

North Eastern Regional Power Committee

MINUTES OF THE 41st

OPERATION COORDINATION SUB-COMMITTEE MEETING OF NERPC

Date: 12/08/2009 (Wednesday)

Time: 10:30 hrs

Venue: "NERPC Conference Hall", Shillong.

The List of Participants in the 41st OCC Meeting is given in **Annexure - I**

Sh. Manjit Singh, Member Secretary, NERPC welcomed all the participants to the 41st OCC Meeting of NERPC. Member Secretary briefed about the performance of the grid during the month of July, 2009. While highlighting about the system performance during the month of July, 2009, he said that the performance of the grid is better than previous month of June, 2009 and this is mainly due to increased hydro availability in the region, and even thermal generation has improved. The regional peak demand in July 2009 was 1665 MW as compared to 1620 MW, an increase of 2.81 % over the previous month. The energy requirement was 814.41 MUs compared to 770.96 MUs in previous month. The regional energy availability in July 2009 was 709.34 MUs as compared to 672.80 MUs in previous month- an increase of 5.43 % over the previous month. Further, the average frequency during July, 2009 was 49.67 Hz compared to 49.45 Hz in the last month. Import of power from neighbouring region was also get reduced due to better generation availability, and rather the region has exported to the quantum of 81 MUs. He further expressed concern over the continuous high voltages at Misa, Bongaigoan and Balipara 400 KV Sub-stations and stated that installation of Reactor at Kathalguri is a necessity and should be done immediately. The low voltage at Aizawl sub-station which was prevailed for many months should be looked into by PGCIL. He also informed that the pH factor at Kopili reservoir should also be discussed in detail during the meeting so that prolonged outages of the hydro machines at the stations due to this factor could be minimised.

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

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 40th MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

Superintending Engineer (Operation), NERPC stated that the minutes of 40th meeting of Operation Sub-committee held on 13th July, 2009 were circulated vide letter No. NERPC/AS/OCC/2009/2071-106 dated 17th July, 2009. PGCIL informed that under Item No. C.1 "this issue should be referred to the TCC/RPC meetings for final consideration" may be recorded on the Item. After deliberation the sub-Committee agreed to include the sentence at Item C.1 (page – 4) as above.

With the above modifications, the minutes of the 40th OCC Meeting were confirmed, as no other observations or comments were received from any of the other constituent members.

ITEMS FOR DISCUSSION

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

The sub-committee noted about the grid performance during the month of July, 2009 as follows:-

As per the data made available by NERLDC, the average frequency during July, 2009 was 49.67 Hz compared to 49.45 Hz in the previous month. The minimum frequency in July, 2009 was 48.74 Hz (20.07.09 at 21:22 hrs) and maximum frequency was 50.57 Hz (09.07.09 at 06:03 hrs) as against corresponding values of 48.70 Hz and 50.59 Hz in the previous month respectively. The system frequency remained within permissible range of 49.2 Hz to 50.3 Hz for 94.61 % of the time, below 49.2 Hz for 5.07 % and above 50.3 Hz for 0.32 % of time. For previous month i.e. June 2009, the system frequency remained within range of 49.0 Hz to 50.5 Hz for 80.58 % of the time, below 49.0 Hz for 18.93 % and above 50.5 Hz for

0.49 % of time. The regional peak demand in July 2009 was 1665 MW as compared to 1620 MW an increase of 2.81 % over the previous month. The energy requirement was 814.41 MUs compared to 770.96 MUs in previous month. The regional energy availability in July 2009 was 709.34 MUs compared to 672.80 MUs in previous month- an increase of 5.43 % over the previous month. The rise in demand met was highest of 7.89 % in Nagaland followed by Mizoram 7.02 %, Meghalaya 6.25 % and Manipur 5.13 % over the previous month. The drop in demand met was recorded in Tripura 5.59 % followed by Arunachal Pradesh 1.52 % over the previous month viz. June, 2009.

High voltages at 400 kV substations were encountered at Bongaigoan, Balipara and Misa where maximum voltage observed was 422 kV, 433 kV and 434 kV respectively. No high voltages at 132kV S/S were however observed. Aizawl 132 kV S/stations experienced minimum voltage of 114 kV.

Thereafter, NERLDC presented the grid performance during July, 09 and the details of which are enclosed at **Annexure-II**.

The Sub-committee noted as above.

FOLLOW UP ACTION

C. 1. Installation of Line Reactor at Kathalguri end of 220kV Misa – Kathalguri Line

Regarding the installation of the reactor at Kathalguri, AGM, PGCIL informed that the detailed Layout/Engineering drawings for the location has been received from NEEPCO and the same is in the process of examination. He suggested that assets' ownership of the proposed reactor equipment requires to be established between either of NEEPCO or PGCIL based on which procurement / installation / maintenance related issues would need to be firmed up. The matter may therefore be discussed and taken up with the NER Power Committee for taking decision in this regard.

The sub-Committee discussed the matter on various aspects concerning

implementing agency (i.e either of NEEPCO and PGCIL) for the proposal, cost sharing mechanism and O&M of the proposed reactor equipment. The sub-Committee members were generally of the view that as the scheme is in the interest of improved operation of the interconnected NER grid system, CTU (i.e. PGCIL) may implement the scheme on similar pattern as that of the ongoing system strengthening schemes and cost sharing, O&M done according to the methodology being followed for rest of the ISTS network in NER.

After deliberations, the Sub-committee requested PGCIL to prepare and submit tentative Cost Estimates for procurement and installing the above reactor and its associated Isolator (for use of bus reactor also) so that the same could be discussed and finalized in the next TCC/RPC meetings for taking final decision on the matter.

C. 2.1 Non-functioning of SCADA in Arunachal Pradesh state

NERPC informed that as per the decision in the 40th OCC Meeting, Arunachal Pradesh vide fax letter dated 30.07.2009 had furnished the contact details of BSNL officials at Shillong for linking up the Shillong – Itanagar leased line. NERPC vide letter dated 30th July, 2009 had written to GM, BSNL Shillong to take up the matter for restoring this leased line at the earliest.

Subsequently, BSNL after attending the work and upon verification vide letter No DE (SH) /09-10 dated 4.8.2009 (copy at **Annexure C.2 (i)**) has intimated that modem at Shillong end installed at PGCIL premises has been found faulty and needs replacement. Arunachal Pradesh/PGCIL are therefore required to arrange for the replacement of modem so that line is able to be finally made through for restoration of data transfer.

NERLDC informed that the modem installed at Shillong BSNL premises (towards PGCIL end) is not functioning, instead of modem in PGCIL premises as mentioned by BSNL. Further, they informed that the entire leased line from SLDC, Itanagar to PGCIL, Shillong belong to Arunachal Pradesh and therefore Arunachal Pradesh should take up with BSNL to replace the faulty modem at BSNL premises.

On the request of Arunachal Pradesh, PGCIL agreed to provide the particulars of the firm (vendor), modem specification details of compatible modem for procurement by Arunachal Pradesh and handing over the same to BSNL at Shillong end for its installation so that the leased line and data transfer between NERLDC and SLDC, Itanagar are restored early.

The sub-Committee noted as above.

C. 3 Installation of Under Frequency Relays (UFRs) in NER

The total load relief distribution amongst the constituents under Frequency in NER as recommended by TCC/OCCM of NERPC are as follows:

UFR contribution recommended by TCC/OCCM of NERPC

(Figures in MW)

Load relief	Stage-I (48.8 Hz.)	Stage-II (48.5 Hz.)	Stage-III (48.2 Hz.)	Total
Quantum	60	30	30	120

Distribution of load relief	Ar.Pr.	Assam	Manipur	Mizoram	Meghalaya	Nagaland	Tripura	Total
Stage-I (48.8 Hz.)	3	35	3	3	8	3	5	60
Stage-II (48.5 Hz.)	-	15	-	-	8	-	7	30
Stage-III (48.2 Hz.)	-	15	-	-	8	-	7	30

Upon query by Assam that whether the UFR relays are to be procured by individual States or through Central procurement process, it was clarified that the UFRs procurement and related installation work forms part of system of each of the individual State of NER based on the requirement (load relief distribution) of each of the concerned States. Therefore, in line with the recommendation of Special TCC meeting held on 3rd July 2009 at Guwahati the NER States and subsequent 40th OCC meeting of NERPC, the NER states may identify the feeders so as to achieve recommended load relief as above to implement the provision for UFRs. Assam representative informed that regarding identification of feeders for obtaining necessary load relief through the UFRs is under process and the same would be completed by September, 2009. Meghalaya representatives stated that the necessary details were being worked out and the same would be furnished to

NERPC by end of August, 2009. The rest of the States were also requested to work out the same in respect of their systems and intimate so as to consolidate the information state-wise. The NER constituents had expressed that as the provision of UFRs is envisaged for bringing improvement in NER system operation, the procurement and cost-sharing for the UFRs should be on pooled basis.

The sub-Committee after further discussions recommended that the estimated number of UFRs worked out by the NER States as above and modalities of procurement and implementation action, the cost-sharing mechanism etc. for the UFRs may be discussed and finalized in the forthcoming TCC/NERPC meetings.

C. 4 Energy metering issues in NER

Member Secretary, NERPC informed that NERTS vide fax dated 21.07.09 (copy enclosed at **Annexure C.4 (i)**) were requested to arrange delivery of new DCDs at various sites along with the converter in response to intimation given by NERLDC vide fax letter dated 21.07.09 (copy enclosed at **Annexure – C.4 (ii)**), since the NERLDC were experiencing difficulties to obtain weekly metered data due to non-functioning of DCD at Kumarghat.

NERLDC again vide letter No. NERLDC/Comml./105/ dated 30.07.2009 (copy enclosed at **Annexure – C.4 (iii)**) had informed that due to non-availability of healthy DCDs at Samaguri, Kumarghat, Kehilipara, R.C.Nagar particularly where 'Secure' make special energy meters are installed the situation concerning collection of SEMs' data had become highly critical and therefore new L&T DCDs with converters should be immediately delivered at the sites in line with the decision taken in the 40th OCCM of NERPC.

In the meeting, NERTS, PGCIL informed that 15 nos. SEMs had been received by them with converter, whereas the 30 nos. SEMs were received without converter and 8 Nos were yet to be received. Further AGM, NERTS, PGCIL informed that out of 15 SEMs received only 13 Nos are compatible and the balance 2 Nos will have to returned for replacement with the compatible ones. The DCDs at Kumarghat

were already sent to the sites. PGCIL had further intimated schedule for Supply & Installation of SEMs & DCDs to sites (copy of the same at **Annexure C.4 (iv)**).

The sub-Committee requested NERTS, PGCIL for arranging to deliver the converters to the respective constituents' sites at the earliest as per the above schedule as this matter needed urgent attention.

PGCIL assured that matter would be treated on priority and the required metering equipment as agreed in the forum meetings and listed in the Annexure C.4 would be delivered to all the constituents at the earliest possible.

C. 5 Replacement of aging Breakers of 220 kV BTPS – Salakati I & II at BTPS end.

Assam had requested PGCIL to include the above equipment under R&M scheme.

AGM, PGCIL informed that although 220 kV sub-stations of Salakati & BTPS are maintained by NERTS but the entire accounting of O&M expenses was done by the Eastern Region. Further, the present status on ownership of assets for the sub-stations/bays by a particular agency was not precisely known.

The sub-committee requested Assam to look into the above regarding authorization of maintenance activities for the Sub-stations & bays equipment at Salakati & BTPS so that the matter discussed further for taking necessary decision in this regard. The sub-Committee also requested PGCIL to provide details of all other similar sub-stations/bays ownership in NER so that the role of agencies executing the O&M activities could be clearly established and trouble-free operation of the s/s equipments ensured.

D. NEW ITEMS

D. 1 Endangered Towers of 132 KV Panchgram – Lumshnong Inter-State line due to erosion of Gumrah river – AEGCL

Member Secretary, NERPC informed that AEGCL vide letter No. AEGCL/DGM/LDC/T-13/Pt-II/09/22 dated 23.07.2009 (copy enclosed at **Annexure D.1**) had intimated that it was looking after O&M works of the 132 kV Panchgram – Khliehriat feeder from Panchgram grid S/S up to location No. 337. As per the information the towers at location Nos. 369 & 369A are in a vulnerable condition due to erosion of the river Gumrah. Although, the necessary protection provision is made by AEGCL but erosion is taking place at such an alarming rate that collapse of the towers might take place at any moment resulting possibilities of consequent interruption in power flow over the transmission line.

The sub-Committee discussed and suggested that as the above issue pertains to the States of Assam & Meghalaya, the matter might preferably be resolved between the two States bilaterally.

D. 2 Compensation of Quantum of Hydro Power allotted to NR/WR - Arunachal Pradesh

Member Secretary, NERPC informed that Arunachal Pradesh vide letter No. CE(P)/WEZ/SLDC/NEREB-MEET/2008-09/1502-15 dated 03.08.2009 (copy enclosed at **Annexure – D.2**) have requested that quantum of Hydro Power allocated to Northern/Western Region from Lower Subansiri/Kameng Projects as per letter under reference should be compensated to NER during the lean water season with an equivalent quantum of power from Nuclear/Gas/Thermal based projects outside the NE Region considering critical situation of power crisis that prevails in NER during that period.

The sub-committee discussed the matter and concluded that as the matter is concerning about allocation quantum which is decided by GOI, Ministry of Power/CEA and is of regional interest, it recommended that NER Power Committee may be appraised about the issue in the ensuing TCC/NERPC meetings for seeking further direction.

D. 3 State-wise Anticipated peak demand/requirement, shortage for June, 2009 and July, 2009

NERPC informed that Tripura vide letter No AGM/C&SO/949-50 dated 10.08.2009 has requested for additional Power in view of ensuing Durga Puja festival during the end of the month of September, 2009.

In order to meet the demand of 175 MW from 23.09.2009 to 03.10.2009, Tripura desired to draw 60 MW from the grid, 20 MW & 15 MW through bilateral purchases from MeSEB and Mizoram respectively and 80 MW from their own generation. Tripura State representative requested that like previous years the curtesy for providing additional power for the State may be extended this year too by NER constituents during this festival in this respect and the same will be reciprocated by Tripura State to the concerned NER constituents during winter season festivals.

In view of above, the sub-Committee reviewed the anticipated peak demand/energy requirement and the sub-Committee finalized the same for the month of August and September, 2009 as given below.

S.No.	State	<u>August, 2009</u>		<u>September, 2009</u>	
		Peak Demand (MW)	Peak Availability (MW)	Peak Demand (MW)	Peak Availability (MW)
1	Arunachal Pradesh	95	75	95	80
2	Assam	950	880	950	880
3	Manipur	110	90	110	95
4	Meghalaya	270	230	290	240
5	Mizoram	65	55	65	60
6	Nagaland	90	75	90	85
7	Tripura	160	125	160/175*	145
	Region	1740	1530	1760	1585

*** For the period during 23.09.2009 to 03.10.2009.**

D. 4 Generation Planning (ongoing and planned outages)

- (i) Member Secretary, NERPC informed that CEA vide letter dated 04.08.2009 (copy enclosed at **Annexure- D.4**) had expressed concern about higher quantum of generation outages on account of prolonged forced outages of hydro & thermal generating units while high power shortage situations prevail in the interconnected grid. It had requested that expeditious restoration of such units shall therefore have to be ensured. The sub-Committee discussed the reasons and expected restoration date for such generating units that are under prolonged outage as per the following details, which were noted by the sub-Committee.

	Generating Stn.	Unit #	Capacity	Outages since	Agency	Likely date of restoration	Reasons
1	Loktak HEP	#3	35 MW	19.11.08	NHPC	Aug' 09	Under R&M and also due to Law & order problems
2	Rokhia GBS	#5	8 MW	31.07.07	TSECL	To be intimated	Major overhauling & funding constraints
3	Rokhia GBS	#6	8 MW	30.06.05	TSECL	To be intimated	Major overhauling & funding constraints
4	Umtru HEP	#2	2.8 MW	19.10.08	MeSEB	To be intimated	AMP
5	Gumti HEP	#1	5 MW	09.09.05	TSECL	To be intimated	Under negotiations with Dept. of Renewal energy
	Total		58.8 MW				

NEEPCO informed that the AGBPP (Kathalguri) STG # 2 and AGTBP (R.C.Nagar) would be restored by 18.08.2009 and end of September, 2009 respectively. No other shutdown programme of generating units was proposed for the month of September, 2009.

The sub-Committee noted as above.

(ii) **Low pH value of water inflows at Kopili Reservoir**

Member Secretary, NERPC informed that NEEPCO vide letter dated 17.03.2009 had intimated that low pH value of water (being highly acidic in nature) prevails at Kopili reservoir attributing damage to under-water parts of the machines as well as hydraulic structures. NEEPCO had intimated therein that thorough inspection works of hydraulic structures and water conductor system were carried out with the help of expert team comprising members from CEA, CWC and CSMRS, New Delhi.

On status of inspection, NEEPCO briefed sub-Committee in a presentation on this item (**copy at Annexure D.4 (ii)**). The sub-Committee noted the contents of the same. The acidic nature dominates on account of existence of mineral resources in the neighboring areas causing low pH value in the water flowing along such areas. NEEPCO intimated that for long-term solution the issue required to be addressed to minimize impact of this phenomenon.

The inspection team had suggested NEEPCO that some important parameters may be periodically monitored for early detection of those areas of the project which get endangered with higher levels of acidity requiring immediate attention so as to take partial shut downs for attending remedial action and the prolonged complete shut down of the station is avoided.

The sub-Committee discussed and the requested NEEPCO that suggestions of the inspection team as above may be followed and NER Power Committee appraised so as to address the problem for finding out long-term remedial solution.

D. 5 Outage Planning Transmission elements

The Sub-committee discussed and approved the programme of transmission line planned outages as proposed by PGCIL for the months of August/September, 2009. The same is enclosed at **Annexure D. 5**.

D. 6 Frequent tripping of 132 KV Sarusajai (ASEB) – Stage – IV (MeSEB).

NERLDC intimated that 132 KV Sarusajai – Stg – IV Ckt – II between Assam and MeSEB is frequently tripping and this caused restricted power flow in the region and also resulting in reduced system stability and security margins of the interconnected grid.

MeSEB informed that this problem is due to lightning as this area is lightning prone. The sub-Committee also noted that the Special Protection Scheme (SPS) approved by the TCC addresses this contingency. Therefore, an early implementation of the SPS would be able to minimize the impact of the contingency on system operation. The action plan for implementation of the scheme as suggested by NERLDC was discussed (enclosed at **Annexure D. 6**).

NERLDC furnished details of activities requiring wiring & activation of inter-trip schemes as enclosed at **Annexure C.3**. GM I/c NERLDC informed that for 132 kV Imphal – Imphal all the work necessary for tripping had been carried out by NERTS, PGCIL whereas, 132 kV Loktak – Ningthoukhong line the protection coupler at Loktak end was to be done by NHPC.

AGM, PGCIL informed that the works pertaining to Badarpur – Panchgram in this regard will be completed within a week's time. Also he informed that the missing link work was likely to be completed by March, 2009.

The concerned NER constituents were requested to expedite necessary arrangements for implementing the SPS as above and in line with discussions in the TC sub-Committee and OC sub-Committee meetings earlier.

D. 7 Estimated Transmission Availability Certificate (TAC) for the month of July, 2009.

The estimated Transmission System Availability for the month of July, 2009 as furnished by PGCIL was intimated as **99.1549%** as per details at **Annexure D. 7**. The constituents were requested to examine the outage details indicated by PGCIL and so as to ensure issue of certification by NERPC before the stipulated date i.e. 31.08.2009.

D. 8 Review of Grid performance for July, 2009

The data relating to regional generation, inter-regional energy exchange, average frequency during the month of July, 2009 in relation to June, 2009 data is as below:

	<u>During July' 09</u>	<u>During June' 09</u>
1. The Total Generation(gross) in NER:	796.075 MU	682.319 MU
2. Total Central Sector Gen (gross) in NER:	501.470 MU	417.092 MU
3. Inter-regional energy exchange:		
(a) NER – ER :	80.92 MU	13.38 MU
(b) ER – NER :	49.89 MU	53.20 MU
(c) Net import :	-39.03 MU	39.82 MU
4. Average frequency :	49.67 Hz	49.45 Hz

D. 8 Major grid disturbances in the previous month (July , 2009)

There was no major grid disturbance during the month of July, 2009.

(i) However, NERLDC had informed that at 0604 Hrs of 21.07.2009, the 132 KV Dimapur – Imphal line tripped on distant protection causing power interruption to part of Manipur. In order to arrange power supply to Imphal, NERLDC has coordinated with DOP, Nagaland and power was extended from Kohima at 0656 Hrs. Further Loktak which was having no scheduled generation was also brought to bar at 0702 Hrs. However, at 0704 Hrs, 132 KV Kohima – Karong was hand tripped by DOP, Nagaland at Kohima without prior intimation to NERLDC resulting tripping of Loktak unit. Loktak again synchronized unit #1 at 0715 Hrs and extended power to Imphal in isolation. At 0807 Hrs, Imphal opened 132 KV Imphal – Ningthoukhomg line at Imphal inadvertently causing Loktak unit to desynchronized. Finally, Imphal received power from Kohima at 0850 Hrs and Loktak system synchronized with main grid at 0933 Hrs at Loktak and thereby normalizing power supply to Manipur.

(ii) Also, NERLDC has informed that at 1009 Hrs of 24.07.2009, the 132 KV Dimapur – Kohima line tripped. This causes power interruption to part of Manipur State. 132 KV Karong – Kohima was in open condition at Karong due to system requirement. NERLDC tried to restore power through 132 KV Karong – Imphal but due to the absence of competent person at Karong, Imphal could

not draw power. Manipur system was restored at 10258 Hrs by charging 132 KV Dimapur – Imphal line and 132 KV Imphal (PG) – Imphal (S)

The Sub-committee noted as above.

D. 9 Any other item

(i) Inability of MeSEB to draw maximum permissible power from Khandong side. – MeSEB

MeSEB vide letter dated 10.08.2009 have informed that a major portion of time during off-peak hours, 132 KV pocket was segregated as per NERLDC's instruction of which only Khliehriat side was connected with 132 KV pocket even with Kopili bus coupler in closed condition for safe loading of 132 KV Kopili – Khandong line. The above operation meant that MeSEB could not draw in the real-time the maximum power from 132 KV pocket even under normal off-peak conditions in the 132 KV pocket. MeSEB requested NERLDC to allow drawing power from Khandong side during normal off-peak condition.

NERLDC informed that the constraint was experienced during July, 2009 due to tripping of Dimapur – Imphal line and during when the Loktak – Jiribam Ckt – II was out of service. However, NERLDC will look into the matter and ensured MeSEB to draw maximum permissible quantum of power under normal grid conditions.

The Sub-committee noted as above.

(ii) Single Phase Auto-reclosure of Transmission lines. – PGCIL

PGCIL informed that in order to improve the reliability of the transmission system, single phase Auto-reclosure scheme has been provided in most transmission lines. If these schemes are in operation, transient single-phase faults can be cleared without power interruption, which would reduce transmission system outages & benefit system reliability. The scheme is not operational on many lines though provision of the same is available. A coordinated effort is therefore required to bring the schemes into operation for

the benefit of the system. The status of the auto-reclosure schemes on POWERGRID lines as furnished is enclosed at **Annexure D.9 (ii)**. For lines terminating at stations of NEEPCO/AEGCL/NHPC, assistance of the concerned agency is requested as indicated in the Annexure for making the scheme operational.

The sub-Committee noted and suggested that the auto-reclosure feature may be made operational as per the above requirement at the earliest. The concerned agencies were requested to coordinate the activity with PGCIL to enable the feature, which would help minimizing power interruptions.

(iii) Black Start Procedure. – NERLDC

The sub-committee noted that approved document on Black Start Procedure to be followed in NE Region was available. It was suggested that NERLDC may hold a one-day workshop to be attended by engineers looking after the NER grid operations in the real-time to get them acquainted with the action plans as per the above black start procedures. *The sub-Committee requested NERLDC to arrange the above workshop at a convenient date for the benefit of the region.*

D. 10 Date and Venue of next OCC

It is proposed to hold the 42nd OCC meeting of NERPC on 11th September, 2009 (Friday). The exact venue will be intimated in due course.

The meeting ended with thanks to the chair.

List of Participants in the 41st OCC meeting held on 12/08/2009

Venue : NERLDC Conference Hall, Shillong

Sl. No	Name & Designation	Organization	Contact No. /e-mail ID
1	W. Rehman, EE (E), SLDC	Arunachal Pradesh	09436050735
2	Sh. H. Hazarika, DGM, LDC	AEGCL (Assam)	09854809104
3.	Sh. A.K.Saikia, Sr. Manager, SLDC	AEGCL (Assam)	09864116176
4	No Representative	Manipur	
5	Sh. F. E. Kharshiing, EE, SLDC,	Meghalaya	09863066960
6	Sh.T. Gideon, AEE, (SLDC),	Meghalaya	09436326178
7	No Representative	P&E, Mizoram	09436156337
8	Sh. Nitoyi Wotsa, E.E, SLDC,	Dimapur, Nagaland	09436004928
9.	Sh. Nilanjoy Reang, Sr. Manager (E)	SLDC, Tripura	09436470065
10.	Shri A. Das, Sr. Manager (E)	Tripura	09436120264
11	Sh. T.S.Singh, Dy. G.Manager	NERLDC	09436302714
12	Sh. N.R.Paul, CM	NERLDC	09436302723
13.	Sh. S.K.Saha, DM	NERLDC	09436335371
14.	Sh B. Medhi, Sr. Engineer	NERLDC	09436335376
15.	Sh. A.Patir, AGM (O&M)	NERTS	09436302529
16.	Sh. T. Nimai Singh, Mgr	NHPC	09436028397
17.	Sh. Bhaskar Goswami, Sr. Mgr	NEEPCO	09436163983
18.	Sh. B.R. Bhattacharya, Mgr	NEEPCO	09436122456
19.	Sh K.K.Khongwar, Mgr	NEEPCO	03870288617
22	Sh. Manjit Singh, MS	NERPC	09436706436
23	Sh.A.K.Jain, SE (Coml	NERPC	0364-2520038
24	Sh.B. Sarkhel, SE (O)	NERPC	09436705479
25	Sh.B. Lyngkhoi, AS	NERPC	09436163419
26	Sh. Satbir Singh, EE	NERPC	
27	Sh. S.M.Aimol, AEE	NERPC	9863311203

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