



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. NERPC/AS/OCC/2009/ 1465-1500

Date: 17th December, 2009

To

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

Sir,

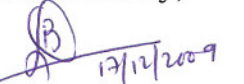
Sub: Minutes of the 45th OCC Meeting held on 11th December, 2009 at Agartala.

The Minutes of the 45th OCC Meeting of NERPC held on 11.12.2009 at “SLDC Conference Hall, TSECL, Agartala is enclosed for favour of kind information and necessary action please.

These minutes are also available on the website of NERPC www.nerpc.nic.in

Encl: As above

भवदीय / Yours faithfully,


बी. लिंखोई / B. Lyngkhoi
सहायक सचिव / Assistant 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. S.E. (Trans. & Dist), MeSEB Lumjingshai, Short Round Road, Shillong – 793 001
8. Head of SLDC, MeSEB, Lumjingshai, Short Round Road, Shillong – 793 001
9. Head of SLDC, Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
10. A.C.E. (Gen & Trans), Department of Power, Govt. of Nagaland, Kohima – 797 001
11. Head of SLDC, Department of Power, Dimapur, Nagaland
12. A.C.E. (Power-I), Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
13. Head of SLDC, Electricity Department, Govt. of Manipur, Keishampat, Imphal – 795 001
14. S.E. (Trans & Dist), Department of Power, Govt. of Mizoram, Aizawl – 796 001
15. Head of SLDC, Department of Power, Govt. of Mizoram, Aizawl – 796 001
16. Head of SLDC, TSECL, Agartala – 799 001
17. Chief Engineer(Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124

North Eastern Regional Power Committee

MINUTES OF THE 45th

OPERATION COORDINATION SUB-COMMITTEE MEETING OF NERPC

Date: 11/12/2009 (Friday)

Time: 10:30 hrs

Venue: "SLDC Conference Hall", TSECL, Agartala.

The List of Participants in the 45th OCC Meeting is attached at **Annexure - I**

Shri M.K.Chakraborty, General Manager (Tech), TSECL welcomed all the participants to the 45th OCC meeting. He appreciated the idea of holding OCC meeting on rotation within the region for cordial relationship & personal contacts for the benefit of the system. He wished that the meeting will bear a fruitful outcome. He then requested Shri B.K.Jain, Member Secretary, NERPC to chair & precede the meeting.

Member Secretary welcomed the participants to the 45th OCC meeting and expressed sincere thanks to all the Officers of TSECL for hosting the meeting and the good arrangements they have done. He expressed that the lean season is already approached, hydro generation is going down and the demand will go up due to cold whether, proper load management is very essential. He then briefed about the performance of the grid during the month of November, 2009.

Thereafter, he requested Shri P.D.Siwal, Superintending Engineer (O), NERPC to take up the agenda items for discussion.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 44th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

SE, NERPC stated that the minutes of 44th meeting of Operation Sub-committee held on 5th November, 2009 were circulated vide letter No. NERPC/AS/OCC/2009/3775 - 805 dated 10th November, 2009.

As no comment was received from any of the constituents, the minutes of the 44th OCC Meeting were confirmed.

ITEMS FOR DISCUSSION

B. Operational Performance & Grid Discipline during November, 2009.

SE, NERPC requested NERLDC to give their presentation on the grid performance for the month of November, 2009. NERLDC gave their presentation and the sub-committee noted the grid performance as follows:-

- i) **Average frequency** during November, 2009 was 49.89 Hz compared to 49.66 Hz for the previous month.
- ii) **Minimum frequency** in November, 2009 was 48.87 Hz (28.11.09 at 13:40 hrs) compared to 48.17 Hz for the previous month.
- iii) **Maximum frequency** was 50.58 Hz (22.11.09 at 14:09 hrs) as against 50.71 Hz in the previous month.
- iv) **System frequency** remained within permissible range of 49.2 Hz to 50.3 Hz for 94.24 % of the time, below 49.2 Hz for 0.17 % and above 50.3 Hz for 5.59 % of time as against the corresponding values of 94.67 %, 5.03% and 0.31 % in the previous month i.e. October, 2009.
- v) **Regional peak** demand in November, 2009 was 1624 MW as compared to 1609 MW in October, 2009 an increase of 0.93% over the previous month.
- vi) **Energy requirement** was 750.9 MUs in November, 2009 compared to 829.82 MUs in the previous month.
- vii) **Regional energy availability** in November, 2009 was 687 MUs compared to 739 MUs in the previous month- a decrease of 7.04 % over the previous month.
- viii) **Rise in demand met** was highest of (8.33 %) in Ar. Pradesh followed by Nagaland (5.62 %) and Mizoram (3.45 %) over the previous month.

- ix) **Drop in demand met** was recorded in Assam (4.26 %) and Tripura (0.63%) over the previous month viz. October, 2009.
- x) **Over Voltages** at 400 kV substations were observed at Bongaigaon, Balipara and Misa where maximum voltage observed was 431 kV, 429 KV and 444 KV respectively.
- xi) **Over Voltages** at 220kV S/S was observed at Misa (Max Voltage: 233 KV). Aizawl 132 kV S/S experienced **low voltage of 122 kV**.
- xii) **Regional Generation & Inter-regional Exchanges:** During the month of November, 2009 compared to October, 2009 is given below:

SN	Parameter	November 2009	October 2009
REGIONAL GENERATION & INTER - REGIONAL EXCHANGES (in MU)			
1	Total Generation in NER (Gross)	656.040	834.531
2	Total Central Sector Generation in NER (Gross)	413.460	541.080
3	Inter-Regional Energy Exchanges		
	(a) NER - ER	8.270	83.810
	(b) ER - NER	71.550	47.500
	(c) Net Import	63.280	- 36.310

The detail of grid performance during the month of November, 2009 is enclosed at **Annexure-II**.

The Sub-committee noted as above.

FOLLOW UP ACTION

C. 1. Installation of Under Frequency Load-shedding Relays (UFRs) in NER

During the 44th OCCM, the sub-Committee had requested NERPC to write once again to all the Head of Power Departments for identified & finalizing the list of feeders for installation of UFRs at the earliest. Accordingly, NERPC vide letter No: NERPC/AS/OCC/2009/3629 – 31 dated 12.11.2009 had written to all the Head of Power Departments (**copy at Annexure – C.1 (i)**) and the information is awaited. The information has been received from Nagaland only.

Meanwhile, Mizoram and Tripura have also furnished the list of feeders identified for installation of UFR during the meeting (**copy at Annexure – C.1 (ii)**). Tripura informed that the procurement of UFRs is under progress and it will take at least three months to implementation of the scheme.

Meghalaya representatives informed that the lists of feeders for installation of UFRs had been identified but yet to be finalized and the same would be intimated soon after finalization.

Assam informed that the work to identify is under progress and time consuming and it will take another two more months to furnish the list.

The sub-Committee requested all the remaining constituents to identify and finalize the list of feeders for UFR installation at the earliest.

C. 2. Non-functioning of SCADA in Arunachal Pradesh state

During the 42nd OCC meeting Ar. Pradesh had intimated that procurement of the faulty modem and handing it over to BSNL, Shillong would be completed in two months' time. Since no representative from Ar. Pradesh was present, the agenda item shall be taken up in the next OCC meeting.

The sub-Committee noted as above.

C. 3 Energy metering issues in NER

During the 44th OCC Meeting, PGCIL informed that the balance of 8 meters at Loktak would be completed by the end of December, 2009/January, 2010.

NERPC enquired from PGCIL about the progress in this regard.

PGCIL informed that meters are under type test at Bangalore and by last week of December, 2009 the exact status would be known. PGCIL assured that by January, 2010 they would be able to complete the installation of remaining meters provided the meters are received from Bangalore in time.

GM, NERLDC requested that apart from Loktak, additional meters should be installed at Dimapur & Kopili. PGCIL agreed to the same.

Tripura enquired about the status of de-installed meters. PGCIL informed that all these dismantling meters will be handed back to all the constituents as per their share.

Tripura stated that the de-installed meters will not be required by them and it would be better if PGCIL scrap all the meters. All the constituents also agreed with the view of Tripura.

Member Secretary requested PGCIL to send the proposal to all the NER constituent' States and after getting their consent the meters may either be scrapped or handed back to the constituents by PGCIL.

C. 4 Single Phase Auto-reclosure of Transmission lines.

During the 44th OCC meeting, PGCIL had furnished the list of lines compatible for installation of auto-reclosure at both ends for finalization of the scheme. **(Copy at Annexure – C.4).**

Member Secretary stated that in other regions single phase auto-reclosure scheme has been successfully implemented on 400 kV and 220 kV lines. Since, NE Region has predominantly 132 kV transmission lines, single phase auto-reclosure scheme would definitely provide secure & stable power supply in the region. He requested constituents to make the scheme operational.

Member Secretary enquired from PGCIL about the current status of CBs & Relays in respect to items where both ends are owned by PGCIL as per Annexure – C.4. PGCIL informed that some of the items have been included in the R&M Scheme and needs to be approved during the next NERPC meeting. The transmission lines at Sl. No. B 1 to 9 of Annexure – C.4 are owned by PGCIL but the 132 kV breakers are 3-phase gang operated and would require replacement by single phase breakers and breakers were only about 10 years old. If these breakers are to be replaced then replacement cost will have to be borne by the constituents.

Tripura stated that they do not agree with replacement of 3-phase gang operated breaker with single phase breakers if the cost is to be borne by constituents.

Other States also supported the views of Tripura.

Member Secretary enquired about the breakers on line ends which are with NHPC & NEEPCO. NHPC replied that replacement of breakers which pertains to NHPC in Annexure C.4 Sl. No. B.10 (Loktak – Jiribam II at Loktak end of NHPC) will be carried out but during the next Financial Year 2010-11.

NEEPCO informed that some breakers at their end have single phase auto-reclosure facility; however their operation has to be checked. Wherever, SPAR facility is not available the same shall be provided. NEEPCO also suggested joint inspection with PGCIL for the lines which are terminating in NEEPCO switchyard and PGCIL S/S for operationalization of SPAR scheme. PGCIL agreed to NEEPCO proposal.

Member Secretary requested NEEPCO & PGCIL to complete the exercise within a month and report the progress in next OCC meeting. Member Secretary also informed that status of the scheme shall be appraised to the TCC & NERPC. The issue regarding capitalization of cost of replacement of breakers by PGCIL shall also be put up for consideration of TCC/NERPC.

The sub-Committee noted as above.

C. 5 Special Protection Schemes (SPS) for Vulnerable 132 kV Pockets in NER.

Regarding, the 132 KV Manipur – Ningthoukhong line to be kept opened for SPS operation Manipur representative referred to the letter dated 13th November, 2009 given by the Chief Engineer (P), Govt. of Manipur which stated that Imphal (State) 132 kV sub-station is the nerve centre of State's power supply network. From the 132 kV bus of this sub-station, power is supplied to the 132 kV sub-stations at Yaingangpokpi (2x20 MVA) and Kakching (2x20 MVA). Another new sub-station with an installed capacity of 2x20 MVA is coming up at Kongba, construction of which is nearing completion. Power to this new sub-station will also be fed through Imphal (State) 132 kV sub-station.

The present installed capacity of Imphal (State) 132 kV sub-station is 3 x 20 MVA. Work for up grading the capacity to 3 x 30 MVA is going on. The sub-station receives power through Imphal (PG) and Ningthoukhong 132 kV sub-stations.

If Imphal – Ningthoukhong 132 kV line is kept open then the requirement of power for Imphal (State), Yaingangpokpi and Kakching 132 kV sub-stations cannot be transmitted through Imphal (PG) – Imphal (State) 132 kV S/C line alone. He therefore stated that keeping this line open will not be feasible.

NERLDC informed that this line is not required to be kept open all the time but during the Lean Hydro period only. Further they stated that this matter have been deliberated in detail during the special TCC meeting held on 3rd June, 2008 at Guwahati and subsequently in various OCC meetings. Based on the agreement by the constituents the scheme was formulated and PGCIL has already completed its portion of the scheme. Unless the line is kept open by Manipur the scheme will not be successful.

Manipur representative informed that he would apprise Power Dept. of Manipur about the discussion in OCC and the necessity of keeping line open during lean hydro season. He requested NERPC to write once again to Dept. of Power, Govt. of Manipur in this regard.

The Sub-committee noted as above.

C. 6 Preparation for “mock exercise” for disaster management

During the During the 44th OCC meeting, NERLDC had informed that the details of Nodal Officers i.e. names, designation, contact details etc. have been received from all the constituents except from Arunachal Pradesh & Manipur.

Manipur informed that the name of Nodal Officer from Manipur will be intimated shortly.

NERLDC informed that they have carried out successfully the mock exercise on the 8th December, 2009 for Ranganadi HEP (**Copy at Annexure – C.6**). NERLDC appreciated the co-operation extended by NEEPCO, Assam & Ar. Pradesh to make this exercise a success. NERLDC further stated that the same exercise will be carried out for Doyang HEP of NEEPCO & Loktak HEP of NHPC and subsequently for gas based stations also.

The sub-Committee noted as above.

C. 7 Shutdown of Bus – A at Kopili Switchyard.

PGCIL informed that the above shutdown has been carried out as per the decision in the 44th OCC meeting and the test charging of 100 MVA ICT has been completed and the now the system is put back on the existing 60 MVA ICT.

The sub-Committee noted as above.

D. NEW ITEMS

D. 1 Agenda from NERTS, POWERGRID

- i. PGCIL intimated that for completion of the new 132 kV bus extension & line bays at Kopili PS, shutdown of approximately 3 months will be required for the existing 60 MVA, 220/132 kV transformer & its associated bay. During this period it is proposed to interconnect the new 160 MVA transformer to the existing 132 kV Kopili – Khandong line so that connectivity between Kopili & Khandong is available. Two days shutdown of Kopili – Khandong line would be required for making this arrangement. The shutdown for this purpose is proposed in the first week of January, 2010. The exact dates shall be intimated by PGCIL after consultation with site engineers. However, shutdown shall be availed before 11th January, 2010.

NERLDC enquired from NEEPCO that any plan for taking shutdown in Kopili HEP. NEEPCO informed that they are planning to take shutdown for 3 units in Kopili HEP, however, the dates are yet to be finalized.

Member Secretary enquired from NEEPCO the reasons for taking shutdown. NEEPCO informed that due to acidic water most of the machines are severely damaged and shutdown is required for maintenance and replacement of damaged parts of machines.

NERLDC requested NEEPCO to take their shutdown after PGCIL completed their work so that power shortage in 132 kV pocket is minimized. Member Secretary requested NEEPCO to furnish the tentative dates for shutdown for Kopili HEP.

The sub-Committee noted as above.

- ii. PGCIL informed that AEGCL has not completed the gravelling work at Balipara in spite of several communications to them. Assam informed that work has already started and likely to be completed soon.

The sub-committee requested Assam to take up the matter and complete the job at the earliest.

- iii. PGCIL informed that due to non-functioning of 48V DC supply at Kopili HEP the PLCC link with Kopili HEP was out of service since January, 2007. NEEPCO informed that they will look into the matter and restore the PLCC link soon.

The sub-Committee noted as above.

- iv. PGCIL informed that the ETI PLCC link of AEGCL between Dimapur (PG) – Mariani is not functioning for more than one year. He requested Assam to restore the link at the earliest.

Assam informed that they are looking into this matter and the same would be replaced with new system. The work is expected to be completed by June, 2010.

The sub-Committee noted as above.

D. 2 Agenda from TSECL

- i. TSECL has requested that prior circulation of agenda items for OCC meetings are required to be furnished for preparation by the constituents before attending the OCC meeting.

NERPC noted the request by TSECL and agreed that the circulation of agenda before OCC meeting is a must. NERPC requested all the constituents to submit their agenda points if any before the 30th or 31st of the month. Agenda shall be put on the website of NERPC as circulation by post is usually delayed.

The sub-Committee noted as above.

- ii. Tripura enquired from PGCIL the CT ratio provided at PGCIL Kumarghat end. PGCIL informed that the CT ratio at present is 400/1 (upgradable to 600/1).

The sub-Committee noted as above.

- iii. Tripura enquired from PGCIL the current status of Kopili – Khandong Ckt – II. PGCIL informed that the delay is due to non-receipt of clearance from Ministry of Environmental & Forest. PGCIL informed that the work is likely to be completed by April, 2010. NERLDC requested that the CT ratio at Khandong may be kept either 400/1 or 600/1 so that power flow is not affected. PGCIL agreed.

The sub-Committee noted as above.

- iv. Tripura requested NERLDC that Day - ahead entitlement in respect of CS Generating is to be ensured before 11 AM on daily basis. NERLDC replied that the matter has already been taken care.

The sub-Committee noted as above.

- v. Tripura requested that Optimum utilization of State generation stations is required so that backing down of generation & flaring of gas is avoided. Tripura further stated that even when their transmission lines are capable to draw/inject power but they were being asked by NERLDC to back down their generation resulting in flaring of gas. NEEPCO also agreed with the views of Tripura and stated that it would be very difficult for Gas Based Station to do back down as gas supply is curtailed by gas company or gas has to be flared. NERLDC requested Tripura to furnish the details so that they can analyze their difficulties. Tripura agreed.

The sub-Committee noted as above.

D. 3 State-wise anticipated peak demand/requirement, shortage for November, December, 2009 and January, 2010.

In respect of above, the sub-Committee reviewed the anticipated peak demand/energy requirement and the sub-Committee finalized the same for the month of December 2009, January & February, 2010 as given below.

December, 2009**January, 2010****February, 2010**

S.No.	State	Peak Demand (MW)	Peak Availability (MW)	Peak Demand (MW)	Peak Availability (MW)	Peak Demand (MW)	Peak Availability (MW)
1	Arunachal Pradesh	85	75	80	75	80	70
2	Assam	840	760	845	730	830	700
3	Manipur	100	90	95	80	90	80
4	Meghalaya	290	260	297	220	280	200
5	Mizoram	70	65	70	50	65	45
6	Nagaland	95	90	90	75	85	70
7	Tripura	145	130	140	131	135	125
	Region	1625	1470	1585	1330	1565	1290

The sub-Committee noted as above.

D. 4 Generation Outage Planning (ongoing and planned outages)

NEEPCO informed that unit no.2 of Ranganadi HEP would be taken under shutdown from 16.12.2009 to 30.12.2009 for Annual Planned Maintenance & unit No.3 of Ranganadi HEP from 10.01.2010 to 25.01.2010 for the same purpose. No other proposal for planned outage for generating units was envisaged for December, 2009/January, 2010. NEEPCO also intimated that they want to take shutdown of Kopili HEP unit no.4 from 1st week of January, 2010 for a period of 20 days.

NERLDC requested NEEPCO to provide their entire schedule for monitoring in the real time operation.

The sub-Committee approved the programme.

NEEPCO further intimated that they wanted to avail shutdown for Kopili Stage – II for 45 days w.e.f. 1st January, 2010.

The Sub-committee requested NEEPCO to avail their shutdown after PGCIL completed their ICT replacement at Kopili, thereafter NEEPCO can take their shutdown of Koplili Stage – II w.e.f. 11th January, 2010 onwards for a period of 45

days. The Sub-committee also requested PGCIL to complete their work before 11th January, 2010.

The sub-Committee noted as above.

D. 5 Outage Planning of Transmission elements

The Sub-committee discussed the programme of outages for transmission lines as proposed by PGCIL for December, 2009. The same is enclosed at **Annexure D. 5.**

The sub-Committee approved the programme.

D. 6 Estimated Transmission Availability Certificate (TAC) for the month of November, 2009.

The estimated Transmission System Availability for the month of November, 2009 furnished by PGCIL was intimated as **99.2610%** as per details at **Annexure D. 6.** The constituents were requested to examine the outage details (Copy of CD were circulated during the meeting) indicated by PGCIL before 20.12.2009 so as to ensure issue of certification by NERPC before the stipulated date i.e. 31.12.2009.

The sub-Committee noted as above.

D. 7 Major grid disturbances in the previous month (October , 2009)

NERLDC informed that there was no major grid disturbance during the month of November, 2009.

The Sub-committee noted as above.

D. 8 Any other Items

- i. PGCIL informed that they have carried out measurement of Total Harmonic Distortion (THD) in some sub-stations in NER and they have found out that in most cases the THD is more than 20% (with 5th Harmonics predominant) which is very high. As per IEEE the THD should not be more than 4% to ensure quality power in grid and longer life of transformers. PGCIL informed that in order to take corrective measures, PGCIL have engaged CPRI Bangalore to study the causes and remedy measures. The gist of test results is enclosed at **Annexure D.8 (i)**. PGCIL requested constituents to co-operate in helping to provide information if necessary.

The sub-committee informed that since the matter has already been taken up with CPRI the outcome given by them will be discussed further in the next meeting.

The Sub-committee noted as above.

- ii. NERLDC informed that functioning of RTU/SLDC is very important for the smooth operation of the system.

NERPC informed that this issue will be discussed during the next TCC/RPC meeting.

The Sub-committee noted as above.

- iii. Shri Dipak Ganguly, Chairman-cum-Managing Director, TSECL enquired about the current status of Loktak – Jiribam II from Manipur representative.

Manipur informed that the work is under progress and by the end of December, 2009 the line is expected to be put in service.

The Sub-committee noted as above.

D. 9 Date and Venue of next OCC

It is proposed to hold the 46th OCC meeting of NERPC on 8th January, 2009 (Friday) at Guwahati. The exact venue will be intimated in due course.

The meeting ended with thanks to the Chair.

List of Participants in the 45th OCC meeting held on 11/12/2009**Venue : “SLDC Conference Hall”, TSECL, Agartala**

Sl. No	Name & Designation	Organization	Contact No. /e-mail ID
1.	No Representative	Arunachal Pradesh	
2.	Sh. H. Hazarika, DGM, LD&C	AEGCL (Assam)	09435401172
3.	Sh. B.C.Sharma, EE (SCD – II)	Manipur	09436020911
4.	Sh. T. Gidon, AEE, SLDC,	Meghalaya	09436326178
5.	Sh. M. War, AEE, SLDC,	Meghalaya	09436116496
6.	No Representative	P&E, Mizoram	
7.	Sh. Bendang Longkumer, EE (E)	P&E, Nagaland	09436004642
8.	Sh. M.K.Chakraborty, GM (T)	Tripura	09436457391
9.	Sh. M. Debbarma, AGM (C&SO)	Tripura	09436120134
10.	Sh. Ratan Das, DGM (SOD)	Tripura	09436457031
11.	Sh. T.S.Singh, A.G.M	NERLDC	09436302717
12.	Sh. Shadrudin, Mgr	NERLDC	09436335380
13.	Sh. P. Kanungo, CM (OS)	NERTS	09436302823
14.	Sh. D. Bhattacharya, HOP, AGTP	NEEPCO	03812391269
15.	Sh. B.R.Bhattacharjee, Mgr.	NEEPCO	09436122456
16.	Sh. Amit Das, Mgr.	NEEPCO	09435566542
17.	Sh. Y.Surjamani Singh, Mgr (E)	NHPC	09436894857
18.	Sh. B.K.Jain, MS	NERPC	09436706436
19.	Sh. P.D. Siwal, SE (Coml	NERPC	09436998378
20.	Sh.B. Lyngkhoi, AS	NERPC	09436163419
21.	Sh. S.M.Aimol, AEE	NERPC	09863311203

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ANNEXURE-D.5

The Shutdown Programme for the month of December, 2009 as approved in the 45th OCC Meeting held at Agartala on 11.12.2009 is as follows:

Sl No.	Name of T/L	S/D Date	S/D Time	Purpose	Areas/Feeder affected	
1	132KV D/C Loktak-Jiribam-II	14.12.09	08:30 Co-ordination with NERLDC	AMP	Loktak-Jiribam-II	
2	132KV Aizawl-Kolasib	15.12.09 & 16.12.09	08:00 Hrs to 16:00 Hrs		Aizawl-Kolasib	
3	132KV Badarpur-Jiribam	17.12.2009			Badarpur-Jiribam	
4	400KV Kathalguri-Mariani	23.12.09 & 24.12.09			Kathalguri-Mariani	
5	132KV Khandong-Khliehriat-I	15.12.09			Stringing of Kopili-Khandong-II	Khandong-Khliehriat-I
6	132KV Khandong-Khliehriat-II	17.12.09				Khandong-Khliehriat-II
7	220KV Dimapur-II Bay at Misa	15.12.09 & 16.12.09(Half)			Replacement of CB	Misa-Dimapur-II
8	50MVAR Bus Reactor-I at Bongaigaon	13.12.09 & 14.12.09		08:00 Hrs to 14:00 Hrs	AMP	Bus Reactor-I
9	220KV D/C Kopili-Misa	14.12.09	07:00 Hrs to 16:00 Hrs	Stringing activities of Misa-Byrnihat line	D/C Kopili-Misa	
10	132KV S/C Samaguri-Lanka (AEGCL)	14.12.09			Samaguri-Lanka	
11	220KV Langpi-Sarusajai(Ghy) TL (AEGCL)	13.12.09			07:00 Hrs to 17:00 Hrs	Langpi-Sarusajai
12	132KV S/C Banghjap-HPCL(Jagiroad) TL (AEGCL)	15.12.09	Banghjap-HPCL			

ANNEXURE-D.5

S/D Programme for Powergrid Sub-stations/Bays/ICTs/Reactors:-

Sl No.	Name of the Sub-Station/Bays/ICT/Reactor	S/D Time	S/D Time	Purpose	Areas/Feeder affected
1	132KV Daporijo Bay at Ziro	15.12.09			132KV Ziro-Daporijo
2	132KV Bus Coupler Bay at Ziro	16.12.09			
3	400KV ICT Main Bay at Balipara	23.12.09 & 24.12.09	09:00 Hrs to 15:00 Hrs	AMP	NIL
4	400KV ICT Bus Reactor Tie Bay at balipara	14.12.09 & 15.12.09			
5	400KV Main Bus-I at Balipara	16.12.09 & 17.12.09	08:00 Hrs to 16:00 Hrs		
6	400KV Main Bus-II at Balipara	18.12.09 & 19.12.09			
7	400KV Misa-I main Bay at Balipara	21.12.09	09:00 Hrs to 15:00 Hrs		
8	400KV Misa-II main Bay at Balipara	22.12.09			