU shall install special energy meters on all inter connections between the regional entities and other identified points for recording of actual net MWh interchanges and MVA_{rh} drawals. The installation, operation and maintenance of special energy meters shall be in accordance with Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006. ***All concerned entities (in whose premises the special energy meters are installed) shall take weekly meter readings and transmit them to the RLDC by Tuesday noon. The SLDC must ensure that the meter data from all installations within their control area are transmitted to the RLDC within the above schedule.***

IEGC 6.4.22: The RLDC shall be responsible for computation of actual net injection / drawal of concerned regional entities, 15 minute-wise, based on the above meter readings.

Committee may like to discuss.

D.10 CEA Metering Regulations:

Ownership of meters: - (1) Interface meters

All interface meters installed at the points of interconnection with Inter-State Transmission System (ISTS) for the purpose of electricity accounting and billing shall be owned by CTU.

Meter failure or discrepancies: - (1) Interface meters

(d) Billing for the Failure period:

Readings recorded by Main, Check and Standby meters for every time slot shall be analyzed, crosschecked and validated by the Appropriate Load Despatch Centre (LDC). **The discrepancies, if any, noticed in the readings shall be informed by the LDC in writing to the energy accounting agency for proper accounting of energy. LDC shall also intimate the discrepancies to the Appropriate Transmission Utility or the licensee,** who shall take further necessary action regarding testing, calibration or replacement of the faulty meters in accordance with the provisions laid down.

Committee may like to discuss.

D.11 Procedure for outage Planning of Transmission Lines:

Draft procedure for outage planning of transmission lines was sent to RPCs by NLDC for discussion in OCC meetings of different regions and forwarding comments to NLDC for finalization of the procedure.

Committee may like to discuss the draft procedure.

D.12 Default Protection Scheme in Manipur System:

As intimated in the last OCC and PCC meetings the default protection schemes of Manipur system are not working properly; however the matter could not be discussed in details as no representative was present from Manipur. Further on 16-07-13 at 0910 hrs, MOCB of 33kV Mongsangei feeder burst at Imphal S/S(Manipur state) causing tripping of. 132 kV Imphal(PG)-Imphal(state),132 kV Loktak – Ningthoukhong, 132 kV Loktak - Imphal(PG) and all running units of Loktak causing power disruption to Manipur and insecurity in the grid. Had the protection schemes of Manipur were in working condition the fault would have not reflected outside Manipur system.

The matter has become extremely serious and the forum is requested to deliberate the issue irrespective of presence of member from Manipur.

Manipur may kindly deliberate on the issue.

D.13 Non availability of Telemetry System:

The issue of non availability of telemetry was deliberated in earlier OCC, UCC meetings but there is very little improvement specially in the state sector. Recently on 30-07-13 due to non availability of circuit breaker status, Kopli-Khandong ckt II status was wrongly intimated/inferred resulting in Grid disturbance in 132kV pocket while according emergency shutdown of Silchar-Byrnihat line. To avoid such type of incidents all Stake holders are requested to ensure availability of CB and IS status in the control room as well as at RLDC. The details of availability of telemetry including CB/IS status from NERLDC perspective have been put up at NERLDC web site for information of all concerned as per direction of Hon'ble CERC. A brief summary of the telemetry status is also enclosed in **Annexure – D.13**.

All concerns are requested to do the needful and CTU [NERTS] and KHEP Authority may attend the CB status problem at Kopili at the earliest.

D.14 Long outage of Transformers at BTPS:

During the 86th OCC meeting, Assam had informed that one transformer (160 MVA, 220/132 KV) & one 80 MVA, 220/132 KV transformer at BTPS was under shutdown.

Assam is requested to kindly intimate the current status.

D.15 Generation Planning (ongoing and planned outages)

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

Khandong -	MU
Kopilli -	MU
Ranganadi -	MU
Doyang -	MU
Loktak -	MU

NEEPCO proposed shutdown of AGTP #1 from 12.08.13 (20:30) to 13.08.13 (20:30) may kindly discuss & approve.

Generation planning for Hydro stations: The demand met figure of the region has already touched around 2000 MW level. Present reservoir levels in different hydro stations & generation availability have become serious concern for system operation. In addition to that non availability of Palatana generation is affecting regional availability very badly. Proper generation planning from hydro stations is to be chalked out to meet ever increasing demand of the region.

Members may like to discuss and finalize action plan.

D.16 Outage Planning Transmission elements

The sub-Committee may kindly discuss and approve the transmission line outages proposed by POWERGRID/ENCIL/TSECL/NEEPCO for August/September, 13 as enclosed at Annexure- D.16 (i, ii, iii & iv).

D.17 Estimated Transmission Availability Certificate (TAC) for the month of July, 2013.

The Estimated Transmission System Availability for the month of July, 2013, furnished by PGCIL, is **99.9604%**. The detail outage data for calculation of Transmission System Availability furnished by PGCIL, is at **Annexure D.17**. NER constituents are requested to kindly communicate their views and observations, if any, by 26th August, 2013 so that Final TAC for the month of July, 2013 may be finalized by NERPC Secretariat.

Further, Govt. of India has constituted a Comprehensive Award Scheme for Power Sector on annual basis. One of the best awards under the scheme "Best Transmission System Availability". The process has been initiated for the said awards for the year 2012-13 for which nominations from all Central, State and eligible Private/JV Sector transmission licencees are invited. The transmission licencees are requested to forward their data as per enclosed formats given in **Annexure - D. 17(i)** through respective RPCs latest by 14th August, 2013 with due certification by concerned RLDCs/SLDCs where applicable. The name and nodal officers along with contact details should also be provided from respective Organizations.

The Sub-Committee may like to discuss.

D.18 Major grid disturbances in the previous month (July, 2013)

As intimated by NERLDC, there was no major grid disturbance during the month of July, 2013.

Members may kindly note.

D.19 Any other item:

D.19.1 NER System Strengthening Scheme-II (Tariff Based Competitive Bidding Part)

CEA has requested confirmation regarding availability of Space at following stations so that the recommendation for the proposed schemes in NER can be sent to MoP for implementation through Tariff Based Competitive Bidding (TBCB)

- (a) **Byrnihat Substation (of MeECL):** Space for accommodating 2 Nos. 400kV line bays for termination of LILO of 2nd circuit of Silchar-Bongaigaon 400kV D/c line at Byrnihat, 50MVAR fixed line reactor at Byrnihat end of for 2nd circuit of 400kV Silchar-Byrnihat and second 63MVAR bus reactor.
- (b) **New Kohima substation(of DoP, Nagaland):** Space for accommodating 2 Nos. 132kV line bays at New Kohima S/S of Govt. of Nagaland for termination of Imphal (PG)-New Kohima (Nagaland) 400kV D/C line (initially to be charged at 132kV)
- (c) **Itanagar Substation(of DoP, Ar. Pradesh):** Space for accommodating 4 Nos. 132kV line bays at Itanagar Sub-station, Govt. of Ar. Pradesh for termination of (2 Nos) of Biswanath Chariyali- Itanagar 132kV D/c line (Zebra conductor) and (2 Nos) of LILO of Ranganadi HEP -Nirjuli(PG) 132kV D/c line at Itanagar.
- (d) **Ranganadi HEP(of NEEPCO):** Space for accommodating 2 Nos. 132kV line bays at Ranganadi HEP switchyard matching with the commissioning of Ranganadi -Nirjuli(PG) 132kV D/c line

Me.ECL, DoP Ar.Pradesh, DoP Nagaland and NEEPCO are requested to intimate the present status.

The Sub-Committee may like to discuss.

D.19.2 Proper functioning/healthiness of UFRs installed in NER)

As per decision of NPC meeting, one third of UFRs installed in NER is to be inspected in year to check the healthiness/ proper functioning. In NER, twenty one (21) UFRs have been installed in different states [one each in Manipur and Ar. Pradesh, three (3) each in Mizoram, Nagaland, Tripura, Meghalaya and seven (7) in Assam]. Therefore, at least 7 Nos. of UFRs are to be inspected in year for checking of healthiness.

The Sub-Committee may like to discuss the action plan.

D.19.3 Procurement of UFR Testing Kit:

In order to check the healthiness/ proper functioning of UFRs in NER, testing kit is necessary. POWERGRID is requested to procure the UFR testing kit on behalf of NERPC. The expenditure will be reimbursed through Board Fund of NERPC.

Committee may like to discuss.

D.19.4. Status of frequent tripping of machines in AGBPP of NEEPCO

During the 11th PCC meeting, Sr. Mgr. (E/M), NEEPCO informed that AGBPP has already initiated the action and order has already been placed for procurement of three (3) gas engines with compressor of higher capacity and the work is likely to be completed by March, 2014. After commissioning of gas engines of higher capacity, the problem is likely to be resolved.

The Sub-Committee may like to discuss the status till NEEPCO commission the three gas engines.

D.19.5 Parallel Operation of 3x20 MVA Transformers with 160 MVA Auto-transformer at Kopili:

The representative of POWERGRID was requested to fix a suitable date for the meeting in consultation with NEEPCO and to take necessary action to complete the paralleling operation of transformers at the earliest so that 3x20MVA, 220/132kV transformers can be utilized effectively.

During 11th PCC meeting, the committee discussed about the importance of bringing the 3x20MVA transformer back into service. Sr. Mgr. (E/M), NEEPCO informed that the matter has been taken up with POWERGRID. It has been observed that the 3x20MVA, transformer can only operate at Principal tap and there is no back up O/C+E/F protection on 220kV side of transformer. However, all efforts are to be taken to complete the work by July, 2013. The sub-committee suggested that all required protection should be in place before operation of the transformer.

POWERGRID & NEEPCO may intimate the current status.

D.19.5 Frequent Disturbances in Loktak – Manipur Sub-system:

Around 20 to 21 disturbances have been experienced in this sub-system since April, 2013. Matters related to corrective actions to be taken were discussed in details in 86th OCC & 10th PCC meetings. No improvement noticed. Involved entities may please intimate the latest status.

The Sub-Committee may like to discuss

D.19.6 Kumarghat ISTS Link in Pallatana:

Tripura informed that inspite of having all necessary arrangements, in time of isolation of Tripura with RC Nagar generation and unavailability of Kumarghat ISTS link Palatana is not agreeing for synchronization with 400 KV Silchar system. Such non-cooperation of OTPC is putting the state net work and RC Nagar generation to run in isolated mode for longer period which in turn inviting serious instability in the system.

The Sub-Committee may like to discuss

D.20 Date and Venue of next OCC

It is proposed to hold the 89th OCC meeting of NERPC on second week of September, 2013. As per roaster, Mizoram will be the host for 89th OCC meeting. The exact venue will be intimated in due course.
