



सत्यमेव जयते

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

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No. NERPC/AS/OCC/2008/ 3895-930

Date: 19th December, 2008

To

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

Sir,

Sub: Minutes of the 33rd OCC Meeting held on 10th December, 2008 at Shillong.

The Minutes of the 33rd OCC Meeting of NERPC held on 10/12/2008 at NERPC Conference Hall, Shillong is enclosed for favour of kind information and necessary action please.

Encl: As above

भवदीय / Yours faithfully,

(Manjit Singh)

सदस्य सचिव / Member Secretary

Copy to:

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

North Eastern Regional Power Committee

MINUTES OF THE 33rd

OPERATION COORDINATION SUB-COMMITTEE MEETING OF NERPC

Date: 10/12/2008 (Wednesday)

Time: 10:30 hrs

Venue: “NERPC Conference Hall”, Shillong.

The List of Participants in the 33rd OCC Meeting is given in Annexure – I

Sh. Manjit Singh, Member Secretary, NERPC welcomed all the participants to the 33rd OCC Meeting. He however expressed concern about continuous non-participation by some of the NER constituents in the OCC sub-Committee meetings of NERPC. He said that due to lesser participation, many important operational issues relating to smooth operation of the interconnected grid cannot be resolved and concluded for longer periods. He said that it is the OCC forum wherein the NER constituents are able to meet much frequently and address the issues relating to secured operation of the grid, actively deliberate and take decisions most appropriately for their implementation thereof and therefore hoped that all constituents shall endeavor to attend the sub-Committee meetings of NERPC regularly in the interest of better operational planning and optimum resource utilization. While briefly summarizing the power position of the region, he said that during November 2008 the system frequency profile recorded improvement over the previous month. The system frequency remained below 49 Hz for 0.31% compared to 9.13% of the time in October 2008. The average frequency improved to 49.54 Hz compared to 49.43 Hz in October 2008. The minimum frequency in November 2008 was 48.60 Hz and maximum frequency was 50.59 Hz as against corresponding values of 48.61 Hz and 50.71 Hz in the previous month respectively. The system frequency was within the IEGC range of 49 to 50.5 Hz for 99.69% of time in November 2008 compared to 90.87 % of time in the previous month.

He further stated that high voltages at 400 kV substations were encountered at Balipara, Bongaigaon and Misa where maximum voltage observed was 430 kV, 430 kV and 427 kV respectively. Amongst 220 kV substations, maximum voltage of 237 kV was recorded at Salakati and 240 kV at Kathalguri.

He stated that as per the data made available by NERLDC, energy availability in November 2008 reduced to 667.92 MUs a drop of 11.14% over the previous month from that of 751.638 MUs in October 2008, while energy requirement drop was 11.54% i.e. from 870.152 MUs to 769.77 MUs over the previous month. The peak availability rise in demand met was highest of 15.25% in Arunachal Pradesh followed by Mizoram (9.80%), and Nagaland (5.19%) over the previous month. The drop in peak availability observed in Tripura, Meghalaya and Assam was of the order of 21.79%, 18.42 % and 0.927% respectively over the previous month. The regional peak availability dropped to 1326 MW in November 2008 from 1358 MW in the previous month. He said that regional demand is expected to rise in the coming months on account of winter season, Christmas festival, examinations in schools and colleges. The hydro availability will also get reduced. He therefore requested utilities to ensure maximization of capacity availability and explore means for arranging bilateral power purchase from surplus utilities to meet the shortage and avoid overdrawl at system frequency lower than the permissible level of 49.0 Hz.

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

A. CONFIRMATION OF MINUTUTES

CONFIRMATION OF MINUTES OF 32nd MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

Executive Engineer (Operation), NERPC said that the minutes of 32nd meeting of Operation Sub-committee held on 11th November, 2008 were circulated vide letter No. 103/2/NERPC/OCC/2008/648 – 84 dated 21st November, 2008. NEEPCO vide letter

dated 27.11.2008 had sent clarifications on items C.2 and D.2 of the minutes. The amended portion of the same was circulated vide letter No. 103/2/NERPC/OCC/2008/3426 – 61 dated 28th November, 2008 No comments were received from any constituent.

With above-mentioned correction, the minutes of 32nd OCC Meeting were confirmed.

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

B. Operational Grid Discipline and Operational Planning

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

Member Secretary, NERPC stated that the system performance frequency profile in November 2008 was improved compared to that from the previous months. He requested constituent states to keep their availability maximized from own sources and through making arrangement of assistance from other sources in advance for the winter season. GM, NERLDC intimated that total STOA sale of energy by NER states to outside the region in November 2008 was 77.9 MUs compared to 47.7 MUs in same month last year. The STOA sale in November 2008 was higher by Tripura, Assam, Nagaland and Arunachal Pradesh of the order of 36.5 MUs, 16.1 MUs, 13.7 MUs and 9.1 MUs respectively and was relatively higher compared to that during the same month in last year which was 35.3 MUs, 0.0 MUs and 5.3 MUs and 7.1 MUs in November 2007 respectively. During the same month i.e. November 2008, Tripura State had also to purchase power from outside sources through STOA to the extent of 6.4 MUs to meet its requirement.

The detailed presentation by NERLDC is at Annexure – II.

FOLLOW UP ACTION

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

Executive Engineer (Operation), NERPC said that during the 32nd OCC meeting held on 11th November, 2008 NERLDC had intimated that study was conducted by them and that the results thereof required to be seen and tallied by NEEPCO/ASEB. The sub-committee had decided that this might be discussed between NERLDC, ASEB and NEEPCO in a separate meeting. The meeting was then held on 18th November 2008 at NERLDC in which NEEPCO & NERLDC representatives were present.

GM, NERLDC said that in the meeting ASEB representative could not be present. Therefore, a report was jointly finalized and signed by NERLDC and NEEPCO was prepared (enclosed at Annexure-C.1). The sub-Committee had examined the report and results were discussed in detail in this 33rd OCCM of NERPC.

The sub- committee noted from the report that reactive compensation presently available is a 50 MVar line reactor at Misa end of 400 kV Misa-Kathalguri line charged at 220 kV. The reactor being of 400 kV level charged at 220 kV the effective compensation available is only 14 MVar. This results in around 25 kV voltage rise along the line and open end voltage at Kathalguri touches around 245 kV considering 220 kV voltage at Misa end. Such voltage at Kathalguri end creates difficulty in synchronization of the line. The study which was conducted using PSS-E package of PTI had indicated that with the provision of 220 kV, 25 MVar line reactor at Kathalguri end a voltage rise along the line at Misa end becomes of the order of 10 kV. NERLDC representative stated that with voltage rise to this extent of 10 kV, the line could be easily synchronized at Kathalguri end with voltage of the order of 230 kV (220 + 10)

Based on the above study results, the sub-Committee deliberated issue of providing a reactor of size, rating and location as recommended above by the study group so as to overcome the prevailing over voltage problem. The sub-Committee suggested that dynamic behavior of system under transient conditions may also be observed by conducting a dynamic over voltages study with the proposed arrangement and requested NERTS to look into the same. ***NERTS representative stated that the matter would be taken up with their corporate office and they would revert back soon.***

C. 2. Preparation of generation targets for year 2009 - 10

During the 32nd OCC meeting the sub-Committee had noted the details of generation maintenance plan and likely unit-wise availability of their units furnished by NEEPCO, NHPC and APGCL for the period April 2009 to March 2010. Later Tripura State vide letter dated 14.11.2008 had furnished the necessary details (details given by above utilities enclosed at Annexure-C.2). The sub-Committee in this 33rd OCC meeting noted that the necessary information was not received from the Arunachal Pradesh, Meghalaya, Mizoram, Manipur & Nagaland as sought vide NERPC vide letter No. 130/1/OCC/NERPC/2008/1234 – 23 dated 23rd October, 2008. The sub-Committee requested these states to furnish the necessary information. Meghalaya and Tripura representatives present in the above meeting agreed to expedite sending the necessary details to NERPC soon.

The sub-Committee, however, concurred to the generation programme submitted by all other utilities as above for further needful action as discussed in the earlier OCCMs.

C. 3. Revival of 132 KV PK Bari-Dharmanagar- Dullavcherra- Panchgram link

It was noted by the sub-Committee that as intimated by NERLDC vide letter dated 25.11.2008, the 132 kV Kumarghat-Aizawl line was under breakdown condition since 22.11.2008 due to tower collapse. GM, NERLDC stated that tripping of this line is more frequent than for other elements in the grid. The tripping of this line

results in backing down of Tripura generation, AGTPP (ISGS) generation and curtailment of bilateral transactions of Tripura. The sub-Committee observed that this phenomenon results in bottling up available generation capacity under shortage conditions that prevail in the NER grid.

Upon query by members from PGCIL representative about cause of frequent tripping of the line in the vicinity, he said that reason mainly was due to frequent failure of the insulators, despite the fact that these have not completed the specified period of useful-life span. The sub-Committee therefore suggested PGCIL to take up matter suitably, with the supplier about remedial solution.

Further, Tripura State vide fax dated 26.11.2008 had intimated that proposal for strengthening and renovation of the 132 kV Dharmanagar-Dullavcherra-Panchgram lines have been considered under intra-state transmission scheme for which PGCIL have been entrusted for DPR preparation under financial assistance of DONER.

The members therefore, enquired PGCIL representative about status on the work stated to have been entrusted to them. PGCIL could not indicate the position in this regard and said it would be looked into and would inform about it.

The sub-Committee was also apprised of the past discussions in NERPC forum on revival of the 132 kV PKBari-Dharmanagar-Dullavcherra-Panchgram link to evacuate power from RC Nagar-Tripura subsystem. In view of the past discussions, the members were of the opinion that issue pertaining to revival of the link, required to be resolved between Tripura and Assam bilaterally.

While explaining about insufficiencies being encountered in revival of the link, NERLDC indicated that the protection and switchgear requirements on 132 kV P .K. Bari- Dharmanagar-Dullavcherra-Panchgram link at Dharamanagar end (Tripura side) and at Dullavcherra (Assam side) need to be addressed on priority basis so that the link can be put into operation for transfer of power on it. NERLDC further intimated that existing details concerning availability/operative capability

of circuit breaker, provision of CT with ratio and protection provision on Tripura side of the link as appropriate to that at Dullavcherra (Assam) end and similar details on Assam side as appropriate to that required at Dharamanagar (Tripura) end are not known precisely so as to address the remedial solution for revival of the link.

The sub-Committee requested that Tripura and Assam States may furnish the above details to NERLDC/NERPC early so that further efforts, as appropriate are made towards revival of the link at the earliest.

C. 4. Transformer at Nirjuli Sub-station

During 32nd OCCM, the issue relating to failure of 10 MVA, 132/33 KV Transformer at Nirjuli S/S had come up for discussion. The sub-Committee had observed therein that the transformer last failed on 27.5.2008 following a fault on 33 kV side in Arunachal Pradesh system which had resulted damage on one phase of the transformer. It was also noted that transformer had been subjected to innumerable transient trippings leading to severe stresses in the equipment at Nirjuli S/S of PGCIL.

NERTS representative stated that on inspection of the transformer in presence of the original manufacturer of the transformer it has been found that the transformer is now beyond economical repair and that the manufacturer has expressed its inability to repair the transformer to that extent due to lack of infrastructure for such old an model of transformer. NERTS therefore proposed that the above damaged transformer should be replaced with a new transformer of the same type and rating and to de-capitalize the damaged transformer from the existing asset of POWERGRID.

The sub-Committee deliberated the issue. As representatives from Arunachal Pradesh, Manipur, Mizoram and Nagaland States were not present, the rest of the members of the OC sub-Committee present in the meeting agreed to the proposal that the in view of the details as brought out above and in the interest of smooth operation of the transmission grid network, the damaged transformer requires to be replaced with the new one and the same would accordingly have to be de-capitalized from the existing assets of POWERGRID.

D. NEW ITEMS

D. 1 Statewise anticipated peak demand/requirement, shortage for December, 2008 and January, 2009.

Executive Engineer (Operation), NERPC stated that Govt. of Mizoram vide letter dated 19.11.08 had intimated that in view of substantial rise in demand of power of the state being anticipated on account of Christmas and New Year Festival season, the state would require around additional 10 MW power from 22.12.2008 to 02.01.2009 during 16:30 hrs to 22:30 hrs. The state had therefore requested Tripura State for reciprocating the action to arrange additional assistance to it on similar lines as Mizoram had done so during Durga Puja 2008 festival. The Tripura state and utilities are requested to extend mutual co-operation to ensure smooth grid operation during the above festival season.

The sub-Committee based on above and in line with the deliberations in 32nd OCCM of NERPC regarding anticipating the demand and requirements, the same was worked out for December, 2008/January 2009 as follows:-

December, 2008

January, 2009

S.No.	State	Requirement (MW)	Availability (MW)	Requirement (MW)	Availability (MW)
1	Arunachal Pradesh	70	60	70	60
2	Assam	775	620	775	690
3	Manipur	110	95	110	95
4	Meghalaya	240	220	240	220
5	Mizoram	70	55	70	55
6	Nagaland	90	80	90	80
7	Tripura	130	105	130	105
	Total	1400	1155	1330	1220

D. 2 Generation Planning (ongoing and planned outages)

The Sub-committee discussed status on ongoing forced/plan outages during the region and finalized schedule of plan outages for the generating units for December, 2008/ January, 2009.

The Maintenance Program for Generating Units proposed by NEEPCO for its generating stations for the month Jan/Feb. 2009 was discussed and finalized as given below:

The planned shutdown in respect of the following Generating units was approved by OCC Sub-committee of NERPC during the 33rd OCCM held on 10th December, 2008 at NERPC Office.

Sl. No	Name of Generation Station	S/D Date	Units No	Purpose	MW affected	Agency
1.	Khandong	03.01.09 to 03.02.09	#2	AMP	20 MW	NEEPCO
2.	Kopili H.E.P	27.01.09 to 15.02.09	#4	AMP	50 MW	NEEPCO
3.	Doyang H.E.P	15.01.09 to 04.02.09	#1	AMP	25 MW	NEEPCO

The Utility taking shutdown as per the enclosed schedule shall confirm program one day in advance to NERLDC and co-ordinate with NERLDC just prior to taking the shutdown to ascertain prevalence of favourable grid conditions for taking up the necessary works.

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

In pursuance of discussions in the earlier OCC meetings of NERPC for proposal by NEEPCO for installation & commissioning of a new higher capacity gas liquid filter separator at the gas off-take point for the plant by M/S OIL India Limited, NEEPCO representatives informed that the necessary arrangements have been made to carry out the necessary work on 12.12.2008. This activity would require total shutdown of Kathalguri (AGBPP) plant for 12 hours on this day. NEEPCO therefore requested OCCM to agree to the shut down for completion of the said work. AEGCL representative stated that NEEPCO might notify the above shut down in press.

NEEPCO representatives expressed that this might not be required as the NERPC forum is an authorized platform to take decisions on the technical matters pertaining to the secured grid operation of the region. The rest of the sub-Committee members were of the opinion that the proposed shut-down may be discussed to evolve a suitable action plan so that the grid continues to operate in safe manner and with proper load-generation balance observed during the proposed shut-down period. The sub-Committee discussed the matter in detail and in view of prevailing winter season and rising trend of power requirement thereof approved the proposed shutdown as per the following action plan:

1. The shutdown period will be from 5 AM to 5 PM on 12.12.2008
2. All the day ahead bilateral and transactions including those through Power Exchange of NER constituents shall be stopped during the shutdown period.
3. NEEPCO will generate additional power of the order of 50 MW from Kopili H.E.P during the shutdown period. NERLDC shall schedule the generation accordingly. All generating utilities of the region would take steps to keep their generation maximized. MeSEB will generate additional 30 MW during the above mentioned period.
4. NEEPCO, M/s OIL India Ltd shall ensure that the work is completed within the above mentioned stipulated time period so that the Kathalguri plant is available during evening peak hours of 12.12.2008.
5. Before commencement of the work on 12.12.08, NEEPCO shall ensure to obtain concurrence from NERLDC at least half an hour prior to take the above shutdown (i.e. by 4:30 AM).

D. 3 Outage Planning for Transmission elements and related matters

The sub-Committee discussed programme for transmission line outages for December, 2008/ January, 2009. as proposed by PGCIL/Constituents were finalized as per Annexure – D.3

E.E (O), NERPC enquired from PGCIL the status of 400 KV Balipara – Ranganadi Ckt – 1 which was out since 15:38 hrs on 22.09.2008 due to tower collapse at Loc. No 43 due to sudden change of river course.

PGCIL informed that Ckt – II was on ERS and they have taken action to restore back the tower collapse and it may take a month's time to complete.

D. 4 Review of Grid performance during October 2008

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

The presentation is enclosed at Annexure- II

D 5 Major grid disturbances in the previous month (November, 2008)

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

D 6 Any other item

D 6.1 Finalization of the draft Operating Procedures Document for NER

Executive Engineer (Operation), NERPC informed that AEGCL and TSECL vide fax letters dated 10.11.2008 had furnished comments/suggestions (copy at Annexure-D 6.1) to NERLDC on the draft “Operating Procedures for N.E.Region” prepared by NERLDC and which was circulated in the earlier OCCM for finalizing the same, the comments on which from NER constituents were awaited.

NERLDC informed that all the comments/suggestions by the above constituents have been studied. The same were also noted by the sub-Committee. The sub-Committee discussed the same item-wise. After deliberation the sub-Committee requested NERLDC to incorporate the comments furnished by the constituents at appropriate portions of the document suitably. NERLDC agreed to the same. The comments of any of the other constituents had not been received till then. The other constituents were requested to furnish the same early. In case no further views/suggestions were received the sub-Committee agreed that the document may be published by 31.12.2008 and the updated operating procedures made operative w.e.f. 1.1.2009.

D 6.2 Implementation of the report of the Committee on “Manpower, Certification and Incentives for System Operation and Ring Fencing Load Despatch Centres”.

Executive Engineer (Operation), NERPC stated that Assam vide fax dated 26.11.2008 had intimated that the contents of the report of the Committee on “Manpower, Certification and Incentives for System Operation and Ring Fencing Load Despatch Centres” may be discussed particularly in relation to the specific actions to be taken by SLDC for implementation of the report.

NERLDC had intimated that action plan to implement the above report has been intimated by Govt. of India, M.O.P. vide OM No. 13/7/2008-OM dated 4.11.2008. NERLDC representative stated that the action points for implementation by the respective State Governments are included in the above mentioned O.M. (enclosed at Annexure- D 6.2) which was also presented in this OCCM. The sub-Committee discussed and expressed that this shall require to be followed by the concerned agencies implementing the plan and as per the schedule indicated against target of completion of the action.

D. 7 Date and Venue of next OCC

The 34th OCC meeting of NERPC is scheduled to be held on 12th January, 2009 (Monday) at NERPC Conference Hall, Shillong.

Annexure-I**List of Participants in the 33rd OCC meeting held on 10/12/2008**

Venue : NERPC Secretariat, Shillong

Sl. No	Name & Designation	Organization	Contact No. /e-mail ID
1	No Representatives	Arunachal Pradesh	
2	Sh.A.K. Saikia, Sr. Mgr	SLDC, AEGCL (Assam)	9864116176
3	No Representatives	P&E, Manipur	9436022941
4	Sh. T. Gideon, AEE	SLDC, MeSEB (Meghalaya)	9863063375
5	Sh.JAW Pariat, AEE	SLDC, (Meghalaya)	9436116496
6	No Representatives	P&E, Mizoram	
7	No Representatives	Nagaland	
8	Sh. A.Gan Chaudhuri	Tripura	9436139311
9	Sh. L.K.Kanungo, GM	NERLDC	9436302725
10	Sh. R. Sutradhar, CM	NERLDC	9436302714
11	Sh. P. Khrishnamurthy, Mgr	NERLDC	
12	Sh. S.K. Saha, Dy. Manager	NERLDC	9436335371
13	Sh.P.Krishnamurthy, Manager	NERLDC	9436302716
14	Sh. Utpal Sharma, CM	NERTS	9436302987
15	Sh. Bhaskar Goswami, SM	NEEPCO	9436163983
16	Sh. B.R.Bhattacharjee, Mgr	NEEPCO	9436122456
17	Sh. S.K. Sinha, Engineer	NHPC	09810531437
18	Sh D. Kumar, Asstt. Mgr	NHPC	09436295244
19	Sh. Manjit Singh, MS	NERPC	9436706436
20	Sh. B. Lyngkhoi, AS	NERPC	9436163419
21	Sh.A.K.Jain, SE (Coml)	NERPC	0364-2520038
22	Sh.Satbir Singh, EE	NERPC	
23	Sh. S.M.Aimol, AEE	NERPC	9863311203
24	Sh. G. Medhi, AE	NERPC	9863317776

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