



भारत सरकार Government of India
शक्ति विभाग Ministry of Power
उत्तर पूर्वी क्षेत्रीय शक्ति आयोग
North Eastern Regional Power Committee
मेघालय राज्य आवास वित्त सहकारी समाज लि. भवन
Meghalaya State Housing Finance Co-Operative Society Ltd. Building
नंग्रिम हिल्स, शिल्लोंग - 793003
Nongrim Hills, Shillong - 793003.



(आई.एस.ओ.: 9001.2000)

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No. NERPC/AS/Committee/2010/3726-87
To,

Date: 25th February, 2011

1. Hon'ble Chief Minister & Minister of Power, Govt. of Mizoram, Aizawl - 796 001
2. Hon'ble Minister of Power, Govt. of Arunachal Pradesh, Itanagar - 791 111
3. Hon'ble Minister of Power, Govt. of Assam, Guwahati - 781 006
4. Hon'ble Minister of Power, Govt. of Nagaland, Kohima - 797 001
5. Hon'ble Minister of Power, Govt. of Manipur, Imphal - 795 001
6. Hon'ble Minister of Power, Govt. of Tripura, Agartala - 799 001
7. Member (GO&D), CEA, Sewa Bhavan, R.K. Puram, New Delhi - 110 066
8. Secretary (Power), Govt. of Arunachal Pradesh, Itanagar - 791 111
9. Secretary (Power), Govt. of Assam, Dispur, Guwahati - 781 006
10. Secretary (Power), Govt. of Manipur, Imphal - 795001
11. Secretary (Power), Govt. of Meghalaya, Shillong - 793001
12. Secretary (Power), Govt. of Mizoram, Aizawl - 796001
13. Secretary (Power), Govt. of Nagaland, Kohima - 797001
14. Secretary (Power), Govt. of Tripura, Agartala - 799001
15. Chairman, ASEB Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
16. Chairman, MeSEB, Lumjingshai, S.R. Road, Shillong - 793 001
17. Chairman & Managing Director, TSECL, Agartala - 799001
18. Chairman & Managing Director, NEEPCO Ltd., Lower New Colony, Shillong - 793 003
19. Director (Finance), NHPC Ltd., NHPC Complex, Sector-33, Faridabad - 121 003
20. Director (Op.), POWERGRID, Saudamini, Plot No. 2, Sector-29, Gurgaon, Haryana - 122 001
21. Director (Operation), PTC, NBCC Tower, 15 Bhikaji Cama, Place, New Delhi - 110022
22. Director (Coml.), NTPC Ltd. NTPC Bhawan, Scope Complex, Institutional Area, Lodhi Road - 110 003
23. Executive Director (SO), NLDC, B/9, Qutub Institutional Area, Katwaria Sarai, New Delhi - 110016
24. Managing Director, AEGCL, Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
25. Managing Director, APGCL, Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
26. Managing Director, DISCOM (CA), Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
27. Managing Director, DLF, Guwahati - 781 001

Sub: Minutes of 10th TCC & 10th NER Power Committee held at Aizawl.

Please find enclosed herewith the minutes of 10th TCC & 10th NERPC meetings held at "State Guest House", Aizawl, Mizoram on the 8th & 9th February, 2011 respectively for your kind information and necessary action. Post copy will be sent shortly.

आपका / Yours faithfully,

(P. D. Siwal / P. D. Siwal)

I/C 02040000 / Member Secretary

Copy for kind information to:-

1. PS to Chairman, NERPC and Hon'ble Minister of Power, Govt. of Meghalaya, Shillong - 793 001
2. PS to TCC Chairman, NERPC & Director (Dist), MeECL, Lumjingshai, Shillong - 2.

Copy to TCC Members:-

1. Director (Tech.), NEEPCO Ltd., Lower New Colony, Shillong-793 003.
2. Director (Tech.), TSECL, Agartala - 799001
3. Member (Tech.), ASEB, Bijulee Bhawan, Paltan Bazar, Guwahati -781001
4. Executive Director, NERTS, PGCIL, Lapalang, Shillong - 793006
5. Executive Director (Comml.), NEEPCO Ltd., Lower New Colony, Shillong-793003.
6. Executive Director (O&M), NEEPCO Ltd., Lower New Colony, Shillong-793003.
7. Executive Director (Comml.), NHPC, NHPC Office Complex, Faridabad-121003.
8. Executive Director (O&M), NHPC, NHPC Office Complex, Faridabad-121003.
9. GM, NERLDC, Lapalang, Shillong - 793006
10. AGM (O&M), NERTS, POWERGRID, Lapalang, Shillong – 793006
11. Chief Engineer (GM), CEA, 6th Floor, Sewa Bhawan, R.K.Puram New Delhi-110066.
12. CGM (LDC), SLDC Complex AEGCL, Kahelipara, Guwahati-781019.
13. Chief Engineer (E Zone), Dept. of Power, Govt. of Arunachal Pradesh, Itanagar-791111.
14. Chief Engineer (W Zone), Dept. of Power, Govt. of Arunachal Pradesh, Itanagar-791111.
15. Engineer-in-Chief, (P&E), P&E Dept., Govt. of Mizoram, Aizawl-796001.
16. Chief Engineer (Power), Dept. of Power, Govt. of Nagaland, Kohima-797001.
17. Chief Engineer, Loktak HE Project, NHPC, Komkeirap, Manipur-795124.
18. Chief Engineer (Power), Dept. of Power, Govt. of Manipur, Imphal – 795 001.
19. Chief Engineer, AEGCL, Bijuli Bhawan, Paltan Bazar, Guwahati – 781 001
20. Chief Engineer, APGCL, Bijuli Bhawan, Paltan Bazar, Guwahati – 781 001
21. Chief Engineer, DISCOM (CA), Bijuli Bhawan, Paltan Bazar, Guwahati – 781 001
22. Chief Engineer, DISCOM (UA), Bijuli Bhawan, Paltan Bazar, Guwahati – 781 001
23. Chief Engineer, DISCOM (LA), Bijuli Bhawan, Paltan Bazar, Guwahati – 781 001
24. SE (T&D), MeSEB, Lumjingshai, S.R. Road, Shillong-793001
25. Head of SLDC, MeSEB, Lumjingshai, S.R. Road, Shillong-793001
26. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar-791111
27. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur
28. Head of SLDC, Dept. of Power, Govt. of Manipur, Keishampat, Imphal-795001
29. Head of SLDC, P&E Dept., Govt. of Mizoram, Aizawl-796001
30. Head of SLDC, TSECL, Agartala – 799001

Special Invitee(s):

31. Chairperson, CEA, Sewa Bhawan, R.K.Puram, New Delhi – 110066
32. Member (Power Systems), CEA, Sewa Bhawan, R.K.Puram, New Delhi – 110066
33. Secretary, North Eastern Council, Nongrim Hills, Shillong – 793 003
34. Adviser (Power), Planning Commission, Yojana Bhavan, Rafi Marg, New Delhi-110001.
35. Member Secretary, ERPC, 14 – Golf Club Road, Tollygunge, Calcutta – 33
36. Member Secretary, NRPC, NRPC Complex, 18-A, S.JS.S. Marg, Katwaria Sarai, New Delhi – 16
37. Member Secretary, WRPC, MIDC Area, Marol, Andheri (E), Mumbai – 93
38. Member Secretary, SRPC, 29 – R.C. Cross Road, Bangalore – 560 009
39. C.E.O, OTPC, 1st Floor, Mahindra Towers, 2A, Bhikaji Cama Place, New Delhi – 110066
40. Director (Coml.), NTPC Ltd, NTPC Bhawan, Core -7, Scope Complex, 7 – Institutional Area, Lodi Road, New Delhi – 110 003
41. Director, NETC, 1st Floor, Corporation Tower, AMBIS Mall Complex, NH-8, Gurgaon – 122001.
42. CEO, NVVNL, Core 5, 3rd Floor, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi – 110 003


I/C 02/03/04/05/06/07/08/09/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/ Member Secretary

Summary Record of Discussions

10th Technical Coordination Committee

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10th North Eastern Regional Power Committee Meeting

The 10th TCC meeting was held on 8th February 2011 at "State Guest House," Aizawl, Mizoram. The meeting was hosted by Department of Power, Government of Mizoram.

The list of participants is enclosed at **Annexure - I.**

Proceedings of the 10th TCC meeting

The meeting started with the welcome address by Shri C. L. Thangliana Engineer-in-Chief, Dept. of Power, Govt. of Mizoram. He welcomed all TCC members of NER Power Committee and said that Dept. of Power, Mizoram was honored by the opportunity provided to them by the NER Power Committee to host the 10th TCC & RPC meetings of NERPC at Aizawl. He wished all the participants a pleasant stay. He requested all the participants to participate in the discussion so that the meeting bears a fruitful outcome.

Thereafter, Shri C.D. Saio, TCC Chairman & Director (Distribution), Me. ECL gave welcome address.

Shri B.K.Jain, Member Secretary NERPC on behalf of NERPC welcomed all the TCC members and the participants to the 10th TCC meeting of NERPC. He thanked the officers of Dept. of Power, Govt. of Mizoram for making excellent arrangements for comfortable stay of the members and participants of the meeting.

Before taking up the agenda item, Member Secretary requested NERLDC to make a presentation on the performance of NER grid during the last one year. NERLDC in their presentation highlighted the performance of regional grid in regards to

frequency profile, availability of power and demand in various states, performance of generating stations, reservoir levels, export/import of power to/from Eastern Region, Market participation of NER States and update on Point of Connection tariff based on new CERC Regulations . Presentation by NERLDC is at **Annexure-II.**

Thereafter, agenda items were then taken up with the permission of Chairman, TCC.

The TCC meeting was concluded with the vote of thanks by Sh. L. Pachuau, Chief Engineer (Distribution), Dept. of Power, Govt. of Mizoram.

Proceedings of the

10th North Eastern Regional Power Committee Meeting

The 10th NERPC meeting was held on 9th February, 2011 at "State Guest House," Aizwal, Mizoram. The meeting was hosted by Department of Power, Government of Mizoram.

The list of participants is enclosed at **Annexure - III.**

The meeting commenced with the welcome address by Sh. Vanhela Pachuau, Chief Secretary, Govt. of Mizoram followed by lighting of lamp by Shri Lal Thanhawla, Hon'ble Chief Minister & I/C of Power, Govt. of Mizoram, Er. A.T. Mondal, Hon'ble Power Minister of Meghalaya & Chairman, NERPC, Shri Lal Thanzara, Parliament Secretary (Power), Govt. of Mizoram & Shri. B.K. Jain, Member Secretary, NERPC.

The Hon'ble Chief Minister of Mizoram and Chairman, NERPC addressed the meeting. The Hon'ble Power Ministers of Arunachal Pradesh, Assam, Manipur, Nagaland & Tripura could not attend the meeting due to some important engagement. The speeches of Hon'ble Power Ministers of Manipur & Tripura were taken as read.

Hon'ble Chief Minister, Govt. of Mizoram in his address stressed upon early completion of ongoing Power projects in NER so that the region would prosper and the acute shortage of power faced by this region would overcome. He also expressed concerned about the prolong delay in the restoration of 132 KV Loktak – Jiribam –I owned by Manipur. The neighboring States of Mizoram, Tripura, Meghalaya & South Assam who are drawing from this line are compelled to draw power from 132 KV Loktak – Jiribam – II only which results in frequent tripping of the line due to overload thereby forcing the affected States to reduce the quantum of power irrespective of the total availability in the NER.

The full text of the speech of Hon'ble Chief Minister of Mizoram is enclosed at **Annexure - IV.**

Hon'ble Power Minister, Govt. of Meghalaya & Chairman NERPC in his address stated that we are all aware that power demand is always on the increasing trend in all the states in NER. At present the major problems encountered by the North Eastern States are, inter alia, inadequate generating capacity, the skewed thermal-hydro mix of the presently available generating capacity, transmission constraints mainly due to inadequacy of transmission network in the Region and due to non-existence of vital transmission links and long outage of important elements in the network. It is heartening to note that progress have been made in the execution of the ongoing hydro and thermal Projects in NER by Central Sector and other Agencies with special mention of the BTPS and Palatana projects at Assam and Tripura respectively. The timely commissioning of these projects along with the strengthening of the transmission systems would certainly transform the power scenario in the region and usher in a new era in the economic development of the NER states. It should also be the duty of this forum to take up with the Government of India to expedite the arrangement for funding of the transmission Projects.

The full text of speech of Hon'ble Power Minister, Govt. of Meghalaya & Chairman NERPC is enclosed at **Annexure - V**.

The texts of speech of Hon'ble Minister of Power, Shri Phungzathang Tonsing, Govt. of Manipur and Sri Manik Dey, Govt. of Tripura are endorsed at **Annexure - VI & VII** respectively.

Thereafter, Member Secretary, NERPC took up the agenda items for discussions with the permission of Chairperson.

Record Notes of Discussions

of the 10th TCC & 10th North Eastern Regional Power Committee Meeting(s)

ITEM NO. 1 Confirmation of the minutes of 9th TCC and 9th NERPC meetings held on 11.08.2010 and 12.08.2010 at Shillong.

Deliberation of TCC

Member Secretary, NERPC stated that The minutes of the 9th TCC and 9th North Eastern Regional Power Committee (NER Power Committee) meetings held on 11.08.2010 & 12.08.2010 respectively at Shillong were circulated vide letter no. NERPC/AS/Committee/2010/2458-529 dated 24.08.2010.

No observations or comments were received from any constituents on the above Minutes of the meetings and the TCC confirmed the minutes of the 9th TCC meeting.

Deliberation of the RPC

The RPC confirmed the minutes of 10th NERPC meeting.

ITEM NO. 1.1	Follow-up actions on discussion of 9th NER Power committee meetings.
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Status on follow up of the decisions of the 9th NERPC meeting is as discussed below:

ITEM NO. 1.1.1	Special Protection Scheme for North Eastern Region:
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During the 9th RPC meeting, it was intimated by NERLDC that the scheme would be implemented by January, 2011.

The item has been followed up in OCC meetings and during the 58th OCC meeting held at Shillong on 10.01.2011, AGM, NERLDC informed that after commissioning of 2nd circuit of 132 KV Kopili – Khandong line the scheme has to be modified.

Deliberation of the TCC:

Member Secretary requested NERLDC to give a presentation on the modified scheme proposed by them.

NERLDC gave presentation on modified Scheme which envisages that 132 kV Loktak-Ningthouthong line should be tripped instead of 132 kV Imphal(PG)-Imphal(Manipur) line as proposed earlier whenever 132 kV Dimapur-Imphal line trips. The detail presentation is enclosed at **Annexure - 1.1.1**.

Regarding feasibility for implementation, POWERGRID informed that if the existing PLCC equipments were operational, it would take about one month to implement the scheme otherwise if new equipment have to be procured it would take one year for implementation of the scheme including the time of procurement.

Member Secretary requested POWERGRID to test the existing equipment within a month and report in the OCC meeting. It was decided that progress shall be monitored in OCC meetings.

TCC agreed to the revised scheme.

Deliberation of the RPC

The RPC approved the modified scheme and noted as above.

ITEM NO. 1.1.2	Single-Phase Auto-Reclosure of Transmission Lines.
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The matter was followed up regularly in various OCC meetings and during the 58th OCC meeting Power Grid informed that relay installation has been completed in some locations and in some locations the work is under progress. The entire work is envisaged to be completed in all respect by the end of March, 2011. Present Status of Auto-Reclosures in POWERGRID Lines is as under.

A. IN SERVICE

Sr No.	Name of the Line	Remarks
1	400kV Misa - Balipara-I&II	In service
2	400kV Balipara - Bongaigaon- I&II	In service
3	400kV Bongaigaon - New Siliguri- I&II	In service
4	220kV Misa - Dimapur-I&II	In service
5	220kV Kathalguri - Misa	In service
6	220kV Kathalguri - Mariani	In service
7	220kV Mariani - Misa	In service
8	220kV Misa - Kopili # III	In service
9	220kV Salakati - Birpara - I & II	In service
10	132kV Dimapur - Doyang - I&II	In service
11	132kV Dimapur - Imphal	In service
12	132kV Salakati - Geylepu	In service

B. NOT IN SERVICE

Sr No.	Name of the Line	Remarks (POWERGRI D's Gang Operated CBs)
1	132kV Aizawl - Kumarghat	Not in service
2	132kV Badarpur - Kolasib	Not in service
3	132kV Kolasib - Aizawl	Not in service
4	132kV Badarpur - Jiribam	Not in service
5	132kV Badarpur - Khlieriat	3-Phase ARS adopted (Under observation)
6	132kV Badarpur - Kumarghat	Not in service
7	132kV Badarpur - Badarpur	Not in service
8	132kV Kumarghat- R C Nagar	Not in service
9	132kV Khandong - Khliehriat # I	Not in service
10	132kV Khandong - Khliehriat # II	Not in service
11	132kV Khliehriat (PG) - Khliehriat (Me.ECL)	3-Phase ARS will be adopted after replacement of MOCB by March'11
12	132kV Jiribam - Loktak II	Not in service
13	132kV Gohpur - Nirjuli	Not in service
14	132kV Agartala - Agartala D/C	Not in service

C. NOT IN SERVICE (Other End problem)

Sr No.	Name of the Line	Remarks Not in service at other end
1	400kV Balipara - Ranganadi # I&II	RHEP, NEEPCO
2	220kV Kopili - Misa # I & II	KHEP, NEEPCO
3	220kV Salakati - BTPS - I & II	BTPS, AEGCL
4	220kV Balipara - Samaguri	Samaguri, AEGCL
5	132kV Aizawl - Zemabawk	Zemabawk, P&E, Mizoram
6	132kV Khandong - Haflong	KHEP, NEEPCO
7	132kV Khandong - Kopili	KHEP, NEEPCO
8	132kV Loktak - Imphal # III	Loktak, NHPC
9	132kV Ranganadi- Ziro	RHEP, NEEPCO

D. SINGLE PHASE AUTO RECLOSURE will be in service (After replacement of DPR & MOCB by POWERGRID)

Sr No.	Name of the Line	Remarks
1	220kV Misa - Samaguri # I&II	Target March'11
2	132kV Haflong - Jiribam	Target March'11
3	132kV Jiribam - Aizawl	Target March'11

E. SCHEME NOT REQUIRED (SHORT LINE)

Sr No.	Name of the Line	Remarks
1	132kV Imphal - Imphal	Scheme Not Available

POWERGRID proposes to replace all existing 3-ph gang operated 132kV CBs on all Lines & TBC-Circuit Breakers with Circuit Breakers (CBs) suitable for 1/3 - Phase Auto Reclosures in all POWERGRID s/s including remote end of lines to facilitate 1/3-Phase Auto-reclosing of lines progressively. Further in all existing & future projects in NER, all EHV Line CBs may be provided with auto-reclosing. All constituents indicated at Para- C above, are requested to enable Auto-reclosing facility in a time bound manner and confirm the Time-frame for the same.

Deliberation of the TCC:

Regarding Table 'C' above the time schedule for various activities as informed by constituents is given below and it was decided that progress of the work would be monitored in the OCC meetings.

Sr. No.	Name of the Line	Ownership	Time Schedule of implementation
1	400kV Balipara - Ranganadi I&II	RHEP, NEEPCO	NEEPCO informed that SPAR scheme is in service. PGCIL and NEEPCO to verify the same within a month time.
2	220kV Kopili - Misa # I & II	KHEP, NEEPCO	NEEPCO will procure the CBs under R&M Scheme and implement within six months
3	220kV Salakati - BTPS - I & II	BTPS, AEGCL	Within one months
4	220kV Balipara - Samaguri	Samaguri, AEGCL	Within six months
5	132kV Aizawl - Zemabawk	Zemabawk, P&E, Mizoram	Within six months
6	132kV Khandong - Haflong	KHEP, NEEPCO	NEEPCO will procure the CBs under R&M Scheme and implement within six months
7	132kV Khandong - Kopili	KHEP, NEEPCO	NEEPCO will procure the CBs under R&M Scheme and implement within six months
8	132kV Loktak - Imphal # II	Loktak, NHPC	Within three months
9	132kV Ranganadi- Ziro	RHEP, NEEPCO	Within six months

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 1.1.3	Installation of Line Reactor at Kathalguri end of Misa - Kathalguri Line.
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During the 9th NERPC meeting, it was agreed that POWERGRID will execute the scheme on behalf of NEEPCO as deposit work. Cost of reactor shall be recovered by NEEPCO through tariff as per CERC norms.

The issue has been followed up in OCC meetings and during the 58th OCC meeting held on 10.01.2011 at Shillong. PGCIL informed that the cost estimate has been finalized and the same has been conveyed to NEEPCO. The Estimated cost as indicated by POWERGRID is ` 4.58 Crores.

ITEM NO. 8.2	Amended Agenda for Installation of Line Reactor at Kathalguri end of Misa - Kathalguri Line - POWERGRID
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Subsequently, in view of LILO of one Circuit of Kathalguri - Misa line at new Mariani (PG) station with provision of one 20MVAR Bus Reactor and considering future Transmission system being established as part of Pallatana, Bongaigaon Projects, the requirement of Reactive Compensation at Kathalguri end of Kathalguri - Misa line has been revised to 20 MVAR (rated 245kV) instead of 31.5 MVAR proposed earlier. Accordingly, POWERGRID has revised the cost estimate to ` 4.444 Crores and the same shall be furnished to NEEPCO shortly.

Deliberation of the TCC:

TCC agreed to the proposal and approved the revised cost estimate of ` 4.444 crores and recommended to RPC for approval.

Deliberation of the RPC

The RPC endorsed the recommendation of TCC.

ITEM NO. 1.1.4	Transfer facility in Bus Bar arrangement
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The issue has been followed up in OCC meetings and during the 58th OCC meeting held on 10.01.2011, Sr. Manager, NEEPCO intimated that transfer bus facility is operational at Doyang. Further, space requirement for bus transfer facility at Ranganadi has to be examined and the same would be intimated.

CGM, LD&C, Assam informed that order for equipments for Samaguri & Mariani have already been placed and the work would be started soon. The progress of the work would be intimated in OCC meeting.

Deliberation of the TCC:

CGM (LD&C), Assam intimated that the transfer bus facility in Samaguri & Mariani is in progress and the work will be completed within one month. NEEPCO informed that due to space constraints it was not possible to implement the scheme at Kathalguri and Ranganadi power stations.

Keeping in view the space constraints it was decided scheme may not be implemented at Ranganadi and Kathalguri power stations.

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 1.1.5	Installation of Circuit Breaker in the 132/33 KV Naharlagun S/S of Arunachal Pradesh
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The issue has been followed up in OCC meetings and during the 58th OCC meeting held on 10.01.2011, Arunachal Pradesh informed that installation of Circuit Breaker & equipments have been completed in all respects.

Deliberation of the TCC:

TCC noted as above.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 1.1.6	Status of 132 KV Kopili – Khandong 2nd Ckt.
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The construction of 2nd circuit of 132 KV Kopili – Khandong line has been discussed regularly in every OCC meetings. During the 58th OCC meeting, PGCIL informed that the 1st stage forest clearance has already been obtained from Govt. of Assam and the same has been forwarded to Regional MOEF, Shillong. The final forest clearance is expected very soon. The line is in operation using ERS.

Deliberation of the TCC:

TCC requested Assam to help POWERGRID in getting the forest clearance at the earliest. Assam agreed. POWERGRID informed that till the forest clearance was obtained the line would continue to be in service on ERS.

Deliberation of the RPC

Chairman, NERPC enquired from POWERGRID the time to complete the above line after getting the forest clearance. ED, NERTS, informed that it would take about three months to complete the line after receiving the forest clearance.

The RPC noted as above.

ITEM NO. 1.1.7	132 kV Loktak – Jiribam Line Ckt – I
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During the 57th OCC meeting, Manipur informed that the construction work of 132 KV Loktak – Jiribam line was under progress and the work from Loktak to Rengpang had been completed. Only a portion from Rengpang to Jiribam (about 39 KM) was yet to be completed.

The Sub-committee enquired from Manipur representative if the Sub-station was available at Rengpang and also if any load could be connected to Rengpang S/S.

Manipur representative informed that he would look in to the matter and intimate the status at the earliest.

Deliberation of the TCC:

ACE, Manipur informed that the line has been charged upto Rengpang S/S on 08.01.2011. However, due to security problem the remaining portion of 39 km is yet to be completed although all the materials have already been procured. Further he informed that line will be utilized by loading at Rengpang and Tamenglong S/S. They have requested State Govt. to provide security for completion of the line.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 1.1.8	Unified Load Dispatch Centre (ULDC) Scheme for NER
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In the 9th NER Power Committee Meeting, a committee comprising from POWERGRID, Assam, Meghalaya and Tripura was formed as given below to pursue with DONER for reimbursement of the money related to State portion.

POWERGRID	:	Sh. P. Kanungo
Assam	:	Sh. J. Bose
Meghalaya	:	Sh. T. Passah
TSECL	:	Sh. M. Debbarma

Deliberation of the TCC:

TCC reconstituted the committee as below to pursue with DoNER:

- 1) Mr. K. Marbarniang, CE, MeECL : Convener of the committee
- 2) Mr. M. Debbarma, AGM, TSECL : Member
- 3) Mr. J. K. Baishya, Sr. Mgr. AEGCL : Member
- 4) Mr. P. Kanungo, CM, PGCIL : Member

Deliberation of the RPC

The RPC endorsed the recommendation of TCC and the progress would be intimated in the next RPC meeting.

ITEM NO. 1.1.9	Setting-up/Up-gradation of SLDCs in NER:
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In the 9th NER Power Committee Meeting, the four States viz. Ar. Pradesh, Mizoram, Manipur & Nagaland had agreed to the proposal sent by POWERGRID for preparation of DPR for establishment of SLDC system in their states. Assam, Meghalaya & Tripura were requested to expedite their consent regarding up-gradation requirements of the existing SLDC systems under ULDC project in order to consolidate the requirements of all the states for preparation of DPR and proceeding further in execution of these projects. The status as given during the 9th NERPC meeting is given below:

- Arunachal Pradesh : Consent for preparation of DPR & advance payment received by POWERGRID. The DPR is under preparation.
- Mizoram : Consent for preparation of DPR received by POWERGRID. Advance payment yet to be received.
- Manipur & Nagaland : Consent for preparation of DPR yet to be received.
- Meghalaya : Consent for preparation of DPR yet to be received.

Deliberation of the TCC:

- Arunachal Pradesh : POWERGRID has prepared the DPR and already sent to AP. AP was advised to take necessary action for arranging fund for the scheme.
- Mizoram : Advance payment would be released after getting fund.
- Manipur & Nagaland : Manipur already paid advance payment for DPR. Nagaland would intimate the status shortly.
- Meghalaya : Meghalaya would execute the scheme on their own.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 2.0	Agenda Items related to Tripura (TSECL)
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ITEM NO. 2.1(i)	Constraints in evacuation of power in 132 KV pocket (Khliehriat – Badarpur Link):
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Tripura has informed that once the 132 KV Kopili – Khandong 2nd Ckt is completed the congestion in 132 KV pocket would decrease, however, another congestion

problem has cropped up in 132 KV pocket (Khliehriat – Badarpur) and this has been experienced by Tripura during the last few months where evacuation of power is restricted. Tripura requested PGCIL to prepare a new scheme through PSDF funding for construction of another 132 KV line between Khliehriat – Badarpur to remove this constraint.

Deliberation of the TCC:

Since, transmission scheme associated with Pallatana GPS is also under progress, Khandong-Khliehriat-Badarpur link may not be required after completion of scheme.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 2.1 (ii)	Construction of 2nd Ckt between Kumarghat (PG) and P.K. Bari (TSECL):
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Tripura has proposed construction of 2nd 132 KV Transmission Line between Kumarghat (PGCIL), and P.K. Bari (TSECL) 132 KV sub-station (Length: 5 KM) along with associated bays. Tripura requested PGCIL to prepare a scheme for the above with funding from Power System Development Fund (PSDF).

Deliberation of the TCC:

TSECL was advised to prepare and submit detailed justification in support of the scheme. Matter would be referred to CEA for study and comments. Matter shall be discussed in next TCC/RPC meetings after receiving comments of CEA.

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 2.2	Construction of 400 KV D/C Transmission Line from P.K. Bari to Surjamaninagar (initially to be charged at 132 KV):
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Tripura informed that the scheme is proposed to be funded under the World Bank assistance. The line is immediately required after commissioning of Pallatana Project by OTPC. This line provides redundancy as and when required and also act

as Inter-state transmission link and give reliability to NER grid. Considering the importance and urgency of work, PGCIL may take up the work under PSDF funding.

Deliberation of the TCC:

As the said line was under the scope of TSECL, it was clarified to Tripura that funding from PSDF would not be possible and TSECL has to arrange the fund on their own.

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 2.3	Proposal for NER Transmission and Sub-transmission strengthening:
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During the 8th NERPC meeting held on 11th & 12th January, 2010 the issue was discussed and POWERGRID had intimated that Detailed Project Report (DPR) has been submitted to DoNER.

Deliberation of the TCC:

POWERGRID intimated that DPR has been submitted to DONER in Jan'08 and DONER/MoP has approached Ministry of Finance for funding through World Bank. World Bank wanted to assess the position of respective States before funding since funds would be released to individual State.

Deliberation of the RPC:

The RPC noted as above.

ITEM NO. 2.4	Flaring of Natural Gas consequent to backing down of generation – proposal for Resource Optimization thereof:
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Tripura informed that for the preceding 6/7 months backing down of State generation (gas thermal) is occurring during off-peak hours (mostly in the night time) due to surplus situation and high system frequency. States are unable to

schedule through either bilateral arrangements or power exchange. Huge flaring of natural gas is taking place. Utilities are forced to pay the gas supplying companies under the Minimum Guaranteed Off-take (MGO) clause @90% irrespective of productive utilization of gas. With the recent hike in APM price of natural gas utilities are facing huge financial liabilities under such circumstances. The problem is further compounded with the UI capping regulations. As a result the power system operation is entering into a regime of unproductive operation similar to pre-ABT.

Deliberation of the TCC:

It was decided to refer the item No. 2.4 above to RPC.

Deliberation of the RPC:

CMD, TSECL stated that the price of buying gas from GAIL has increased tremendously from Rs. 7.5 Crores/month to present buying rate of Rs. 15 Crores/month due to upward revision of APM price of gas and the MGO has been increased from 80% to 90% irrespective of productive utilization of gas. He opined that not only Tripura would bear the burden of price hike but other utilities which operate gas based power stations would face the same problem in future. He requested the forum to take up the matter with GAIL to revert back the MGO contract as before i.e. 80%.

Chairman, NERPC informed that a group of Power Ministers of NER has met the Hon'ble Union Minister of Petroleum & Natural Gas and has already submitted a Memorandum to him to roll back the increased APM price of gas. He informed that the Hon'ble Union Minister of Petroleum & Natural Gas had assured to look into the matter and the reply from Petroleum Ministry was awaited. He stated that the matter would be followed up again with Union Petroleum Minister, GOI.

ITEM NO. 2.5	UI Capping for under drawal:
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Electricity is a commodity which cannot be stored but to consume instantly. The corresponding value in terms of money generated also to be exchanged without parking. But the UI capping rate for under drawal below 10% has blocked the

earning opportunity of state utilities when the situation is favorable for seller market. There is no mechanism to reciprocate and compensate the state utilities when the situation is favorable for buyer market at higher frequency and no off-taker is available.

Deliberation of the TCC:

TCC recommended that aggrieved constituents may file petition with CERC for modification of UI regulations.

Deliberation of the RPC:

The RPC endorsed the decision of TCC.

ITEM NO. 3.0	Agenda items related to North East Transmission Company Ltd. (NETC)
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ITEM NO. 3.1	Deed of Adherence of North East Transmission Company (NETC) not signed by Meghalaya and Nagaland:
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The 400kV D/C Palatana - Bongaigaon transmission system is being developed by North East Transmission Company (NETC). The Share holders Agreement of NETC was signed by all the NER Constituents, except Meghalaya & Nagaland. During the 9th NERPC meeting Meghalaya had requested NETC to take up the issue with Meghalaya Govt. as equity would be contributed by Meghalaya Govt. Principal Secretary (P), Govt. of Nagaland also informed that the matter is pending with Planning & Finance Dept. Govt. of Nagaland. Meghalaya and Nagaland have still not signed the Deed of adherence, in spite of numerous reminders

Deliberation of the TCC:

Meghalaya would sign and pay equity contribution by March, 2011

Nagaland would intimate the status as early as possible.

It was decided that NETC may wait till March'11 for signing of deed of adherence by Meghalaya and Nagaland and after end of March'11 equity share offered to them would revert to OTPC.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 3.2	Requirement of Equity Contribution of Assam, Tripura & Mizoram:
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The quarter-wise projection of requirement of equity contribution of Assam, Tripura and Mizoram up to June 2012 quarter, to maintain debt equity ratio of 80:20 (₹ 1416 crore: ₹ 354 crore) as per the requirement of Share Holder Agreement as given in **Annexure- 3.2**.

Deliberation of the TCC:

Assam, Tripura and Mizoram agreed to make their contribution at the earliest.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 4.0	Agenda items related to Assam
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ITEM NO. 4.1	Under Generation of CSGS of NER during 2009-10:
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Assam stated that during 2009-10 the generation of central sector generating stations except AGTPP of NER is below the expected level. Station-wise expected energy based on installed capacity/ design energy vis-à-vis actual availability of energy for Assam is shown below:

Station	Ex-Bus Energy (MU)	% Share of Assam	Expected Energy (MU)	Actual Energy available (MU)
RHEP	1494.563	43.328	648.320	441.586
KHEP	1040.361	53.455	556.125	372.741
KHEP-II	85.437	46.615	39.826	36.449
KHANDONG	274.874	56.277	154.691	84.246
DOYANG	224.968	43.742	98.406	75.373
Total NEEPCO(H)	3120.203		1497.368	1010.395
AGBPP	1988.987	56.465	1123.077	965.336
AGTPP	582.785	45.178	263.290	289.583
Total NEEPCO(Th.)	2571.765		1386.367	1254.919
NHPC	444.864	29.415	130.856	109.782

Because of such low availability due to under generation by CSGS of NER, Assam was forced to draw additional power from NTPC stations of ER and other sources by around 317 MU than its normal schedule of 518.255 MU.

The low generation is also not due to external factor which is beyond the control of the generating companies. On account of lower availability from NER sources, though the payment liability of Assam reduced to NER Generators by ` 6.357 (` 1.94+ ` 3.697+ ` 0.72) Crore but additional power drawl from NTPC has increased its total payment liability to NTPC up to ` 224.42 Crore including additional liability of ` 160.0 Crore. Thus the average cost of power has gone up from of ` 1.48 per KWH based on design energy to ` 2.01 per KWH.

As the state power tariff is regulated by the State Regulator the state utility is facing difficulty in realizing the amount from the ultimate consumers in absence of reasonable explanation from the concerned generating companies.

Deliberation of the TCC:

TCC noted that there was less generation during 2009-10 in NEEPCO hydro stations in comparison to design energy.

It was also agreed that such shortfall in generation affects SEBs as well as generators. However, low generation in hydro stations depends on hydrological factors like in-flow in reservoirs, rainfall etc and was beyond the control of generators.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 4.2	Annual Design Energy of KHEP (4 x 50MW) for 2004-2009:
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Assam stated that CERC vide its order dated 19.02.2008 in Petition No. 76/ 2007 has approved the tariff of KHEP for the period of 2004-2009. While approving the tariff the Commission also approved the annual design energy of the project as 1186.14 MU. This design energy was enhanced from by 216.26 MU on account of commissioning of KHEP Stage-II. But the NERPC secretariat had been releasing

monthly REA for 2004-2009 on the basis of 969.88 MU. NERPC however is considering annual design energy of KHEP at 1186.14 MU from April' 2009 onwards in monthly REAs. The matter came as follow-up issue in the 13TH commercial committee meeting wherein it was decided that NEEPCO would pursue the matter with CEA to get the design energy of 1186.14 MU approved by August, 2010 and thereafter NERPC Secretariat would revise the REAs for the relevant period. CERC in its aforesaid order advised NEEPCO to take all out efforts to obtain the approval of CEA as regards the design energy of KHEP.

Deliberation of the TCC:

Member Secretary informed that NERPC secretariat has carried out a comparative study for the period from April, 2004 to March, 2005 to ascertain the impact of revision of design energy of KHEP on energy charge and capacity charge of KHEP. As the impact was found to be minimal, it was agreed that the study would be given to NEEPCO for analysis at their end and NEEPCO would inform NERPC secretariat within one month their observations if any. Thereafter design energy of KHEP for 2004-09 period would be revised to 1186.14 MU as approved by CERC. The comparative study which was carried out by NERPC Secretariat was handed over to NEEPCO.

Deliberation of the RPC

The RPC endorsed the recommendation of TCC

ITEM NO. 4.3	Erroneous energy reading against 11KV Bordumsa feeder between Assam and AP:
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The CT/PT set on Bordumsa-Ketengtong feeder was replaced jointly by Assam and AP with a new set with Multiplying Factor (MF) of 2000 on 07.07.2008 following its damage due to thundering. In absence of timely communication from the field level, the commercial office of APDCL (ASEB) was sending meter readings to Arunachal Pradesh (AP) on the basis of previous MF of 1000. As a result, the consumption shown from August, 2008 onwards was half of actual consumption made by Arunachal Pradesh. Thus there was under billing of 597.180 MWH of Central Sector (CS) energy to AP, which in turn was billed to Assam.

The matter was placed in the 14TH commercial committee meeting where it was decided that Assam and AP would bilaterally settle the energy account of the period and intimate NERPC who in turn would evolve a suitable billing mechanism to settle the billing issue.

Arunachal Pradesh may reconcile energy accounting of the respective period so that the matter could be settled amicably with the guidance of NERPC and without revision of monthly Energy Accounts (REAs) and CS billing of such a long period.

Deliberation of the TCC:

AP and Assam agreed to settle the energy account for the referred period bilaterally. Subsequently, both would approach NERPC Secretariat for settlement of billing.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 4.4	Receivables of ASEB from NER States:
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During the lean period of 1992 to 1998 NER states did over drawl of power from NER grid. ASEB is to receive following outstanding amounts from NER states on account of drawl of ER/NTPC energy out of deemed drawl of ASEB from ER/NTPC. The state-wise outstanding on account of above are:

State	Principal	Surcharge	Total
A. P.	0	4,68,28,102.00	4,68,28,102.00
Manipur	0	3,18,01,053.00	3,18,01,053.00
Mizoram	0	0	
Nagaland	2,15,85,629.00	4,57,80,165.00	6,73,65,794.00
Tripura	0	62,68,195.00	62,68,195.00
Total	2,15, 85,629.00	#13,06,77,515.00	13,06,77,515.00

Surcharges are not updated figures.

All NER states except Nagaland have already cleared the principal portion of the outstanding.

It is also worth mentioning that all the states have requested for waiver of the surcharge portion. After realization of all principal outstanding from all the states

the matter of waiver of surcharge amounts would be placed before the ASEB board meeting.

Deliberation of the TCC:

Nagaland agreed to make payment by May/June'11.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 5.0	Agenda items related to POWERGRID
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ITEM NO. 5.1	Security Assistance for maintenance of Transmission Lines in Insurgency Prone Area in Manipur:
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During 9th NERPC meeting, Principal Secretary (P), Govt. of Manipur assured that security would be provided to POWERGRID for attending forced outages. However, for routine maintenance & patrolling POWERGRID should make request in advance. Executive Director NERTS informed that they would need security for routine maintenance maximum 4 times in a year. However, request of POWERGRID for deemed availability was not agreed to.

In the month of October'10, two incidents have taken place when POWERGRID line maintenance staff were manhandled in the Manipur portion of 132 kV Jiribam-Aizawl line and in 132 kV Jiribam - Loktak line sections.

GM (O&M)-POWERGRID met Hon'ble Power Minister, Govt. of Manipur and senior Law Enforcing authorities and apprised them about the security scenario.

Inadequate maintenance led to Six (6) trip events in respect of 132 kV Jiribam-Aizawl line and three (3) trip events in 132 kV Jiribam - Loktak-II line, since OCT' 2010.

In view of the above members may reconsider the outages of above lines as deemed available.

Deliberation of the TCC:

The proposal for deemed availability by POWERGRID was not agreed to by TCC.

For security, the matter was referred to RPC.

Deliberation of the RPC

Executive Director, NERTS informed that inspite of pursuing the matter with Govt. of Manipur, the security for maintenance of lines has not been provided. He further informed that in normal cases the line could have been restored within one day, however, due to non-availability of security, restoration in many instances has been delayed. He requested the Committee to re-consider the decision for deemed availability.

ACE, Manipur informed that they would again take up the matter with Govt. of Manipur.

Member Secretary, NERPC suggested that a maximum time limit for deemed availability may be specified.

Assam, Tripura, Meghalaya & Nagaland generally agreed to the proposal of deemed availability for maintenance of Loktak – Jiribam line. Manipur reiterated that since the matter would be taken up by them with Govt. of Manipur, the proposal for deemed availability of POWERGRID may be taken up in next RPC meeting. Ar. Pradesh & Mizoram also agreed with Manipur.

After detailed deliberation the Committee decided to defer the agenda item to the next TCC/RPC meeting.

The RPC noted as above.

ITEM NO. 5.2	Outstanding Dues of POWERGRID against NER Constituents:
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The total outstanding as on 31.12.2010, are--

SI No	Name of the Constituent	Total outstanding as on 31.12.2010 (₹ in Cr.)
1	Ar. Pradesh	2.30
2	ASEB (Assam)	45.10
3	Manipur	17.36
4	MeECL (Meghalaya)	10.48
5	Mizoram	-0.09
6	Nagaland	6.02
7	TSECL (Tripura)	2.95
TOTAL		84.12

Deliberation of the TCC:

All Constituents agreed to take necessary action to liquidate outstanding dues at the earliest.

Deliberation of the RPC

The RPC noted as above.

EM NO. 5.3	Status of LC required by NER Constituents :
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Amount of available LC is lower than the required LC amount as on 31.12.2010:

SI No	Constituents	LC (` in Lakhs)	
		Required	Available
1	ASEB (Assam)	1169.07	1150.00
2	MeECL (Meghalaya)	269.45	250.00

Deliberation of the RPC

ASEB and MeECL agreed to take necessary action for enhancement of LC.

The RPC noted as above.

ITEM NO. 5.4	Measurement of Harmonics
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During 9th NERPC meeting, TCC requested POWERGRID to carry out procurement and commissioning of filters for NER and submit proposal to CERC for funding of the same from PSDF. POWERGRID informed that they do not have technical expertise in design of filters and would like to engage a consultant. They would revert back with a definite proposal later. This was agreed to.

Meanwhile POWERGRID approached CPRI for designing the filters. CPRI has submitted offer to POWERGRID, amounting to ` **1.75 lacs**.

Deliberation of the TCC:

MS, NERPC advised POWERGRID to prepare a complete proposal including consultancy, procurement of filters, installation etc. and same may be submitted for funding from PSDF after approval of NERPC.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 5.5	Failure of 132/33KV Transformers at ZIRO & Nirjuli Substations
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- **Failure of 5MVA, 132/33KV, 1-Phase Transformer at 132/33KV ZIRO SS**

During 9th NERPC meeting, Ar. Pradesh informed that they have already initiated various measures to reduce no. of faults on 33kV lines. However presently, the frequency of trippings on 33kV Feeders of AP has not reduced. During the year 2010 the total no. of trippings, is as below:

- (a) 33kV Kurung- Kamey Feeder : 262 nos.
- (b) 33kV Old Ziro Feeder : 192 nos.
- (c) 33kV Kimin Feeder : 394 nos.

- **Failure of 10 MVA, 132/33 kV Nirjuli ICT:**

The frequency of trippings on 33kV Feeders of AP has not reduced. During the year 2010 the total no. of trippings, is as below:

- (a) 33kV AP1 (feeder – 1) : 52 nos.
- (b) 33kV AP2 (feeder – 2) : 141 nos.
- (c) 33kV AP4 (feeder – 4) : 40 nos.

10 MVA ICT-I was commissioned at Nirjuli in 1991. Transformer failed on 27.05.2008. Order has already been placed by POWERGRID for 10 MVA ICT for Nirjuli S/S and same is expected by March' 2011.

During various OCC and RPC meeting POWERGRID is raising the issue of frequent faults in 33kV System of Arunachal Pradesh. Such faults are fed through the transformers of POWERGRID at Nirjuli and Ziro. Already transformer at Nirjuli and Ziro suffered failure. Arunachal may take corrective measures to arrest inception of faults in downstream network.

Deliberation of the TCC:

POWERGRID emphasized gravity of the situation due to further increase in number of trippings. Ar. Pradesh agreed to take necessary action urgently to reduce no. of trippings.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 5.6	Non-operation of Switchgear and Protection Scheme in DOP, Manipur
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During 9th NERPC meeting, Manipur informed that most of old outdated equipments would need replacement and this process would take some time and they are taking necessary action in the matter.

Deliberation of the TCC:

Manipur representative informed that they would take up R&M of Yurembam S/S after commissioning of Imphal-II (Kongba) S/S.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 5.7	Requirement of Spare Reactors & Transformers at POWERGRID Substations
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POWERGRID had proposed procurement of -

REACTOR : One no. 63 MVAR, 420 kV Voltage Class Shunt Reactor

TRANSFORMERS : One No. 100 MVA 220/132 kV Transformer

: One No. 16 MVA 132/33 kV Transformer

: One No. 5 MVA 132/33kV (1-Phase) Transformer during 9th

NERPC meeting, as Regional Element of North Eastern Region and recover the charges as part of transmission charges.

The Committee agreed to the proposal of POWERGRID technically and suggested POWERGRID to approach CERC for funding through Power Development Fund (PSDF).

The matter is being taken up with PSDF, however as the procurement & supply take 1.5 to 2 years, NERPC may approve the proposal, and in case it is not agreed by PSDF, same shall be treated as Regional Asset of NER so that it will take care of all un-certainties.

Deliberation of the TCC:

TCC agreed to procurement of transformers from PSDF only but did not agree for the same being considered as Regional asset.

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 5.8	Substation Equipment for Disaster Management/"ERS Substations":
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During 9th NERPC meeting, POWERGRID proposed to procure two (2) ERS Substations – one (1) of 400kV level and one (1) of 132kV level. The Committee agreed to the proposal of POWERGRID and asked them to get it funded from PSDF. POWERGRID agreed.

A petition for procurement of 2 Nos of ERS Sub-Stations {One No. 400 kV (3x105MVA-Single Phase) & One No. 132 kV (30MVA/3x10MVA-Single Phase)} for funding through PSDF for NER is being filed in CERC.

Deliberation of the TCC:

TCC noted as above but advised POWERGRID to submit the proposal to PSDF managing committee as per the revised regulation of CERC.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 5.9	Replacement of defective Insulator Strings in Trans lines under POWERGRID in NER:
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POWERGRID is experiencing frequent failure of Insulators in various lines of NER. Considering the gravity of the situation, as a preventive measure, POWERGRID is carrying out PID Scanning of various transmission lines in North Eastern Region. During the scanning it has been observed that considerable nos. of line insulator strings of various lines, have punctured discs which if not replaced immediately may cause massive disturbance of the NER grid in near future.

To prevent the same, POWERGRID has taken up a plan to replace all these defective insulators in phased manner in different lines. Accordingly, POWERGRID is proposing to carry out the works by taking shutdown of the lines ensuring the following:

- a) Scheduled generation of the Generating Stations is not affected.
- b) Parallel connectivity is available, so that the transmission capacity of the link is not affected.

In view of the above and as the matter is beyond the control of POWERGRID, POWERGRID requests the shut down hours for replacement of insulator strings as Deemed Available.

Deliberation of the TCC:

The technical necessity of replacement of insulator strings was agreed to by beneficiary states and also agreed to allow deemed availability to POWERGRID to enable them to recover their full fixed charges. However they proposed that incremental additional availability due to benefit of deemed availability would not be utilized by POWERGRID to earn incentive.

Deliberation of the RPC

ED NERTS, POWERGRID stated that there may be audit objection if 2 sets of availability certificates were issued and requested for one availability certificate based on deemed availability. Since consensus on the issue could not be reached it was decided to defer the matter to next TCC/RPC meeting and POWERGRID was requested to bring a more detailed proposal.

ITEM NO. 5.10	Strengthening of Jumpers of 132 kV Aizawl - Kumarghat Line:
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In order to avoid backing down of Generation at Tripura, higher rating of CT (600/1A) and double jumpering of 132kV Aizawl - Kumarghat line is required to be provided. Though POWERGRID is procuring higher rated CTs but without strengthening of jumpers, additional power cannot be evacuated. This matter was discussed in 57th OCC Meeting to consider this line deemed available during execution of the job.

Deliberation of the TCC:

Same as 5.9 above.

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 5.11	Commercial Operation Of 100MVA, 220/132kV Transformer at Dimapur:
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During 8th TCC / NERPC Meetings (MOM Item No. 2.1) it was agreed for declaration of commercial operation of 100MVA, 220/132KV TRANSFORMER AT DIMAPUR w.e.f., 1st February 2010. However due to some technical problem, the transformer could not be put in service soon after commissioning. Now, the transformer and the associated GIS are finally charged and loaded w.e.f. 19.12.2010 and accordingly, the DOCO of the transformer will be from 1st January 2011.

Deliberation of the TCC:

TCC noted the same.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 5.12	Strengthening of Telecom Network in NER:
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A request has been received by POWERGRID from Ministry of Development of Northern Eastern Region for laying of Optical Fiber Cables on Transmission & Distribution lines of POWERGRID and the State Electricity Boards for strengthening of Telecom Network in NER.

It may be mentioned that this is a good opportunity to provide Telecom Link upto small towns (up to 33kV), utilizing the ROW of POWERGRID and Constituent-States. Effort may be made by NERPC to get funded the Optical Fiber Cables and its equipment through Universal Service Obligation Fund of DoT.

In view of the above, the proposal of utilizing POWERGRID and Constituents' States' ROW may be agreed in-principle. A committee of Constituents, POWERGRID and NERPC may be constituted to prepare the Scheme and take up with DoT through DoNER for implementation.

Deliberation of the TCC:

All Constituents agreed to the proposal in principle except Assam. Assam representative stated that they would give their view within a week. On receipt of

view of Assam, same would be forwarded to POWERGRID by NERPC Secretariat. However, even if Assam does not agree to the proposal, it would be implemented in other States of NE Region.

Deliberation of the RPC

GM, BSNL who was present only in RPC meeting informed about the salient features of the scheme as being implemented by them in Assam from USO fund by laying optical fiber cables. Since, the present proposal envisages use of right of way of transmission lines clarification on terms of funding, role of various agencies in laying of cables over transmission lines and subsequent ownership of cables, revenue sharing with telecom service providers was required.

It was decided that the proposal may be discussed in the next RPC meeting and POWERGRID may get complete details from DoNER/DOT

ITEM NO. 5.13	Construction of Substations under State Schemes associated with Pallatana/Bongaigaon Transmission System:
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a). Construction of Hailakandi S/s is to be expedited by AEGCL. It is understood that land for this Substation is under acquisition by them. However as an interim arrangement, the proposal to facilitate the connectivity of Silchar Substation in absence of Hailakandi s/s, Loop In and Loop Out (LILO) of Panchgram-Dullavchera 132kV S/c line of AEGCL near Hailakandi line is proposed to be connected with Silchar – Hailakandi 132 KV D/C line so as to form Silchar- Panchgram and Pallatana – Dullavcherra 132 KV link.

Deliberation of the TCC:

The proposal of LILO was agreed to by AEGCL. POWERGRID confirmed that the LILO would be completed within the commissioning schedule of U-I of Pallatana i.e. Dec'11.

Deliberation of the RPC

MD, OTPC stated that unless the LILO at Hailakandi S/S is completed it would not be possible to commission the Pallatana Unit – I as power generated from this unit shall not be fully evacuated.

POWERGRID informed the time schedule as below:

1. 132 KV D/C Silchar – Badarpur would be completed by Nov'11
2. 132 KV D/C Srikona (Assam) – Srikona (PG) would be completed by Nov'11, hence, 280 MW would be easily evacuated.
3. 132 KV D/C Silchar – Hailakandi and LILO work at Hailakandi S/S the work would be completed by April/May, 2012 stating that due to low lying areas it would not be possible to work during monsoon.
4. 132 KV Srikona – P.K. Bari by April/May, 2012

The RPC noted the time schedule for completion of various lines and Sub-station and advised POWERGRID to complete the lines and substations as per schedule indicated above.

b). To facilitate connectivity at Srikona:

AEGCL may allocate the bay space for construction of the bays by POWERGRID.

Deliberation of the TCC:

POWERDRID informed that bay space has already been allocated.

Deliberation of the RPC

The RPC noted as above.

c). Construction of Surajmaninagar Substation: It is noted that TESCL, shall award the work by 16.01.2011.

TESCL may indicate the commissioning schedule of this Substation, for enabling connectivity of Pallatana-Surajmaninagar 400kV D/c (to be initially operated at 132kV level)

Deliberation of the TCC:

TSECL informed commissioning schedule as March'12.

Deliberation of the RPC

ED, NERTS informed that 400 KV D/C Pallatana- Surajmaninagar would not be completed as mentioned in TCC i.e. Nov'11. The work would be completed by March, 2012.

The RPC noted as above.

d). Implementation of Pasighat Substation: The implementation schedule of Pasighat-Roing-Tezu-Namsai 132kV D/c line is December, 2012.

Govt of Arunachal Pradesh may indicate the schedule of completion of their Pasighat Substation.

Deliberation of the TCC:

AP intimated the target as August'11.

Deliberation of the RPC

The RPC noted as above.

e. Construction of Byrnihat Substation: Govt. of Meghalaya has desired that the Byrnihat substation may be executed by POWERGRID as a deposit work. For this, a contract agreement has been signed by Meghalaya and execution of works by POWERGRID could be commenced on release the initial advance by Meghalaya and handing over of Substation land to POWERGRID.

Govt. of Meghalaya may expedite on these issues for early execution of Byrnihat substation by POWERGRID.

Deliberation of the TCC:

MeECL stated that the consultancy component was released to POWERGRID and the balance initial advance would be released to POWERGRID by March'11. POWERGRID informed that completion would take 18 months from the date of release of advance. TCC advised MeECL to expedite the same considering commissioning schedule of Pallatana U-I in Dec'11. It may be noted that the NIT already floated for this work in 2nd week of January, 2011.

Deliberation of the RPC

The RPC noted as above.

f). Construction of Azara Substation: As discussed in last NERPC meeting, AEGCL indicated that they have already acquired land for this Substation and the substation would be commissioned matching with the commissioning of Silchar – Bongaigaon 400kV line.

Deliberation of the TCC:

AEGCL informed that Azara S/S would be completed by Dec'13.

MD, OTPC enquired the feasibility of operation of Pallatana U-I scheduled in Dec'11 and Pallatana U-II scheduled in Feb'12 without Azara and Byrnihat S/Ss. POWERGRID representative stated that adequate reactive compensation would be required at Pallatana and informed that operation of units would be feasible with probable opening of one circuit during high voltage.

MD, NETC confirmed that Pallatana-Silchar 400 KV line would be completed by Nov'11 subject to permission for tree cutting, which is expected any time, in Tripura and second stage forest clearance in Assam. He further intimated that section up to Bongaigaon would be ready by June'12 subject to second stage forest clearance in Meghalaya and Assam by end of Feb'11.

On an enquiry from OTPC, Tripura and AEGCL confirmed that they would be drawing 80 MW and 140 MW from Pallatana at Surajmaninagar and South Assam respectively.

Regarding Silchar-Aizawl and Silchar-Imphal lines (400 KV charged at 132 KV), POWERGRID informed that these lines were also being constructed.

NERLDC informed that from operational point of view, it would be desirable to have completion of transmission lines to Mizoram and Manipur in addition to Tripura / South Assam before attempting charging of 418 km long Silchar-Bongaigaon without anchoring at Byrnihat/Azara.

MS, NERPC advised POWERGRID to accord priority to Silchar-Imphal and Silchar-Aizawl lines also.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 6.0	Agenda items related to NERPC
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ITEM NO. 6.1	Calendar for holding NER Power Committee Meeting
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As per **para - 11** of amended Resolution of Govt. of India dated 29.11.2005; the Committee Members should meet at least once in six months. However, the Committee may meet to discuss any issue as and when required in consultation with Chairperson of RPC. Considering the importance to discuss and resolve many important issues, it is proposed to hold three RPC Meetings as per the Calendar given below in every Financial Year:

1. January/February
2. April/May
3. September/October

Deliberation of the TCC:

TCC agreed to the above.

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 6.2	Roaster for holding RPC Meetings
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The Roaster for holding the NERPC meetings has been prepared by NERPC and the list is given as below:

<u>Sl. No:</u>	<u>No. of TCC/RPC</u>	<u>Calendar</u>	<u>To be Hosted By</u>
1.	11 th	April/May, 2011	TSECL
2.	12 th	September/October, 2011	NHPC
3.	13 th	January/February, 2012	NTPC
4.	14 th	April/May, 2012	Trader
5.	15 th	September/October, 2012	POWERGRID
6.	16 th	January/February, 2013	Arunachal Pradesh
7.	17 th	April/May, 2013	Assam
8.	18 th	September/October, 2013	Manipur

The roaster has been prepared in alphabetical order of host organizations, keeping in view the backlog of host organizations who could not host the meetings as per their turn earlier.

The Roaster given above should be followed strictly for the benefit of the Region. All constituents are requested not to deviate from the calendar/roaster above.

Deliberation of the TCC:

TCC rearranged the roster as below:

<u>Sl. No:</u>	<u>No. of TCC/RPC</u>	<u>Calendar</u>	<u>To be Hosted By</u>
1.	11 th	April/May, 2011	NHPC
2.	12 th	September/October, 2011	NTPC
3.	13 th	January/February, 2012	Trader
4.	14 th	April/May, 2012	POWERGRID
5.	15 th	September/October, 2012	Tripura
6.	16 th	January/February, 2013	Arunachal Pradesh
7.	17 th	April/May, 2013	Assam
8.	18 th	September/October, 2013	Manipur

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 6.3	Power System Development Fund (PSDF) Managing Committee:
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CERC vide its Notification dated 04.06.2010 had issued regulations for constitution of Power System Development Fund and a Managing Committee for administration of the fund.

Power System Development Fund as per **para 3** of the regulations shall be created by crediting into it the following charges:

1. Congestion charges standing to the credit of the congestion charges account
2. Unscheduled Interchange charges standing to the credit of the Unscheduled Interchanged Pool Account Fund
3. RLDC reactive energy charges standing to the credit of Reactive Charges Account

The account for the above charges is issued by RPCs on weekly basis and charges are collected by respective RLDCs and account for the same is also maintained by them.

As per CERC regulation the amount standing in the above 3 accounts as on 30.04.2010 shall be credited to Power System Development Fund and subsequently on monthly basis or other basis as decided by the Managing Committee.

The Managing Committee for management of Power System Development Fund has been constituted by CERC vide its Order 14.09.2010 as per **para 7** of the regulation. The constitution of the committee is given below:

1. Chairman : Sh. S.K. Soonee, CEO Power System Operation Corporation
2. Representative from RPC : An officer of the level of General Manager or above to be nominated by each RPC
3. Representative of Regional Load Dispatch Centre : Head of RLDCs in each region.
4. Member Convener : General Manager, NLDC
5. Independent External Member Finance : Sh R. Balasubramaniam, Ex. Executive Director, NLC, Neyvelli
6. Independent External Member (Power system expert) : Sh. M.M. Babu Narayan, Additional Director, CPRI

As an interim measure, Member Secretary has been nominated as representative from NERPC with the approval of Chairman, NERPC. Member Secretary has been nominated as representative of RPC by the other RPCs.

Deliberation of the TCC:

Ar. Pradesh, Manipur, Meghalaya, Mizoram, Nagaland proposed MS, NERPC as member of PSDF managing committee from NERPC.

Tripura and Assam proposed that Chairman, TCC should be member of PSDF managing committee from NERPC.

TCC referred the matter to RPC to discuss and nominate the representative from NERPC to the Managing Committee of PSDF.

Deliberation of the RPC

All the constituents agreed to nominate Member Secretary, NERPC as representative from NERPC to the Managing Committee of PSDF, except Tripura. Tripura informed that they would give their view within one week. Chairperson NERPC also suggested that Member Secretary may continue to be the representative of NERPC as he was familiar with the whole region and can take care of the interest of all the states.

ITEM NO. 6.4	Power System Development Fund (PSDF):
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Member Secretary, NERPC informed that PSDF Managing Committee had held three meetings to finalize Conduct of Business Rules, Procedure for Disbursement of Funds from PSDF and Investment of unutilized Funds of PSDF. These documents have been submitted to CERC for approval and shall be placed on the website of NLDC, thereafter.

Deliberation of the TCC:

TCC noted the same.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 6.5	Study Tour to United States of America for NER Constituents – Group - II:
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As decided in the 9th NERPC meeting held in Shillong on 11th & 12th August, 2010, the study tour by Group – I was conducted from 15.11.2010 to 20.11.2010. The Total expenditure for Group – I (including study fees, Air tickets, Visa, Insurances, DA) for 11 members is ` **64, 61,324/=**. The expenditure was met from Reactive Pool Account of N.E. Region.

The amount remaining in the Reactive Pool Account after completion of study tour of Group -I is expected to be ` **1, 70, 38,676/=** as on 31.3.2011. Out of which 30% i.e. ` 57 Lakhs shall be available for Group – II (comprising of 18 members as planned earlier).

The expected expenditure for Group – II shall be about ` **70, 00,000/=** for 18 members and it would not be possible to organize the study tour even in the next financial year i.e. 2011-12 unless the size of the group is reduced.

It is therefore proposed to reduce the number of participants to 12 for Group – II and tour may be planned during April – May, 2011. A third Group may be sent in April – May, 2012.

Deliberation of the TCC:

It was agreed that a 2nd batch of 12 officers may be sent for study tour to USA and duration of tour may be same as for the first group keeping in view the financial constraints. A 3rd group may be sent in April-May 2012 depending upon the availability of fund as on 31-3-12. All the States, NERLDC, PTC, NERPC Secretariat and MoP would nominate one officer each for 2nd group and tour may be undertaken in April/May 2011. Nomination would have to be sent to NERPC Secretariat by 28th Feb'11. It was agreed that receipt of fresh nomination would close by end of Feb'11 and list of participants would be forwarded to PTC to take further action to organize the tour. All necessary action in the matter would be taken by MS NERPC.

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 6.6	Data Validation Committee for sharing of ISTS charges:
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CERC vide letter dated 28.09.2010 has requested NERPC to nominate one member from NERPC apart from Member Secretary, who has already been nominated to Validation Committee as Member. Validation Committee is required to validate the data submitted to NLDC (Implementing Agency) for implementation of sharing of ISTS charges & losses by the beneficiary states and generators for conducting load flow studies and calculation of Point of Connection (PoC) charges & losses. NERPC Secretariat in consultation with Chairman, NERPC has nominated Sh. Jatin Baishya, Senior Manager, SLDC, Assam, as a member of Validation Committee of CERC (sharing of ISTS- Inter-State Transmission Charges & Losses).

Deliberation of the TCC:

TCC recommended nomination of Shri J. Baishya, Sr. Manager, AEGCL.

Deliberation of the RPC

The RPC approved Shri Jatin Baishya, SR. Manager, AEGCL as Member of Validation Committee.

ITEM NO. 6.7	Non – ISTS Assets of licensees to be certified by RPC for sharing of ISTS charges:
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As per CERC regulations on sharing of ISTS charges, Non – ISTS licensees whose assets are used for inter-state transmission as certified by RPC were to be communicated to Implementing Agency (NLDC) by end of November, 2010.

OCC after discussion adopted the following criteria for identification of non – ISTS lines:

- 1. All lines owned by non-ISTS licensees with voltage level of 132kV and above and connecting two contiguous States would be certified as assets being used for inter-state transmission**
- 2. Transmission lines emanating from sub-station of an ISTS licensee shall be excluded, if transmission line of no other non-ISTS licensee emanates from this sub-station.**
- 3. Lines below 132kV level, even if they connecting two contiguous States would not be treated as ISTS for this purpose.**

After detailed discussion the final list of Non – ISTS lines as given below was agreed and communicated to NLDC:

SN	From	To	Voltage (KV)	Length (KM)	Ckts	Total (ckt km)	Ownership
1.	Umtru	Sarusajai I&II	132	37	2	74	Assam - Meghalaya
2.	Kahelipara	Umtru I&II	132	9	2	18	Assam - Meghalaya
3.	Jiribam	Pailapool	132	15	1	15	Assam – Manipur
4.	Kohima	Karong	132	50	1	50	Nagaland - Manipur
5.	Dimapur	Bokajan	132	26.4	1	26.4	Nagaland - Assam
6.	Dullavcherra	Dharmanagar	132	29	1	29	Assam - Tripura
7.	Panchgram	Lumshnong	132	23.4	1	23.4	Assam - Meghalaya
8.	Mokokchung	Mariani	132	50	1	50	Nagaland – Assam
9.	Kathalguri	Deomali	220	19	1	19	Arunachal Pradesh

The above lines are subjected to further approval by CERC. The annual transmission charges for the above lines as approved by respective SERCs also have to be communicated to NLDC and respective states have to take action in this regard.

Deliberation of the TCC:

TCC agreed to the list of lines. Ownership of Jiribam-Pailapool would be changed to Assam.

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 8.3	Certification of Non - ISTS 220 KV BTPS - Agia- Sarusajai line as deemed ISTS line - Assam.
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220 KV BTPS- Agia – Sarusajai line should be considered for certifying it as deemed ISTS line. This issue was addressed as agenda item in the 56th & 57th OCC meetings and Assam had presented their views strongly for inclusion of this circuit under the “Special Category” lines since this line is extremely vital not only for ER-NER link stability but also for Meghalaya’s capability to draw Central Sector power.

Deliberation of the TCC:

TCC agreed for certification of 220kVAgia-Sarusajai line of AEGCL as deemed ISTS line.

Deliberation of the RPC

The RPC endorsed the decision of TCC. The 220 KV Agia – Sarusajai would be included for the year 2012-13 as list of lines for 2011-12 has already been forwarded to CERC.

ITEM NO. 6.8	Proposal for purchasing new vehicle for NERPC Secretariat:
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NERPC is having only two cars (Ambassador of 2001 & 1984 make). Only one car is in good condition and the other needs to be scrapped. Govt. of India has banned procurement of new car. Officers of NERPC have to visit sub-stations, generating stations of States and Central Utilities and hiring of vehicles for site visit on official tour is un-economical as private taxis charge exorbitant rates, and due to this the officers are unable to visit the sites and number of important site visits and meetings could not be attended outside Shillong and have to be either cancelled or rescheduled at Shillong.

NERPC through its judicious use of the money contributed by the constituents in the Board Fund has saved some money in the Board Fund. It is therefore proposed to procure one new vehicle from the Board Fund of NERPC with the ceiling amount of ` 8 Lakhs for use of NERPC Secretariat. In NRPC also the similar practice has been followed.

Deliberation of the TCC:

TCC agreed to the proposal.

Deliberation of the RPC

The RPC endorsed the decision of TCC. It was decided that if the expenditure exceeds ` 8 lakhs, prior approval shall be obtained from Chairman, NERPC.

ITEM NO. 6.9	Auditing of Board Fund of NERPC:
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During the 5th NERPC meetings held at Gangtok on the 25th & 26th April, 2008, the Committee has recommended constituents who are based in Shillong would be auditing the Board Fund of NERPC. Accordingly, auditing of the Board Fund of NERPC for the period of 2007- 2008 has been carried out by the Officer from Me. ECL (ex – MeSEB), NEEPCO & POWERGRID.

It is therefore requested to nominate one Officer each from Me. ECL, NEEPCO & POWERGRID for Auditing the Board Fund of NERPC for 2008-2009 & 2009-2010.

Deliberation of the TCC:

TCC agreed to the proposal. MeECL nominated Shri A. Kharpan, SE (SLDC). NEEPCO and POWERGRID will send their nominations within a week.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 6.10	Corporate Training Programme from DOEACC Society Shillong Centre:
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NERPC contacted DOEACC, Shillong Center for imparting training programme on Advance Programming and web designing. The following courses have been offered by them.

Sl. No	Name of Course	Duration	Timing
1.	Corporate Training Programme in "Programming & Problem Solving through C/C++ "(Detail syllabus/outline enclosed as Annexure – 6.10	85 hours (one month approx)	9:00 A.M to 12:00 P.M (3 hrs daily)
2.	Corporate Training programme in "Web Design & Development using PHP & MySQL "(Detail syllabus/outline enclosed at Annexure – 6.10	120 hours (two and half months approx)	9:00 A.M to 12:00 P.M (3 hrs daily)

The details of programme are enclosed at **Annexure – 6.10**

The DOEACC Society has indicated minimum participation fees for 7 candidates amounting to ` 99,297/- (including Service Tax) for both the programme. Further it has been informed that additional participation fee would be approximately ` 6000/- per candidate for course I and ` 9000 /per candidate for course II.

The participation in the above training programme would be very useful for preparation of energy accounting, web designing for decimation of information etc. It is therefore proposed to approve the funding of the training programme from Power Development Fund.

Deliberation of the TCC:

It was agreed to nominate 2 engineers each from NERPC, Assam, Meghalaya and one each from NERLDC and Mizoram for the programme. The expenditure shall be met from PSDF .

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 6.11	Non - participation by constituents in Sub- Committee Meetings of NERPC:
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It has been observed that constituent States viz. Mizoram, Manipur, Nagaland and of late Tripura were not attending the OCC/CCM/Protection Sub- committee meetings of NERPC on many occasions. Many important issues could not be discussed due to non-participation by the constituents and decisions pertaining to the absentee states have to be taken without benefit of their views.

CERC has now constituted a Validation Committee for validation of basic network, nodal generation & demand and load flow studies etc. as per the CERC regulation on sharing of Inter-State Transmission Charges & Losses. It is now very important for all the constituents to attend the Sub- committee meetings every month to discuss State demand, generation etc. before sending to Validation Committee.

In every Sub-committee meetings many important issues are discussed and it is also the opportunity to learn about the new Regulations & problems being faced in the grid operation of North Eastern Region.

It is therefore requested that all the constituents should attend the meetings of NERPC regularly.

Deliberation of the TCC/RPC:

Constituents stated that attending the OCC meeting every month at Shillong was very difficult as officers have to avail 3-4 days for attending one meeting. Constituents felt that Guwahati would be a better option as all the State capitals have direct flight connectivity to Guwahati, hence it would take minimum time for attending the OCC meetings.

Chairman, NERPC suggested that sub-committee meetings are equally important and input from Sub-committee meetings help the NERPC in taking decision in policy matters and all constituents and CPSUs should attend the Sub-committee meetings. Keeping in view the difficulty in travelling to Shillong, the meetings may be held at Guwahati in the respective State Guest houses or ASEB/NEEPCO offices.

He also suggested that State/CPSUs may also host the meetings in respective states and power plant sites on rotation basis.

It was decided that a roaster to host the Sub-committee meetings similar to TCC/RPC meeting may be prepared and meeting may be held in Guwahati or States/Plant plant sites as per roaster. The expenditure on lunch/tea etc. for hosting the meeting in Guwahati shall be met from Board Fund. However, participants shall have to make their own arrangement for stay in Guwahati in their state guest houses. In case of a meeting being held in a State/plant site of CPSUs, the expenditure on boarding, lodging and meeting shall be met by the host organization.

ITEM NO. 6.12	Contribution of Board Fund of NERPC:
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During the 9th NERPC meetings held at Shillong on the 11th & 12th August, 2010, the Committee has approved the enhancement of Board Fund of NERPC from ` 25000/- to ` 50000/- for State Utilities and ` 50000/- to ` 2,00,000/- for Central Utilities w.e.f. F.Y. 2010 - 2011. All the constituents have contributed the Board Fund as per enhancement mentioned above, except Manipur & Tripura.

Deliberation of the TCC:

Tripura and Manipur intimated that the amount has been sent. Same will be confirmed by NERPC.

Deliberation of the RPC

The RPC noted as above.

ITEM No. 6.13	Commissioning Schedule of Generation Projects in NER :		
	The proposed date of commissioning for these projects are as below :		
	Generating Agency	Generation Project	Commissioning Schedule
	NHPC	Lower Subansiri)	12 th Plan
	NEEPCO	Kameng HEP)	12 th Plan
	NTPC	Bongaigaon TPS)	1 st unit: 8/11, #2: 2/12, #3:4/12
	OTPC	Pallatana GBPP)	1 st unit: 9/12, #2: 2/13
NEEPCO	Tuirial HEP)	12 th Plan	

Note: Information as per CEA.

Deliberation of the TCC:

TCC noted the above. OTPC however reiterated their target of Dec'11 for U-I and Feb'12 for U-II.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 7.0	Agenda items related to Mizoram
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ITEM NO. 7.1	Advancement of peak hours in respect of Mizoram:
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Deliberation of the TCC:

States in the North Eastern Region due to their location, terrain and lifestyle of its people attained peak demand of power in the evening by 1700hrs during winter and by 1800hour during rest of the year. Since peak hours for allocation of unallocated power from CGS in NE region have been indicated as 1800hrs to 2200hrs in MoP orders states are forced to overdraw during winter period between 1700hrs to 1800hrs.

It was agreed that MoP would be requested through CEA to revise peak hours in allocation of unallocated Power of CGS in NER as given below:

Oct to Feb : 1700 Hrs to 2100 Hrs.

March to Sept : 1800 Hrs to 2200 Hrs.

Deliberation of the RPC

The RPC endorsed the recommendation of TCC.

ITEM NO. 8.0	Any other items:
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ITEM NO. 8.1	Installation of new Under Frequency Relays (UFRs) in NER constituent systems and constituent-wise load relief quantum as recommended by the sub-committee- NERPC:
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The matter was discussed regularly in the OCC meetings. All the constituents have furnished the list of identified feeders.

In the 9th TCC Meeting, Member Secretary informed that only Assam had installed the UFR and they were facing load shedding and public resentment whenever frequency falls. Assam has been persuaded to keep the UFRs in operation. The status as given by respective states during the 9th TCC meeting is given below:

- 1) Arunachal Pradesh- Procurement was over and installation would be completed by December 2010.
- 2) Assam - Already implemented.
- 3) Manipur - Would be implemented by December 2010.
- 4) Meghalaya - Would be implemented by December 2010.
- 5) Mizoram - Would be implemented by September 2010.
- 6) Nagaland - Would be implemented by September 2010.
- 7) Tripura - Would be implemented by December 2010.

Constituents may kindly intimate the current status.

Deliberation of the TCC:

Constituents informed the status as below:

- 1) Ar. Pradesh: March'11
- 2) Manipur : June/July'11
- 3) Meghalaya : April'11
- 4) Mizoram : March'11
- 5) Nagaland : March'11
- 6) Tripura : April'11

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 8.4	Certification of 33 KV Non - ISTS Inter-state lines as deemed ISTS lines - Assam.
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A number Non- ISTS 33 KV inter-state feeders of Assam are important corridors for transfer of central sector power to Arunachal Pradesh and Nagaland, and as such these lines should be considered for certification as deemed ISTS lines. This was discussed in the 56th OCC meeting wherein Assam had advocated that even if these lines are excluded from the category of Non-ISTS line as deemed ISTS line, bi-lateral arrangement may be allowed to settle the wheeling charges for wheeling central sector power through these lines.

Deliberation of the TCC:

Since in CERC regulations lines below 132 kV are not considered, TCC advised Assam, Nagaland, Ar. Pradesh to settle the wheeling charges mutually for lines below 132 kV.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 8.5	Effective communication between Field locations and NERLDC - NERLDC
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NERLDC informed that for reliable real time grid operation, correctness of data from RTUs of different locations is extremely crucial. Inaccurate/inconsistent data from RTUs need to be attended urgently by the concerned constituent/agency.

In the 9th TCC/NERPC meetings held on 11th & 12th August, 2010 at Shillong, all the Constituents were requested to ensure healthiness of respective communication channels including RTUs. NTPC and OTPC were also requested to provide RTU and Communication channel in their upcoming Projects to ensure availability of data in NERLDC once the project is ready.

NTPC and OTPC may intimate status and action plan. Constituents, especially AEGCL, where more 50% of their RTUs are not reporting are requested to take immediate action.

Deliberation of the TCC:

NERLDC informed the status of reporting of RTUs pertaining to NER States as below:

- Assam : 6 reporting out of 21 (old ULDC scheme)
- Meghalaya : 6 reporting out of 8
- Tripura : 7 reporting out of 9
- Other States except AP : None reporting

Assam informed that 35 nos. of new RTUs which shall replace old RTUs would be commissioned within two weeks. MS, NERPC requested others also to do the needful.

NERLDC requested OTPC and NTPC to ensure voice and data communication with NERLDC commensurate with commissioning of the first unit of the Power Stations. As implementation of the above requires coordination with CTU for communication channel planning as well as integration of the Power Station(s) database to the Regional SCADA database, OTPC and NTPC were requested to take up the issue appropriately.

OTPC informed that they had detailed discussions with LD&C wing of POWERGRID on this and needful would be done by them. NTPC also informed that they would also take necessary action on this.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 8.6	UI outstanding - NERLDC
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Status of UI outstanding as on 15.01.2011 is attached at **Annexure-8.6**. Meghalaya and Nagaland are the largest defaulters with outstanding of ` 8.02 Crores and 13.63 Crores respectively.

Deliberation of the TCC:

Meghalaya and Nagaland were advised to liquidate the dues at the earliest.

Deliberation of the RPC

The RPC noted as above.

TEM NO. 8.7	Requirement of SEMs and DCDs for NER up to 2013-14
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Requirement of SEMs and DCDs pertaining to NER up to 2013-14 (**191 SEMs and 61 DCDs**) is attached at **Annexure- 8.7**. Assessment of SEMs & DCDs have been

done based on records of approved / ongoing generating projects, transmission projects, Sub-stations and up-gradation of transformation capacities (ICTs) in N.E. Region. The final requirements of SEMs and DCDs may vary depending upon the actual position. Procurement may be planned in phased manner depending on commissioning schedule of new projects.

Deliberation of the TCC:

TCC approved the procurement of SEMs/DCDs by POWERGRID, NERTS in phased manner as per requirement.

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 8.8	Non-submission of weekly SEM readings as per stipulated timeframe - NERLDC
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As per IEGC (***effective from 3.5.2010***) Sub-clause-22 of Clause-6.4 (***demarcation of responsibilities***), all concerned utilities in whose premises SEMs are installed shall take weekly meter readings and transmit the same to RLDC by Tuesday noon for timely issuance of UI-account. However, readings are not being received in time from most of the locations in NER.

Non-submission of weekly SEM reading to NERLDC as per stipulation is a violation of IEGC provision. As there are difficulties in transmittal of data from various locations, the activity may be outsourced to some external agency who would be overall responsible for collection and transmittal of data to NERLDC from all locations of NER.

Deliberation of the TCC:

All the constituents decided not to go for outsourcing and agreed to submit SEM readings as per stipulated timeframe. It was decided that NERLDC would submit report to NERPC periodically regarding non-compliance of this and the matter would be reviewed in the OCC/Commercial Committees before putting-up in next TCC meeting.

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 8.9	Pilot project on Phasor Measurement Unit (PMU) in NER
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The panel of experts on implementing strategy for Smart Grid Technology (which has Prof Dr A G Phadke as chairman, Member (PS), CEA and other eminent persons as members) in its 1st meeting held on 30-08-10 to 01-09-10 at Corporate Centre, POWERGRID have, inter alia, recommended the followings:

- a) Pilot project must be continued on priority for all the regions.
- b) Each of the Region should have direct access to the necessary PMUs data located in other Region(s) to have the feedback of system status of other Regions.
- c) Each of the Regional Pilot schemes shall be integrated at National level.
- d) The communication system for PMU should be based on Fiber Optics and should have physical route redundancy. The communication infrastructure strengthening should be taken on priority for PMU project.

Accordingly for NER Scheme, it is proposed to install 6 Nos. of PMUs in strategic identified locations of NER and two corresponding PMUs in each other regions in NEW grid i.e. NR, ER, WR under the pilot project. Hence there would be total 12 PMUs and data shall be brought by using fiber optic links to the control centre. At NERLDC, certain hardware & software shall be provided to use this data for situational awareness and dynamic monitoring. The estimated cost of implementation of this pilot project in NER would be approximately ` 2.2 Crores for the first phase. The matter was discussed in 58th. OCC meeting of NER held on 10.01.2011.

Deliberation of the TCC:

NERLDC explained the necessity of above scheme and informed that for the PMU to be installed in NE region, total cost would be around ` 4.2 crores out of which provision for ` 2 crores has been kept in NERLDC fees and charges. Balance ` 2.2 crores is proposed to be funded from the PSDF or through Fees and Charges of NERLDC.

Deliberation of the RPC

The RPC approved an amount of ` 2.2 Crores to be funded from PSDF.

ITEM NO. 8.10	Banking Transaction
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Deliberation of the TCC:

As required by MOP, MS NERPC requested all Constituents to give the information regarding their banking transaction for 2010-11 and committed banking transaction for 2011-12 directly to GM Division of CEA, New Delhi within a month.

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 8.11	Trader membership
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At present there are two power trading companies operating in NE Region. They become the member of NERPC on year-wise rotation basis. It is proposed to include both i.e. PTC and NVVN as members of NERPC.

Deliberation of the TCC:

TCC recommended including both PTC and NVVN as Trader members of NERPC.

Deliberation of the RPC

The RPC endorsed the decision of TCC.

ITEM NO. 9.0	Date & Venue of the next meeting
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The next meeting of TCC & NERPC is proposed to be held in April/May, 2011. Exact dates and venue shall be intimated later. As per Roaster NHPC will be the host for the next 11th TCC/RPC Meetings.

The meeting ended with thanks to the Chair

List of Participant in 10th TCC Meeting

Organisation	Name S/Shri	Designation
Arunachal Pradesh	1. J. Tato 2. W. Rehman	Chief Engineer (Power) West Zone Executive Engineer (SLDC)
Assam	1. U.K.Sharma 2. G.K. Das 3. B.Paul 4. M.K. Adhikary 5. S.Baruah 6. J.K.Baishya 7. K. Goswami 8. B.M.Saikia	Member (T),APDCL CGM, (LD&C), AEGCL CGM, T&T DGM (Com), APDCL GM (Com), APDCL Sr. Manager, SLDC Sr. Manager (Com), APDCL Sr. Manager (Com)
Manipur	1. L. Priyokumar 2. Th. Aton Singh 3. N. Dwijan Singh 4. M. Jadumani Singh	Addl. Chief Engineer (P) Superintending Engineer (Comml) Superintending Engineer (Civil) Superintending Engineer (P&D)
Meghalaya	1. C.D. Saio 2. K. Marbaniang 3. A.Kharpran 4. F. E. Kharshiing	Director (D) & Chairman, TCC Chief Engineer (T&T) Superintending Engineer, SLDC Executive Engineer (SLDC)
Mizoram	1. Vanhela Pachuau 2. C.L. Thangliana. 3. Lalramliana 4. Lalduhzuala Sailo 5. Jolly Newman	Chief Secretary Engineer- in- Chief Superintending Engineer (Pc-I) Superintending Engineer (Com) Joint Secretary
Nagaland	1. Bendang Longkumer 2. S.L.Asangbha Tikhir	Executive Engineer, SLDC S.D.O, SLDC
Tripura	1. N.S.Chakraborty 2. M.K. Chakraborty 3. M. Debbarma	CMD, TSECL GM (T), TSECL Additional General Manager, TSECL
NHPC	1. M.K.Raina 2. R. Raina 3. N.S.Parmeshshwaran	ED(O&M) Chief Engineer (Comml) CE (O&M)
NEEPCO	1. P. K. Singha 2. Bhaskar Goswami	Executive Director (O&M) Sr. Manager (E)
NERLDC	1. T.S.Singh 2. R. Sutradhar	Addl. General Manager Chief Manager
POWERGRID	1. K.K.Chaudhury 2. D.K. Sarma 3. V.K.Gupta 4. Avinash. M. Pavgi 5. Kamal Sarkar 6. S.S. Raju 7. Prasanta Kanungo	Executive Director General Manager (NERTS) General Manager, NERTS Addl. General Manager (Engg) Addl. General Manager (OS) DGM, (Coml) Chief Manager (LD&C Corporate Office)

List of Participant in 10th TCC meeting

Organisation	Name S/Shri	Designation
CEA	1. C. Shanmugam	Director (GM)
OTPC	1. S.K. Dube	Managing Director
NTPC	1. S. Nayak	DGM
NETC	1. Umesh Chandra 2. M. Krishna Kumar	Managing Director Director (Proj)
NERPC	1. B. K. Jain 2. P. D. Siwal 3. A.K.Mishra 4. B. Lyngkhoi 5. Lalrinsanga 6. D. K. Bauri	Member Secretary S.E (O) S.E (Comml) Assistant Secretary Executive Engineer Asst. Executive Engineer

List of Participant in 10th NER Power Committee meeting

<u>Name</u>	<u>Designation</u>
1. Er. A. T. Mondal	Hon'ble Power Minister, Meghalaya & Chairperson, NERPC
2. Sh. Lal Thanhawla	Hon'ble Chief Minister, Govt. of Mizoram
3. Sh. Lal Thanzara	Hon'ble Parliament Secretary Power, Mizoram

Organisation	Name S/Shri	Designation
Arunachal Pradesh	1. J. Tato 2. W. Rehman	Chief Engineer (Power) West Zone Executive Engineer (SLDC)
Assam	1. U.K.Sharma 2. G.K. Das 3. B.Paul 4. M.K. Adhikary 5. S.Baruah 6. J.K.Baishya 7. K. Goswami 8. B.M.Saikia	Member (T), APDCL CGM, (LD&C), AEGCL CGM, T&T DGM (Com), APDCL GM (Com), APDCL Sr. Manager, SLDC Sr. Manager (Com), APDCL Sr. Manager (Com)
Manipur	1. L. Priyokumar 2. Th. Aton Singh 3. N. Dwijan Singh 4. M. Jadumani Singh	Addl. Chief Engineer (P) Superintending Engineer (Comml) Superintending Engineer (Civil) Superintending Engineer (P&D)
Meghalaya	1. C.D. Saio 2. K. Marbaniang 3. A.Kharpran 4. F. E. Kharshiing	Director (D) & Chairman, TCC Chief Engineer (T&T) Superintending Engineer, SLDC Executive Engineer (SLDC)
Mizoram	1. C.L. Thangliana 2. L.Pachau 3. Lalnunmawia Sailo 4. Lalduhzuala Sailo	Engineer- in- Chief CE (D) CE (SO), P&E Superintending Engineer (Comml)
Nagaland	1. Bendang Longkumer 2. S.L.Asangbha Tikhir	Executive Engineer, SLDC S.D.O, SLDC
Tripura	1. M.K. Chakrabarty 2. M. Debbarma	GM (T), TSECL Additional General Manager, TSECL
NHPC	1. M.K.Raina 2. R. Raina 3. N.S.Parmeshshwaran	ED(O&M) Chief Engineer (Comml) CE (O&M)
POWERGRID	1. D.K. Sarma 2. V.K.Gupta 3. Avinash. M. Pavgi 4. Kamal Sarkar 5. S.S. Raju 6. Prasanta Kanungo	General Manager (NERTS) General Manager, NERTS Addl. General Manager (Engg) Addl. General Manager (OS) DGM, (Coml) Chief Manager LD&C Corp. Office)

Organisation	Name S/Shri	Designation
NEEPCO	1. P. K. Singha 2. Bhaskar Goswami	Executive Director (O&M) Sr. Manager (E), (O&M)
NERLDC	1. T.S. Singh 2. R. Sutradhar	Addl. General Manager Chief Manager
NVVN	No Representative	
NETC	1. Umesh Chandra 2. M.Krishna Kumar	Managing Director Director (Project)
IEDCL	No Representative	
NTPC	1. S.Nayak	DGM
PTC	1. Snajeev Mehra	Executive Vice President
OTPC	1. S.K. Dube	Managing Director
CEA	1. C.Shanmugam	Director (GM)
NERPC	1. B. K. Jain 2. P. D. Siwal 3. A.K.Mishra 4. B. Lyngkhoi 5. Lalrinsanga 6. D. K. Bauri	Member Secretary S.E (O) S.E (Comml) Assistant Secretary Executive Engineer Asst. Executive Engineer