

North Eastern Regional Power Committee

Agenda Notes for 11th TCC and 11th North Eastern Regional Power Committee Meetings

Date: 05/05/2011 - TCC
06/05/2010 - NERP Committee

Venue: "The Ffort Raichak," Kolkata
"The Ffort Raichak," Kolkata

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| ITEM NO. 1 | Confirmation of the minutes of 10 th TCC and 10 th NERP meetings held on 08.02.2011 and 09.02.2011 at Aizawl |
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The minutes of the 10th TCC and 10th North Eastern Regional Power Committee (NER Power Committee) meetings held on 08.02.2011 & 09.02.2011 respectively at Aizawl were circulated vide letter no. NERPC/AS/Committee/2011/3926-96 dated 14.03.2011.

NEEPCO vide letter dated 07.04.2011 has given an observation on Item No. 1.1.2 (C-9 page -7 of the minutes).

Minutes recorded: *"the time schedule for implementation of SPAR in 132 KV Ranganadi – Ziro line is within six months."*

Minutes to be recorded: *"NEEPCO stated that the line is only 6 years old and replacement of the breaker is not commercially viable at this stage."*

No other comments or observations were received from constituents, the TCC and NER Power Committee may confirm the minutes of above meetings.

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| Performance of NER Grid | NERLDC is requested to give presentation on Grid performance in NER |
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| ITEM NO. 1.1 | Follow – up on decisions in the previous (10 th) NERPC meeting. |
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Status on follow up of the decisions of the 10th NERPC meeting is as discussed below:

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| ITEM NO. 1.1.1 | Special Protection Scheme for North Eastern Region: |
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During the 10th RPC meeting, AGM, NERLDC informed that after commissioning of 2nd circuit of 132 KV Kopili – Khandong line the scheme has to be modified. 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.

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.

The item has been followed up in OCC meetings and during the 61st OCC meeting held at Guwahati on 08.04.2011, POWERGRID informed that they had visited the site on 14.03.2011 and tested the existing PLCC panels at Imphal and Loktak. During testing both end panels were found defective. Since the panels were obsolete and no support for spares and service was available for the existing PLCC panels, the proposed Special Protection Scheme could not be implemented. POWERGRID has informed that new panels have to be procured to make the SPS operational and procurement of new panels and installation will be completed by December, 2011 only.

Committee may note.

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| 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 the status of SPAR as reviewed during the 61st OCC meeting is as under.

| Sr. No. | Name of the Line | Ownership | Status as given on 61st OCC meeting. |
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| 1 | 400kV Balipara - Ranganadi I&II | RHEP, NEEPCO | NEEPCO & PGCIL informed that joint inspection has been fixed on 15.04.2011. The status will be reviewed in the next OCC. |
| 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 | Assam informed that the work is in progress and the same will be completed by May, 2011. |
| 4 | 220kV Balipara - Samaguri | Samaguri, AEGCL | Assam informed that work at Samaguri will take atleast one year. |
| 5 | 132kV Aizawl - Zemabawk | Zemabawk, P&E, Mizoram | No representative from Mizoram. status could not be updated. |
| 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 | Materials would be dispatched in 2 lots from factory and work will be completed within one year. |
| 9 | 132kV Ranganadi- Ziro | RHEP, NEEPCO | The matter was discussed in 61 OCC meeting and NEEPCO intimated that breaker was only 6 years old and it would not be viable to replace the breaker. It was agreed that Ar. Pradesh would explore possibility of utilizing the breaker and intimate in RPC meeting. |

Committee may discuss.

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| ITEM NO. 1.1.3 | Installation of Line Reactor at Kathalguri end of Misa - Kathalguri Line. |
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The issue has been followed up in OCC meetings and during the 60th OCC meeting held on 11.03.2011 at Guwahati, PGCIL informed that the cost estimate along with agreement has been finalized and the same has been conveyed to NEEPCO on 10.03.2011. The Revised Estimated cost as indicated by POWERGRID is ` 4.444 Crores for 20 MVA reactor.

During the 61st OCC meeting, NEEPCO informed that the revised cost estimate which was received on 10.03.2011 from POWERGRID has been put up to the Management for concurrence.

NEEPCO may inform the current status.

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| ITEM NO. 1.1.4 | Transfer facility in Bus Bar arrangement |
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During the 61st OCC meeting, CGM, LD&C, Assam informed that the installation work at Mariani & Samaguri have been completed in all respect. However, clearance from electrical inspectorate, Govt. of Assam has not been received. Once the electrical clearance is obtained the scheme would be commissioned.

In the 10th RPC meeting it was decided that the scheme may not be implemented at Ranganadi and Kathalguri power stations of NEEPCO due to space constraints.

For kind information to the TCC members.

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| ITEM NO. 1.1.5 | 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 61st OCC meeting, PGCIL informed that the file was presently with nodal officer, Forest Dept. Govt. of Assam and then they will forward it to Regional office of Ministry of Environmental & Forest, Shillong. The final forest clearance is expected very soon. The line was in operation using ERS.

POWERGRID may kindly intimate the current status.

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| ITEM NO. 1.1.6 | 132 kV Loktak – Jiribam Line Ckt - I |
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During the 10th NERPC meeting, 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.

Manipur may indicate the current status.

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| ITEM NO. 1.1.7 | Unified Load Dispatch Centre (ULDC) Scheme for NER |
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In the 10th NER Power Committee meeting, a committee comprising of representatives from POWERGRID, Assam, Meghalaya and Tripura was formed as given below to pursue with DONER for reimbursement of the money related to State portion and report the status in the next RPC meeting.

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| 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 |

The Committee may indicate the current status.

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| ITEM NO. 1.1.8 | Setting-up/Up-gradation of SLDCs in NER: |
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In the 10th NER Power Committee Meeting, the status given by POWERGRID for four States viz. Ar. Pradesh, Mizoram, Manipur & Nagaland is given below:

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 has already paid advance payment for DPR. Nagaland would intimate the status shortly.

Assam, Meghalaya & Tripura: would execute the scheme on their own.

POWERGRID may kindly intimate the current status.

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| ITEM NO. 1.1.9 | Installation of new Under Frequency Relays (UFRs) in NER constituent systems and constituent-wise load relief quantum as recommended by the sub-committee: |
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In the 10th NER Power Committee Meeting, the status given by constituents of NER for installation of UFR is given below:

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| 1) Ar. Pradesh | : | March, 2011 |
| 2) Manipur | : | June/July, 2011 |
| 3) Meghalaya | : | April, 2011 |
| 4) Mizoram | : | March, 2011 |
| 5) Nagaland | : | March, 2011 |
| 6) Tripura | : | April, 2011 |

Constituents may kindly intimate the current status.

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| ITEM NO. 1.1.10 | Advancement of peak hours in NER: |
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In the 10th NER Power Committee Meeting, it was agreed that MOP would be requested through CEA to revise the peak hours in allocation of unallocated power of CGS in NER during summer and winter months.

NERPC vide even letter dated 21.02.2011 has written to CEA to take up the matter with MOP for revision of peak hours during summer and winter months. The reply is still awaited from CEA and the status will be intimated later.

For kind information only.

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| ITEM NO. 1.1.11 | Annual Design Energy of KHEP (4 x 50MW) for 2004-2009: |
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In the 10th NER Power Committee Meeting, Member Secretary informed that NERPC secretariat has carried out a comparative study for the period from April, 2004 to March, 2009 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.

NEEPCO has furnished their detail of calculation considering 1186.14 MU as design energy for the above power station and the impact due to proposed revision of Design Energy is – Rs.173.81 lakhs. (i.e. NEEPCO bill for the period shall reduce by Rs. 173.81 lakhs).

The Detailed calculation sheets are attached at **Annexure – 1.1.11.**

Members may deliberate and concur the proposal.

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| ITEM NO. 1.1.12 | Receivables of Assam from NER States: |
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Assam informed that all NER states except Nagaland have already cleared the principal portion of the outstanding. Assam has been requesting Nagaland to clear the principal amount. Recently APDCL has sent vide letter dated 20.12.2010 to Chief Engineer, Dept. of Power, Govt. of Nagaland to liquidate the principal amount immediately as ASEB is under pressure from CSGS and CTU to liquidate its payment liability to each of them.

The Executive Engineer, Transmission Division, Dimapur, Nagaland has requested in the 10th TCC & NERPC meetings to send a copy of the above letter to him as the payment would be released from his office. Accordingly, reminder was sent on 21.02.2011 in his address also. But till now no payment is released by Nagaland. It is worth mentioning that Assam did not make any business on this transaction. Because of lean shortage of power in the NER during those period, portion of ER power imported by Assam under bilateral arrangement was extended to all neighboring states at the ER tariff only as per advice of NEREB. It may be appreciated that the arrangement was purely extension of helping hand to the neighboring states during lean periods on no gain no loss basis.

Nagaland is requested to liquidate the above principal amount at the earliest.

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| ITEM NO. 2.0 | Agenda items related to TSECL |
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| ITEM NO. 2.1 | Training and certification of NER System Operators – proposal for financial support from NER Reactive Pool A/C or PSDF: |
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Tripura informed that Ministry of Power, Govt. of India has decided that training and certification of system operators for the executives of SLDCs are to be carried out in the interest of efficient functioning of SLDCs. Accordingly, Power System Training Institute (PSTI), Bangalore recently announced a short term courses on training and certification of system operators for the executives and invited participation of SLDC personnel. This type of training course would definitely help to strengthen the SLDC functioning and is a continuous process. But the course fee is found to be high for each programme. State utilities of North Eastern Region may find it difficult to support this kind of costly training and certification programme of continuous nature. In view of the above, it is proposed to arrange funding of the entire programme of training and certification of NER system operators from NER Reactive Pool A/c or PSDF.

Committee may like to discuss.

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| ITEM NO. 3.0 | Agenda items related to NHPC |
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| ITEM NO. 3.1 | Withdrawal of CRPF deployed at Loktak Power Station: |
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NHPC informed that as per the decision taken by Ministry of Home Affairs, Govt. of India, CRPF deployed at Loktak Power Station is being withdrawn and CISF is to be inducted for the security of Loktak Power Station henceforth. As per the survey conducted by CISF, deployment of 795 security personnel has been projected for the security of the power station as intimated by Director General, CISF vide their letter dated 04.03.2011.

Presently, the security requirement of the power station is being met by the deployment of 5 companies of CRPF in the premises of Loktak Power Station area. The decision to replace CRPF by CISF would pose a serious threat to the operation of Loktak power station. Handing over the security of the project to CISF, which is not equipped for insurgency operations, would create panic and it would be extremely difficult to operate Loktak power station, which is meeting the power requirement of the states of North eastern Region.

Presently, the CRPF has been accommodated in the surplus barracks and as such the power station is not incurring any expenditure towards the security. By deploying CISF, power station will have to bear the burden of a huge expenditure of ` 28 Crores per annum towards recurring and non-recurring expenditure for deployment of 795 personnel. Apart from above, NHPC also has to meet expenditure on infrastructure like

construction of buildings, modern security gadgets, office automation etc for which extra expenditure shall have to be made. This would inflate the operation cost adversely and will lead to increase tariff of the power station. NHPC has already taken up the issue with Ministry of Power, Govt. of India and Secretary (Power), MoP has also taken up the matter with Secretary (Home Affairs), Govt. of India to review the decision of withdrawal of CRPF.

Being an important issue concerning smooth operation of the Loktak power station and as interest of North Eastern States is also involved, NHPC requested the forum to take up the matter through NERPC and NEC for an early review by Home Ministry, Govt. of India.

Committee may like to discuss.

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| ITEM NO. 4.0 | Agenda items related to NETC |
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| ITEM NO. 4.1 | 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 10th NERPC meeting Meghalaya has intimated that they would sign and pay equity contribution by March, 2011 and Nagaland stated that they would intimate the status at the earliest.

It was decided that NETC may wait till March, 2011 for signing of deed of adherence by Meghalaya and Nagaland and after end of March, 2011 equity share offered to them would revert to OTPC.

NETC may intimate the current status.

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| ITEM NO. 4.2 | 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 is given in **Annexure-3.2**.

Committee may like to discuss.

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| ITEM NO. 5.0 | Agenda items related to NERLDC |
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| ITEM NO. 5.1 | UI Outstanding |
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Status of UI outstanding as on 03.04.2011 is attached (**Annexure- 5.1**). Meghalaya, Mizoram and Nagaland are the largest defaulters with outstanding of ` 15.91 Crores, `8.98 Crores and ` 13.60 Crores respectively.

MeECL, Mizoram and Nagaland may submit their action plan to liquidate the outstanding dues.

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| ITEM NO. 5.2 | CAPEX for RC-SLDCs in NER |
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CERC has approved CAPEX of ` 10 Lakh (vide order dated 18/03/2011, Petition no. 100/2010) for Procurement of communication system for communication with RC-SLDCs viz. Arunachal Pradesh, Manipur, Mizoram & Nagaland. Annual Recurring Charges of ` 928902/- (usage charge) need to be agreed by the concerned users viz. Arunachal Pradesh, Manipur, Mizoram, Nagaland and NERLDC.

Committee may like to discuss.

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| ITEM NO. 5.3 | WAMS / PMU pilot project in NER |
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CERC has approved ` 400 Lakh (vide order dated 18/03/2011, Petition no. 100/2010) for implementation of WAMS and PMU in North-Eastern Region. The expenditure for pilot scheme of WAMS/PMU, shall be incurred under CAPEX after ratification of NERPC which will be adjusted at the time of truing up.

Committee may like to discuss.

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| ITEM NO. 5.4 | Status of amount available in NER Reactive Pool Account |
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Out of the total available amount of ` 1.8 Crores in Reactive Pool Account, ` 3247333/- has been transferred to M/S PTC in April'11 in line with advice of MS, NERPC for study tour of NER Engineers. The amount available in Reactive Pool Account now (as on 20.4.2011) is ` 1.48 Crores.

This is for information of TCC/NERPC.

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| ITEM NO. 6.0 | Agenda items related to POWERGRID |
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| ITEM NO. 6.1 | Security Assistance for maintenance of Transmission Lines in Insurgency prone area in Manipur: |
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During 10th TCC meeting of NERPC, POWERGRID requested to consider deemed availability of 132 kV Jiribam- Aizawl line and 132 kV Jiribam – Loktak-II line in the event of delay in restoration owing to non-availability of security in Manipur portion. This was generally agreed upon by several constituents. However, representative of Manipur informed that they would again take up the matter with Govt. of Manipur and accordingly, the Committee decided to defer the agenda item to the next TCC/RPC meeting i.e., 11th TCC & 11th NERPC Meeting.

Committee may like to discuss.

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| ITEM NO. 6.2 | Outstanding Dues of POWERGRID against NER Constituents: |
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The total outstanding as on April, 2011, is -- ₹ **64.97 Cr.**

| SI No | Name of the Constituent | Total outstanding as on 12.04.2011 (₹ in Cr.) |
|-------|-------------------------|---|
| 1 | Ar. Pradesh | 1.68 |
| 2 | ASEB (Assam) | 35.84 |
| 3 | Manipur | 9.32 |
| 4 | MeECL (Meghalaya) | 12.10 |
| 5 | Mizoram | 0.82 |
| 6 | Nagaland | 1.98 |
| 7 | TSECL (Tripura) | 3.22 |
| | TOTAL | 64.97 |

The states are requested to liquidate outstanding dues at the earliest.

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| ITEM NO. 6.3 | Status of LC required by NER Constituents : |
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Amount of available LC is lower than the required LC amount as on 12.04.2011:

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

The states are requested to enhance the LC amount.

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| ITEM NO. 6.4 | Failure of 132/33KV Transformers at ZIRO & Nirjuli Substations |
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The issue was discussed in 10th NERPC meeting also. Number of faults encountered over a period is given below-

a) Tripping of 33kV Feeders at Ziro

| SN | Feeder | Tripping (Jan'10-Dec'10) | | Tripping (Jan'11 – Mar'11) | |
|----|-----------------|--------------------------|--------------|----------------------------|--------------|
| | | Nos. | Nos. / Month | Nos. | Nos. / Month |
| 1 | Kurung- Kamey | 262 | 21.83 | 63 | 21.00 |
| 2 | Old Ziro Feeder | 192 | 16.00 | 40 | 13.33 |
| 3 | Kimin Feeder | 394 | 32.83 | 117 | 39.00 |

b) Tripping of 33kV Feeders at Nirjuli

| SN | Feeder | Tripping (Jan'10-Dec'10) | | Tripping (Jan'11 – Mar'11) | |
|----|--------|--------------------------|--------------|----------------------------|--------------|
| | | Nos. | Nos. / Month | Nos. | Nos. / Month |
| 1 | AP - 1 | 52 | 4.33 | 12 | 4.00 |
| 2 | AP - 2 | 141 | 11.75 | 14 | 4.66 |
| 3 | AP - 4 | 40 | 3.33 | 4 | 1.33 |

Arunachal Pradesh may intimate the corrective measures taken to arrest inception of faults in downstream network.

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| ITEM NO. 6.5 | ERS- SUBSTATIONS: |
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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)}, has been filed with CERC and hearing is scheduled on 26.04.2011.

This is for information of the members.

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| ITEM NO. 6.6 | Replacement of defective Insulator Strings in Transmission Lines under POWERGRID in NER: |
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During the 10th TCC meeting of NERPC, the technical necessity of replacement of insulator strings was agreed upon by beneficiary states and it was also agreed to allow deemed availability without commercial benefit to POWERGRID. POWERGRID stated that this will have serious implications in their Books of A/C. Since consensus on the issue could not be reached it was decided to defer the matter to next TCC/RPC meeting i.e., 11th TCC & 11th NERPC Meeting.

Members may kindly discuss and approve the proposal.

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| ITEM NO. 6.7 | Additional requirements of OPGW based Communication System for Central Sector Sub-stations and Generating Stations and other large generating stations in NER: |
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As per Clause No. 4.6.2 of CERC Regulations of Grid Code (IEGC), reliable and efficient Speech and Data Communication System shall be provided to facilitate necessary communication and data exchange, and supervision / control of grid. Further as per regulation any agency connecting to the grid is responsible for providing communication system up to wide band location of CTU only, thereafter up to RLDC the responsibility for communication requirement is with CTU. The requirement of communication system was deliberated in the 15th meeting of Central Advisory Committee to CERC, where the participants expressed the necessity of implementation of regulatory provisions in regard to the communication. Under ULDC Projects a mix of PLCC, Microwave and Fiber Optic Communication system were implemented to meet the requirement of communication.

Presently the frequencies of Micro Wave links are being withdrawn by DOT. Under the circumstances to meet this requirement, the available communication systems are (i) PLCC and (ii) Wideband communication system based on OPGW Fiber Optic Communication link. The PLCC system has limitation in terms of capacity, no. of hops and performance due to high attenuation and noise in the power system. Further due to frequent LILLO of lines the existing communication system gets disturbed and no. of hops increases. Presently large no. of RTU locations are communicating on PLCC.

Subsequent to the commissioning of ULDC, volume of data and no. of Substations / Generating stations have increased considerably. Numbers of hops for data transmission are increasing with expansion of network. In addition to the requirement of communication system for SCADA system, Special protection Schemes (SPS) are to be implemented and installation of PMUs is also envisaged. Each PMU requires minimum of 64Kbs band width. SPS requires transfer of signals over no. of hops. These additional requirements of communication for the existing & upcoming Substations upto 2012-13, cannot be met unless all the Central Sector Substations and Generating stations and other large generating stations are provided with OPGW based communication link.

The proposed communication links can be used by the constituents also for grid operation purpose. Imphal (State), Srikona (AEGCL) & Mokokchung (State) stations have also been included. Any other requirement of constituents can also be included in the proposal, if constituents so desire.

In view of above, it is proposed that the entire Central sector Substations and Generating stations of North Eastern Region are provided with the OPGW based Fiber Optic Network. The links where OPGW is to be provided is attached herewith at **Annexure - 6.7**. Approximately **1523 kms** of Fibre Optic along with the Terminal equipments, are to be installed. The initial Estimated Cost (Supply, Installation, and Testing & Commissioning) for these requirements is ` **34.79 Crores**.

Members may deliberate and concur the proposal.

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| ITEM NO. 6.8 | TRANSFORMATION CAPACITY AT 132 KV NIRJULI S/S : |
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Presently, Nirjuli Substation is running with a combination of 10MVA & 16 MVA transformers which are not being operated in parallel due to mismatch of Percentage Impedance. The present loading of the transformers are as follows:

- i. 16 MVA- 13MW (Max.)
- ii. 10MVA- 7 MW (Max.)

Total Maximum Load is 20 MW

The 16 MVA Transformer owned by DoP, Arunachal Pradesh will be replaced with a new 10MVA Transformer under procurement by POWERGRID.

On installation of the new 10MVA transformer, the Nirjuli S/s will be able to cater for a maximum load demand of 16 to 17 MW only & hence there may be further overloading of these Transformers if the present load demand persists.

The transformers at Nirjuli S/s are already subjected to high stresses because of frequent heavy faults in the 33 KV system of DoP, Arunachal Pradesh, and therefore further overloading may cause eventual failure of the transformers in short time.

In view of above, DoP, Arunachal Pradesh may make necessary arrangement for diversion of the load of their system from Nirjuli to some other Station or else NERPC may concur installation of one additional Transformer of 132/ 33kV, 10 MVA capacity at Nirjuli.

Committee may like to discuss

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| ITEM NO. 6.9 | Capacity Enhancement of various 132 KV Lines: |
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NERLDC requested POWERGRID to examine the possibility of capacity enhancement in following 132kV Transmission Lines for avoiding load / Generation restriction and hence to increase grid security and stability:

1. 132kV S/C Dimapur-Imphal Line
2. 132kV S/C Loktak-Jiribam Line
3. 132kV S/C Kumarghat-RC Nagar Line
4. 132kV S/C Kopili-Khandong (old) Line
5. 132kV S/C Ranganadi-Nirjuli Line
6. 132kV S/C Aizawl-Kumarghat Line

POWERGRID has to take the following actions:

- To provide additional jumper in all angle towers.
- To replace the existing lower rating CTs by higher rating CTs.

Considering the requirement, POWERGRID is to execute the above jobs for improvement of NER Grid. As such, all outages required to execute the job to be considered against System Improvement Scheme.

Members may deliberate and concur the proposal.

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| ITEM NO. 6.10 | ANTICIPATED ARREAR BILLING IN 2011-12 : |
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- i. Tariff orders for the Assets under commercial operation before 31.03.2009 for Tariff Block 2009-14, are being progressively issued by CERC. So far CERC have issued tariff orders for ATS of Kopili HEP stg-I, ATS of Loktak, ATS of AGBPP, Ranganadi – Ziro Transmission System and NER Augmentation Scheme. Tariff orders for other Assets are expected in next 2–3 months.

List of Assets for which Tariff order is yet to be issued is attached in **Annex-6.10 (i)**.

- ii. Petition for Transmission Elements under Missing Link Project which have been declared commercial after 01.04.2009 in NER, has been filed. Tariff for elements of Missing Link project is payable w.e.f. their respective dates of commercial operation.

List of Assets under Missing link project and their respective DOCO is enclosed at **Annexure – 6.10 (ii)**.

- iii. Since CERC has already completed hearing on this matter, it is also expected that CERC will issue Amendment to CERC (Terms & conditions of tariff) regulation 2009, to enable the Transmission Licensee to recover the Tax from beneficiaries, as per the Tax Rate applicable for relevant Finance Act.

Tentative arrears arising out of above three accounts, for FY 2009-10 & FY 2010-11 has been estimated till March' 11 at ` **44.35 Crore**. Constituent wise apportioned amount to NER constituents is placed at **Annexure -6.10 (iii)**.

This is for information of the members please.

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| ITEM NO. 6.11 | CERC REGULATIONS ON SHARING OF INTER-STATE TRANSMISSION CHARGES AND LOSSES : |
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CERC Regulations on Sharing of Inter-State Transmission Charges and Losses, is scheduled to come into effect from **01.07.2011**. CTU had submitted Draft of Transmission Service Agreement (TSA), Revenue Sharing Agreement (RSA) and Billing,

Collection & Disbursement (BCD) Procedures to CERC. As per the said Regulations, the signatories to the TSA shall be DICs and ISTS Licensees. The DICs mean the user of ISTS and shall include all Generators, State Transmission Utilities (STUs), SEBs etc.

The bill for the use of ISTS, shall be raised by the CTU on the concerned DICs. The SEBs / STUs may recover the transmission Charges for the use of ISTS from the Distribution Companies and pay to CTU. The payment by all the DICs for the Monthly transmission Charges shall be executed through Real Time Gross Settlement (RTGS).

The STUs may take advance action for putting in place the requisite infrastructure / facility for payment through RTGS and also make back to back arrangement with the Distribution Companies.

The activity of signing of the TSA / RSA shall commence immediately upon approval of the draft of said documents by CERC

This is for information of the members

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| ITEM NO. 7.0 | Agenda items related to Manipur |
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| ITEM NO. 7.1 | Shortage of power to Manipur during complete shutdown of Loktak HEP: |
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During the 61st OCC meeting held on 08.04.2011 at Guwahati, **it was decided to grant complete shutdown of Loktak HEP w.e.f. 1st May, 2011 to 15th June, 2011 (for 45 days)** for repairing of damaged Draft Tube Gate (DT Gate) and underwater structure.

In the meeting, Member Secretary suggested that if other states could surrender some of their unallocated share in favour of Manipur during the complete shutdown period of Loktak HEP it would help Manipur to overcome the power shortage to some extent and also take care of their commercial interests. He opined that the best option is to give the unallocated share from R.C. Nagar GBS (which is 12 MW) to Manipur during peak hours. In this regard NERPC Secretariat has already written to all the constituents to give their consent for giving their unallocated share in RC Nagar GBS to Manipur during peak hours during the shutdown of Loktak HEP.

Committee may discuss.

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| ITEM NO. 7.2 | Issue of Forest Clearance by Mizoram Government for Tipaimukh H.E. (M) Project (1500 MW) in Manipur and information of JVC: |
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Manipur informed that the project being located in Manipur – Mizoram border is going to affect forest land in both the states. In case of Manipur, the proposal for Forest Clearance has been recommended by the Govt. of Manipur to the concerned Ministry on 23.03.2009. However, in case of Mizoram the proposal is yet to be recommended to

the Ministry of Environmental & Forest (MoEF). The Govt. of Mizoram has been requested at different levels to expedite the issue. But till date their response is being awaited.

Formation of JVC for Tipaimukh HEP may be expedited.

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| ITEM NO. 8.0 | Agenda items related to Mizoram |
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| ITEM NO. 8.1 | Status of Rokhia Unit V & VI: |
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Tripura may intimate the current status.

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| ITEM NO. 9.0 | Agenda items related to Assam. |
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| ITEM NO. 9.1 | New Transmission Policy and need of signing of Bilateral transaction for energy exchange below 132 KV level: |
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Assam informed that the new transmission policy of sharing transmission charges on point of connection (PoC) method is scheduled to be implemented nationwide with immediate effect. There are number of such exchange points of Assam with Nagaland and Ar. Pradesh where energy exchange is taking place at below 132 KV level on either way. Following the deliberations and decision of 10th NERPC meeting held at Aizawl on 8th & 9th February, 2011. Nagaland & Ar. Pradesh were requested to come forward for settlement and signing of bilateral agreement for such exchanges on priority basis since the proposed implementation date is very near. But no response is coming from the other side till now. In the absence of any response it is presumed that these states are not interested to continue such exchanges below 132 KV level and accordingly necessary steps for discontinuation of such transaction should be finalized.

Committee may kindly discuss.

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| ITEM NO. 10.0 | Agenda items related to NERPC |
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| ITEM NO. 10.1 | Presentation on Point of Connection Charges: |
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NERPC may like to give the presentation on PoC

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| ITEM NO. 10.2 | Auditing of Board Fund of NERPC: |
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As decided in the 10th NERPC meeting Auditing of Board Fund of NERPC for the F.Y from 2008- 2009 to 2010 – 11 have been conducted on 4th, 5th & 27th April, 2011 by officers from Me. ECL, POWERGRID and NEEPCO. The Audit Report is enclosed at **Annexure 10.2**.

For information only.

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| ITEM NO. 10.3 | Contribution of Board Fund of NERPC by Nagaland: |
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During the Audit of Board Fund of NERPC by Auditors it was found that Nagaland has not paid the Board Fund of NERPC for the F.Y 2008 – 2009. Nagaland is therefore requested to make the payment of ` 25000- for the above period.

Nagaland kindly make the payment at the earliest.

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| ITEM NO. 10.4 | Contribution of Board Fund of NERPC: |
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ASEB has been unbundled into 3 corporations (Generation, Transmission & Distribution) to form APGCL, AEGCL & APDCL and all the 3 corporations are members of NERPC. It is therefore requested that each of the above corporations may contribute to Board Fund of NERPC separately instead of one utility which has been followed in the past. Hence each corporation may contribute ` 50000/ for the F.Y 2011 – 2012. Similar practice shall be followed in respect of other states also as and when unbundling takes place

Committee may discuss.

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| ITEM No. 10.5 | 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.

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| ITEM NO. 11.0 | Any other items: |
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With permission of the Chair.

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| ITEM NO. 12.0 | Date & Venue of the next meeting |
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The next meeting of TCC & NERPC is proposed to be held in September/October, 2011. Exact dates and venue shall be intimated later. As per roster NTPC will be the host for the 12th TCC/RPC Meetings