



सत्यमेव जयते

भारत सरकार Government of India  
विद्युत मंत्रालय Ministry of Power  
उत्तर पूर्वी क्षेत्रीय विद्युत समिति  
North Eastern Regional Power Committee  
मेघालया स्टेट हाउसिंग फिनांस को-आपरेटिव सोसायटी लि. बिल्डिंग  
Meghalaya State Housing Finance Co-Operative Society Ltd. Building  
नांग्रिम हिल्स, शिल्लोंग - 793003  
Nongrim Hills, Shillong - 793003.

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No. 103/2/NERPC/OCC/2008/

Date: 21<sup>st</sup> November, 2008

To

1. CGM, (LDC), SLDC Complex, AEGCL, Kahelipara, Guwahati-781 019
2. Managing Director, AEGCL, Bijuli Bhawan, Guwahati - 781 001
3. Member (Tech), MeSEB, Lumjingshai, Short Round Road, Shillong - 793 001
4. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
5. Chief Engineer (EE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
6. Chief Engineer (P), Department of Power, Govt. of Nagaland, Kohima - 797 001
7. Chief Engineer (P), Electricity Department, Govt. of Manipur, Keishampat, Imphal - 795 001
8. Chief Engineer (P&E), Department of Power, Govt. of Mizoram, Aizawl - 796 001
9. General Manager, TSECL, Agartala - 799 001
10. GM, NERLDC, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
11. ED (O&M), NERTS, PGCIL, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
12. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
13. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
14. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
15. ED (Commercial), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
16. Vice President, PTCIL, 2<sup>nd</sup> Floor, NBCC Tower, 15, Bhikaji Cama Place, New Delhi - 110022
17. AGM(BD), NVVN, Core5, 3<sup>rd</sup> Floor, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi - 110003
18. Member Secretary, ERPC, 14 Golf Club Road, Tollygunge, Kolkata-700033
19. Chief Engineer, GM Division, Central Electricity Authority, New Delhi - 110066

Sir,

Sub: Minutes of the 32<sup>nd</sup> OCC Meeting held on 11<sup>th</sup> November, 2008 at Shillong.

The Minutes of the 32<sup>nd</sup> OCC Meeting of NERPC held on 11/11/2008 at NERPC Conference Hall, Shillong is enclosed for favour of kind information and necessary action please.

Encl: As above

भवदीय / Yours faithfully,

(Manjit Singh)

सदस्य सचिव / Member Secretary

Copy to:

1. SA to Member(GO&D), CEA, Sewa Bhawan, R.K. Puram, New Delhi - 110066
2. Chief Engineer, AEGCL, Bijuli Bhawan, Guwahati - 781001
3. Chief Engineer, APGCL, Bijuli Bhawan, Guwahati - 781001
4. MD, CA DISCOM, Bijuli Bhawan, Guwahati - 781001
5. MD, UA DISCOM, Bijuli Bhawan, Guwahati - 781001
6. MD, LA DISCOM, Bijuli Bhawan, Guwahati - 781001
7. CGM (LDC), SLDC Complex, AEGCL, Kahelipara, Guwahati-781019.
8. S.E. (Trans. & Dist), MeSEB Lumjingshai, Short Round Road, Shillong - 793 001
9. Head of SLDC, MeSEB, Lumjingshai, Short Round Road, Shillong - 793 001
10. Head of SLDC, Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
11. A.C.E. (Gen & Trans), Department of Power, Govt. of Nagaland, Kohima - 797 001
12. Head of SLDC, Department of Power, Dimapur, Nagaland
13. A.C.E. (Power-I), Electricity Department, Govt. of Manipur, Keishampat, Imphal - 795 001
14. Head of SLDC, Electricity Department, Govt. of Manipur, Keishampat, Imphal - 795 001
15. S.E. (Trans & Dist), Department of Power, Govt. of Mizoram, Aizawl - 796 001
16. Head of SLDC, Department of Power, Govt. of Mizoram, Aizawl - 796 001
17. Head of SLDC, TSECL, Agartala - 799 001
18. Chief Engineer(Elect), Loktak HEP, Vidhyut Vihar, Kom Keirap, Manipur- 795124

# North Eastern Regional Power Committee

## **MINUTES OF THE 32<sup>nd</sup>**

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

**Date:** 11/11/2008 (Tuesday)

**Time:** 10:30 hrs

**Venue:** “NERPC Conference Hall”, Shillong.

The List of Participants in the 32<sup>nd</sup> OCC Meeting is given in Annexure – I

Sh. Manjit Singh, Member Secretary, NERPC welcomed the participants to the 32<sup>nd</sup> OCC Meeting. While briefly summarizing the power position of the region, he said that during October 2008 the system frequency profile recorded a slight improvement over the previous month. The system frequency remained below 49 Hz for 9.13% of compared to 15.28% of the time in September 2008. The average frequency improved to 49.43 Hz compared to 49.39 Hz in September 2008. The minimum frequency in October 2008 was 48.65 Hz and maximum frequency was 50.71 Hz as against corresponding values of 48.58 Hz and 50.53 Hz in the previous month respectively. The system frequency was within the IEGC range of 49 to 50.5 Hz for 90.87 % of time in October 2008 compared to 84.72 % of time in the previous month. The average FVI for October 2008 was 4.58 corresponding to that of 5.16 in the previous month. He further stated that high voltages at 400 kV substations were encountered at Balipara, Bongaigaon and Misa where maximum voltage observed was 429 kV, 427 kV and 426 kV respectively. Amongst 220 kV substations, maximum voltage of 236 kV was recorded at Salakati.

He stated that as per the data made available by NERLDC, energy availability in October 2008 improved to 751.638 MUs from that of 736.1 MUs in September 2008 (an increase of 2.11% over the previous month), while energy requirement rise was marginal (0.6%) from 864.99 MUs to 870.152 MUs from that in previous month. The regional peak demand in October 2008 was 1820 MW – a rise of 9.31% over that of 1665 MW in the previous month. The peak demand rise was highest of 41.3% in Arunachal Pradesh followed by Manipur (21.9%), Assam

(15.42%) and Tripura(7.74%) over the previous month. The peak demand drops were observed in Mizoram, Nagaland and Meghalaya of the order of 12%, 4.21 % and 3.87% respectively over the previous month. The peak regional shortage increased to 462 MW in October 2008 from 272 MW in the previous month. He said that regional demand is expected to rise in the coming months on account of winter season, Christmas festival, examinations in schools and colleges. The hydro availability will also get reduced. He therefore requested utilities to ensure maximization of capacity availability and explore means for arranging bilateral power purchase from surplus utilities to meet the shortage and avoid overdrawl at system frequency lower than the permissible level of 49.0 Hz.

He then requested Shri B. Lyngkhoi Executive Engineer (Operation), NERPC to take up the agenda items.

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

#### **CONFIRMATION OF MINUTES OF 31<sup>ST</sup> MEETING OF OPERATION SUB-COMMITTEE OF NERPC.**

Executive Engineer (Operation), NERPC said that the minutes of 30<sup>th</sup> meeting of Operation Sub-committee held on 16<sup>th</sup> October, 2008 were circulated vide letter No. 103/2/NERPC/OCC/2008/3614 – 50 dated 23<sup>rd</sup> October, 2008. No comments were received from any constituent.

He, however, indicated a correction at line no. 2 of last para under section C.2.1.1 of the above minutes regarding reason of frequent tripping inadvertently recorded as ‘contamination of compressor oil’ to be replaced as ‘contamination of gas’. The sub-Committee noted the same. With above-mentioned correction, the minutes of 31<sup>st</sup> OCC Meeting were confirmed.

## I T E M S   F O R   D I S C U S S I O N

### **B.   Operational Grid Discipline and Operational Planning**

Based on real-time observations, NERLDC gave presentation relating to the performance of the grid during the month of October, 2008.

GM, NERLDC intimated that total STOA sale of energy by NER states to outside the region in October 2008 was 85.5 MUs compared to 81.4 MUs in same month last year. He said that STOA sale of energy in October 2008 by Arunachal Pradesh, Assam, Mizoram and Nagaland was higher than that in the same month last year. Meghalaya and Tripura States had also effected STOA sale of energy in October 2008 of the order of 8.8 MUs and 25.7 MUs respectively.

He said that despite the regional peak shortage is high, some of the NER states continue to export power outside the region during the peak period leading to load shedding in the region at low frequency. He therefore requested that NER constituents might review their bilateral agreements for sale of power so that the export of power outside the region is restricted in the peak hours to combat the rising shortage conditions in the region.

The detailed presentation by NERLDC is at Annexure – II.

As intimated by vide their letter No. MeSEB/EE/SLDC/Tec-23/2008-09/1084 dated 01.11.2008 that MeSEB had always endeavored to follow NERLDC instructions relating to grid discipline in line with CERC directives. The MeSEB representative requested that grid violations like over drawl at low frequency of small durations/transitory nature might not be considered to be listed unless the same were intentional/or sustained.

GM, NERLDC clarified that over-drawl at frequency below 49.0 Hz is treated as violation under the IEGC. Therefore, all necessary steps require to be taken by the overdrawing utility to avoid the situation of sustained overdrawl at low frequency and ensure that it gets restricted within a reasonable time duration.

MeSEB vide their letter No. MeSEB/EE/SLDC/Tec-23/2008-09/1084 dated 01.11.2008 had also requested that it was desirable that NERLDC/ISGS might furnish tentative generation schedule for period November 2008 to May 2009 based on anticipated capacity availability and entitlements.

NERDC pointed out that operational planning on real-time basis carried out to achieve a right load-generation balance is dependent on short-term estimation of power requirement of each constituent. This is accomplished on the basis of inputs given by them from time to time.

NERLDC further indicated that the peak demand and requirement figures being furnished by some of the constituents were on the higher side, as while computing the demand by them the factors concerning inability to meet the demand on account of the transmission bottlenecks were also included as shortage. During deliberations the sub-Committee suggested that requirement should reflect demand scenario under the existing transmission network configuration, notwithstanding the inter-state /intra-state transmission bottlenecks are being addressed separately in other fora for long-term solution.

Based on above deliberations, the sub-Committee worked out the anticipated peak demand for November/December 2008 as follows:-

S.No.	State	Anticipated peak demand(MW)
1	Arunachal Pradesh	70
2	Assam	800
3	Manipur	110
4	Meghalaya	240
5	Mizoram	70
6	Nagaland	90
7	Tripura	140
	NE Region	1465

***The sub-Committee further deliberated the issue and it was concluded that each of the constituent would submit information about its likely peak requirement /energy requirement and the availability (i.e. availability from their own generation, bilateral purchases and expected ISGS share(s)) during the current month and the succeeding month by first week of every month to NERPC Sectt. for discussion/review by the sub-Committee in each monthly OCC of NERPC.***

#### **FOLLOW UP ACTION**

##### **C. 1. Installation of Line Reactor at Kathalguri end of Misa – Kathalguri Line**

Executive Engineer (Operation), NERPC said that during the 31<sup>st</sup> OCC meeting held on 16<sup>th</sup> October, 2008 the Sub-committee had suggested that using software package available with NERLDC & ASEB, a system study might be carried out by NERLDC in association with NEEPCO and ASEB to determine suitable location and capacity of a reactor under the prevailing operational scenario of the NER grid network and that the NERLDC would come out with recommendations and the proposal for the reactor along with study details in this OCCM of NERPC for further needful action.

NERLDC intimated that the study by them has been conducted. The results of this study may require to be seen by NEEPCO and tallied with the study results by ASEB before the final outcome is brought out for submission to the OC sub-Committee for discussion and recommendations.

***The sub-Committee discussed and suggested that the results of the study conducted by NERLDC may be discussed in a separate meeting which may be held between NEEPCO, NERLDC and ASEB on 18.11.2008 at NERLDC***

***office for further needful as above.***

### **C. 2. Frequent tripping of Kathalguri GBP**

During 31<sup>st</sup> OCC meeting, NEEPCO had informed that the reason of frequent tripping was found to be mainly due to contamination of gas. It had further informed that steps were taken by them to install a filter to check gas contamination. In this meeting, NEEPCO representatives presented the details of problem in a video file before the sub-Committee. It was explained by them that the phenomenon had been dominant during high temperature conditions. NEEPCO intimated that the filter installation work is expected to be completed by December 2008 and the problem would be overcome thereafter to a larger extent. It further intimated that Capital Overhaul for 3 units of 45 MW each is proposed to be undertaken during December 2008 to February 2009 following which the availability of the AGBP machines was likely to improve further.

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

### **C. 3. Preparation of generation targets for year 2009 - 10**

In 31<sup>st</sup> OCC meeting, the regional utilities were requested to furnish necessary details by 30<sup>th</sup> October, 2008 to NERPC and also NERPC vide letter No. 130/1/OCC/NERPC/2008/1234 – 23 dated 23<sup>rd</sup> October, 2008 had requested constituents in this regard separately. The utilities were requested to expedite availability of the related data. NEEPCO, NHPC, APGCL vide letters dated 6.11.2008, 10.11.2008 and 22.10.2008 had furnished the necessary information which was circulated in this OCC meeting. The sub-Committee noted details concerning maintenance schedule and the anticipated availability intimated therein (included at Annexure- C.3).

***The related information concerning the above was yet to be received from remaining utilities. The utilities were requested to expedite the same.***

## **D. NEW ITEMS**

### **D. 1.1 Pile foundation at location 43 & 44 of 400 kV Balipara – Ranganadi D/C line**

NERTS, POWERGRID representative intimated that the location 43 of the 400 kV Balipara – Ranganadi D/C line had collapsed on 3<sup>rd</sup> September, 2008 following change in course of river Dikrong by more than 200 mtrs. He said that the location No. 44 was also badly endangered and might collapse in case of another flash flood in the river. Further, the diversion of this section was not possible due to various constraints and without covering a large section due to reserve forests /railway tracks in the adjoining areas. One circuit of the line was restored immediately after collapse, using ERS; the second circuit was still remaining out and work is taken up for construction of temporary tower and is likely to complete by middle of December 2008, thereafter, both the circuits would become available.

In view of the above, NERTS, PGCIL proposed to cover locations Nos. 43 & 44 of this line for construction with pile foundation. PGCIL intimated that estimated cost for construction of towers with pile foundation at the above-mentioned two locations was approximately Rs 2.5 Crores. PGCIL intimated that timely taking up of this work would help completion before the next monsoon season.

***The sub-Committee discussed the matter and suggested that in view of above, PGCIL might submit the detailed proposal for discussion in TCC of NERPC and recommendation for approval by the NER Power Committee.***

### **D. 1.2 Transformer at Nirjuli Sub-station**

NERTS, POWERGRID representative intimated that the 10 MVA, 132/33 KV Transformer at Nirjuli S/S had failed on 27.05.2008 following a fault on 33 kV side in Arunachal Pradesh. This resulted damage on one phase of the transformer. He said that Arunachal Pradesh have spared a transformer for replacing the faulty phase and transformer is expected to be restored by 18<sup>th</sup> November 2008.

He further intimated that 4 nos. of 33 kV feeders under Arunachal Pradesh system connected to the transformer were subjected to innumerable transient tripping leading to severe stresses in the equipments in Nirjuli S/S of PGCIL. During the period from 01.04.2007 to 27.05.2008 when the PGCIL transformer failed, a total no of 246 transient tripping were recorded in these 33 kV feeders. POWERGRID suggested that in view of the prevailing situation the outage of the 10 MVA transformer may not be attributable to POWERGRID since the failure of above transformer w.e.f. 27.05.2008 till the date of its restoration.

***The sub-Committee discussed the matter and was of the view that due to frequent tripping of 33 kV feeders in the Arunachal Pradesh system, the State should review their existing configuration of EHV system which might require strengthening the network.***

***The sub-Committee further noted that as the transformer outage was due to reasons of frequent tripping of 33 kV feeders in Ar.P. System, the above-mentioned transformer outage period may not be attributed to PGCIL.***

#### **D. 2 Generation Planning ( ongoing and planned outages)**

The Sub-committee discussed status on ongoing forced/plan outages during the region and finalized schedule of plan outages for the generating units for November/December, 2008.

***The Maintenance Program for Generating Units proposed by NEEPCO for its generating stations for the month Nov/Dec. 2008 was discussed and finalized as given below:***

<b><u>Project &amp; Unit</u></b>	<b><u>Shutdown period</u></b>	<b><u>Purpose</u></b>
1. RHEP, #1	15.12.2008 to 30.12.2008 (15 days)	Annual planned maintenance
2. KHEP Stg – II	25.11.2008 to 10.12.2008	Annual planned maintenance
3. AGBP GTG #5	13.11.2008 to 08.12.2008 (25 days)	HGPI & Generator Overhauling

***The sub-Committee suggested that the completion of AOH work may be ensured as per the indicated schedule in view of the likely increase in winter load and the festival season.***

### **D. 3 Outage Planning for Transmission elements and related matters**

The sub-Committee discussed programme for transmission line outages for November/December, 2008 as proposed by PGCIL/Constituents were finalized as per Annexure – D.3

MeSEB vide Letter No. MeSEB/EE/SLDC/Tec-23/2008-09/1084 dated 01.11.2008 had requested that in the event of constraints in generation and transmission, MeSEB might be allowed to avail maximum permissible support from Khlieriat (PG) end during peak hour as drawl from Sarusajai gets restricted due to transformation constraints.

The sub-Committee discussed the matter and it was agreed that in the event of above transmission constraints and keeping in view secure operation of the grid, a permissible power flow from the proposed alternative path may be scheduled. NERLDC were requested to look into it the same accordingly.

Further, NERLDC also gave a detailed presentation on the bottlenecks in the existing 132 kV network pockets. NERLDC intimated that the following addition of transmission elements is under execution for strengthening the 132 kV grid pockets comprising of Manipur/Nagaland and Meghalaya, Mizoram, Tripura & South Assam sub-systems:-

#### **By POWERGRID:-**

1. 160 MVA 220/132 kV ICT at Kopilli (NEEPCO)
2. 132 kV Kopilli-Khandong S/c line with Zebra conductor.s
3. 100 MVA 220/132 kV ICT at Dimapur.
4. LILO of 132 kV Kohima- Dimapur(Nagaland) S/c line at Dimapur(PG).

#### **By Meghalaya:-**

Construction of 220 kV MISA-Byrnihat D/c line with 200 MVA, 220/132 kV ICT at 220 kV Byrnihat S/s

NERLDC indicated that with the above additions expected to be implemented by year 2009-10 the power transfer capability to the above 132 kV sub-systems is likely to improve from the present level of 160 MW to 475 MW thereby improving the availability of 132 kV pocket from the existing level of 345 MW to 660 MW.

The sub-Committee observed that in addition to the above, the system strengthening schemes and the generation linked schemes in NER slated for implementation in XI plan (2007-12) have been approved by the NER Power Committee in 6<sup>th</sup> NERPC meeting held on 8<sup>th</sup> August 2008 at Gurgaon.

***The members of the sub-Committee noted that timely implementation of these schemes would have considerable impact on upgrading the power transfer capability of EHV transmission network of North-Eastern Region. The sub-Committee appreciated the urgent need by all concerned utilities of the NE Region to endeavor towards fulfillment of the necessary pre-requisites required for timely and speedy implementation of the above schemes in the region.***

#### **D. 4 Review of Grid performance during October 2008**

The sub-Committee noted salient data concerning grid performance, Voltage profile and Frequency profile during the month of October, 2008 presented by the NERLDC.

#### **D 5 Major grid disturbances in the previous month (October, 2008)**

The sub-Committee noted that no major grid disturbance in the region was reported in October 2008.

## **D 6 Any other item**

**D 6.1** NEEPCO vide letter dated 20.10.2008 had requested that due to PT circuit problem at R.C.Nagar side on 132 kV R.C. Nagar-Tilla ckt 2 on 3.9.2008, the UI account for the corresponding week requires to be revised by taking SEM reading at Tilla end of ckt 2, as the SEM reading at R.C. end for that day had not been correct. NEEPCO intimated that the PT problem was immediately attended to and same was rectified w.e.f. 4.9.2008. Matter was discussed and it was agreed that UI account for the corresponding week may be revised as proposed above.

**D 6.2 NERLDC** indicated that the hydro reservoir levels of generating stations in region are on the reducing trend. It is imperative that maximum availability of thermal generation capacity may be ensured by the utilities in the coming months. ***The sub-Committee noted the same.***

**D 6.3** NEEPCO intimated that at some of the locations where SEMs installed need to be time synchronized with GPS clock as time drift is being observed. ***NERTS were requested to look into the same and may make arrangements for the same and intimate status.***

## **D. 7 Date and Venue of next OCC**

The 33<sup>rd</sup> OCC meeting of NERPC is scheduled to be held on 10<sup>th</sup> December, 2008 (Wednesday) at NERPC Conference Hall, Shillong.

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**List of Participants in the 32<sup>nd</sup> OCC meeting held on 11/11/2008**

Venue : NERPC Secretariat, Shillong

Sl. No	Name & Designation	Organization	Contact No. /e-mail ID
1	No Representatives	Arunachal Pradesh	
2	Sh. H. Hazarika, DGM	LDC, AEGCL (Assam)	9854809104
3	Sh.A.K. Saikia, Sr. Mgr	SLDC, AEGCL (Assam)	9864116176
4	Sh. P.Birendra Singh, AE,Transmission	P&E, Manipur	9436022941
5	Sh. D.J. Lyngdoh, AEE	SLDC, MeSEB (Meghalaya)	9863063375
6	Sh.M.K.War, AE	SLDC, (Meghalaya)	9436116496
7	Sh. H.Zonunsanga,EE	SLDC, Mizoram	9436156337
8	Sh. Saphnehzova,EE	(P) Circle Office,Mizoram	
9	No Representatives	Nagaland	
10	No Representatives	Tripura	
11	Sh. L.K.Kanungo, GM	NERLDC	9436302725
12	Sh. T.S.Singh, DGM	NERLDC	9436302720
13	N.R.Paul, CM	NERLDC	9436302723
14	Sh. S.K. Saha, Dy. Manager	NERLDC	9436335371
15	Sh. Sheikh Shadrudin, DM	NERLDC	9436335380
16	Sh.P.Krishnamurthy, Manager	NERLDC	9436302716
17	Sh. Utpal Sharma, CM	NERTS	9436302987
18	Sh. A.Patir,AGM (O&M)	NERTS	0364-2537326
19	Sh. Bhaskar Goswami, SM	NEEPCO	9436163983
20	Sh. B.R.Bhattacharjee, Mgr	NEEPCO	9436122456
21	Sh. K.K.Khongwar, DM	NEEPCO	9436110872
22	Sh.R.Bhuyan,Asst.Mgr	NEEPCO	09435339749
23	Sh. P.K.Mishra, Asst.Mgr	NHPC	09862653907
24	Sh. Manjit Singh, MS	NERPC	9436706436
25	Sh. B. Lyngkhai, AS	NERPC	9436163419
26	Sh.A.K.Jain, SE (Coml)	NERPC	0364-2520038
27	Sh.Satbir Singh, EE	NERPC	
28	Sh. Lalrinsanga, EE	NERPC	9436161886
29	Sh. S.M.Aimol, AEE	NERPC	9863311203
30	Sh. G. Medhi, AE	NERPC	9863317776

Sl. No	Name of T/L	S/D Date	S/D Time	Purpose	Areas/Feeder affected	Agency
1.	220 KV Misa – Mariani	14.11.08 & 15.11.08	08.00 hrs to 16:00 hrs (Daily)	AMP	Balipara – Bongaigon - I	PGCIL
2.	220 KV Misa – Dimapur - I	17.11.08 & 18.11.08			Balipara – Bongaigon - II	PGCIL
3.	220 KV Misa – Dimapur - II	19.11.08 & 20.11.08	08.00 hrs to 16:00 hrs (Continuous)	Railway Diversion Work	Halflong - Jiribam	PGCIL
4.	132 KV Aizawl – Kolasib	21.11.08	08.00 hrs to 16:00 hrs	AMP	Ranganadi - Ziro	PGCIL
5.	220 KV Samaguri – Balipara	19.11.08 & 20.11.08	08.00 hrs to 16:00 hrs (Continuous)	Shifting of tower at loc.149 due to river erosion	Samaguri – Balipara	AEGCL (ASEB)

Sl. No	NAME OF SUB-STATION/BAYS/ICT/ REACTOR	S/D Date	S/D Time	Purpose	Areas/Feeder affected	Agency
1.	400/220/33 kV, ICT Tie bay at Bongaigoan S/S	12.11.08 & 13.11.08	08.00 hrs to 16:00 hrs (Daily)	AMP		PGCIL
2.	33 KV Tertiary Reactor – I & its Bay at Bongaigoan S/S	14.11.08 & 15.11.08				PGCIL
3.	400/220/33 KV Bus – II at Bongaigoan S/S	17.11.08 & 18.11.08	08.00 hrs to 16:00 hrs (Continuous)	Railway Diversion Work		PGCIL
4.	400/220/33 KV ICT at Bongaigoan S/S	19.11.08	08:00 hrs to 16:00hrs	AMP	ICT	PGCIL
		20.11.08	09:00 hrs to 10:00hrs	AMP		
		21.11.08	09:00 hrs to 10:00hrs	AMP		
5.	220 KV Salakati – Birpara – I Bay at Salakati S/S	24.11.08 & 25.11.08	09:00 hrs to 10:00hrs			PGCIL
6.	220 KV Salakati – Birpara – II Bay at Salakati S/S	26.11.08 & 27.11.08	09:00 hrs to 15:00hrs			PGCIL

**Note:** The Utility taking shutdown as per above schedule shall confirm program to NERLDC one day before and co-ordinate with NERLDC just prior to taking the shutdown regarding prevailing of favourable grid conditions.

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