



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-ऑपरेटिव सोसायटी लि. शिल्लिंग

Meghalaya State Housing Finance Co-Operative Society Ltd. Building

नॉन्ग्रिम हिल्स, शिल्लिंग - 793003

Nongrim Hills, Shillong - 793003.

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No. 103/2/NERPC/OCC/2008/ 789-824

Date: 12th September, 2008

To

1. Member (Tech), Assam State Electricity Board, Bijuli Bhawan, Paltan Bazar, Guwahati-781 001
2. Member (Tech), MeSEB, Lumjingshai, Short Round Road, Shillong - 793 001
3. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
4. Chief Engineer (EE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
5. Chief Engineer (P), Department of Power, Govt. of Nagaland, Kohima - 797 001
6. Chief Engineer (P), Electricity Department, Govt. of Manipur, Keishampat, Imphal - 795 001
7. Chief Engineer (P&E), Department of Power, Govt. of Mizoram, Aizawl - 796 001
8. General Manager, TSECL, Agartala - 799 001
9. GM, NERLDC, Dongtich-Lower Nongrah, Lapalang, Shillong -793 006
10. ED (O&M), NERTS, PGCIL, Dongtich-Lower Nongrah, Lapalang, Shillong -793 006
11. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
12. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
13. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
14. ED (Commercial), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
15. Vice President, PTCIL, 2nd Floor, NBCC Tower, 15, Bhikaji Cama Place, New Delhi
16. AGM(BD), NVVN, Core5, 3rd Floor, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi
17. Member Secretary, ERPC, 14 Golf Club Road, Tollygunge, Kolkata-700033
18. Chief Engineer, GM Division, Central Electricity Authority, New Delhi - 110016

Sir,

Sub: Minutes of the 30th OCC Meeting held on 09th September, 2008 at Shillong.

The Minutes of the 30th OCC Meeting of NERPC held on 09/09/2008 at NERPC Conference Hall, Shillong is enclosed for favour of kind information and necessary action please.

Encl: As above

भवदीय / Yours faithfully,


(B. Lyngkhoi)

I/C 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 30th Operation Coordination Committee Meeting

Date: 09/09/2008

Venue: NERPC Secretariat, Shillong

Sh. B. Lyngkhoi, I/C Member Secretary, NERPC addressed the participants and conveyed his warm welcome to all the participants to the 30th OCC Meeting. He then expressed his sincere thanks and welcomed Shri Dipak Ganguli, Chairman cum Managing Director of TSECL. He then requested Shri L.K. Kanungo, GM, NERLDC to chair the meeting.

GM, NERLDC also conveyed his sincere thanks to CMD, TSECL for sparing his valuable time in spite of his busy schedule to attend the OCC meeting and stated that his presence will guide the OCC members to resolve many important issues and hope that this meeting will bear a fruitful outcome.

CMD, TSECL appreciated the warm welcome by OCC members and stated that in spite of his busy schedule he had chosen to attend this OCC meeting especially to approach the OCC members for additional power to Tripura during the forthcoming Durga Puja festival. He informed the house that every year this practice was followed in the region. Constituent States of Mizoram, Meghalaya and others helped Tripura State during the Durga Puja festival and the same is reciprocated by Tripura during the X- Mas festival. He also appreciated the sincere and dedicated efforts of NERPC and NERLDC, adding that many important issues pertaining to this region were resolved during the OCC meetings. He further emphasized that constituents should try to avoid in approaching CERC and advised rather, the issues should be resolved bilaterally. He requested that all the constituents should work together as a team for the benefit of this region. He assured that any assistance sought by NER constituents, TSECL is always ready to help. CMD, TSECL also requested NERTS to take care of the Transmission lines during the ensuing Durga Puja festival.

GM, NERLDC assured to CMD, TSECL that all the possible help will be extended to Tripura during the coming Puja Festival.

List of participants is at **Annexure-I**.

GM, NERLDC stated that as per the normal practice NERLDC will present the **Review of Grid Performance during the month of August, 2008** before taking up the agenda items. He requested Shri S.K.Saha, Dy. Manager, NERLDC to give the presentation.

Refer **Annexure – II**

GM, NERLDC informed that ISGS generation was higher than State generation due to the good performance of Ranganadi HEP during last month. He also informed the house that Meghalaya had cleared all its outstanding dues and now they started receiving UI and therefore the credit goes to the officials of MeSEB for their efforts to manage the system in a professional way.

CMD, TSECL expressed his concern regarding the frequency profile and stated that the frequency duration in the 49.5 – 50.5 Hz band should be in the range of above 80 – 85 % and not 60 % as shown in the presentation.

Then agenda items were taken up.

1. Confirmation of the minutes of 29th Operation Coordination Committee meeting held at NERPC Secretariat, Shillong on 5th, August 2008.

The minutes of the 29th Operation Co-ordination Committee meeting held at NERPC Secretariat, Shillong were confirmed without any amendment as no observation was received from the constituents.

2. Request for additional peak power during Durga Puja Festival – Tripura.

Shri M. Debbarma, AGM, TSECL informed that around 10 MW of power was received from Mizoram during last year and the same was extended by Mizoram during this Puja festival as bilateral sale to Tripura for 10 MW. He further stated that the demand expected during the forthcoming Durga Puja festival is of the order of 170 MW. Considering the State's own generation of 80 MW, about 90 MW is to be injected in the State during this coming festival. Tripura's entitlement is 90 MW and stressed that system support & cooperation from all constituents is very much needed during this festival. Since Mizoram has already agreed to 10 MW as bilateral sale during Durga Puja, similar co-operation was requested from Meghalaya for 20 MW to support Tripura.

CMD, TSECL then requested Meghalaya to state clearly on what mechanism Meghalaya is proposing in this regard.

Shri T. Passah, S.E, MeSEB informed that the State was running under acute shortage of power and load shedding was just taken off during the last few days only. Moreover they already have an agreement with West Bengal to exchange power during the high hydro season and the same will be reciprocated by West Bengal during the lean hydro period, hence it would be difficult on the part of MeSEB to offer 20 MW to Tripura during the forthcoming Durga Puja festival. Reduction of drawal at the cost of increasing own generation would not be feasible due to insufficient rainfall this year, resulting in shortage of water at the Umiyam reservoir. It was also informed that MeSEB has to maintain stable power supply in the State of Meghalaya as Durga Puja festival is also observed in Meghalaya.

NERLDC explained the possibilities to MeSEB on how to draw power from the grid during this period. GM, NERLDC however suggested that assistance by MeSEB should be preferably through a firm bilateral agreement rather than UI mechanism.

After detailed discussion, MeSEB agreed to share 15 -20 MW of peak power to Tripura during this festive season through suitable mechanism as may be mutually agreed.

CMD, TSECL expressed his sincere thanks to Meghalaya and Mizoram for their kind gestures and expressed the same will be reciprocated by Tripura during the X – Mas festival.

3. Outages of 132 KV Loktak – Jiribam - II – AEGCL.

Shri A.K.Saikia, Sr. Manager, AEGCL informed that whenever Loktak – Jiribam – II tripped, the restoration of the same takes long time. This time the line was out of service from 26.08.2008 and was restored on 01.09.2008. He requested that this line should be restored at the minimum possible time as the constituents in the 132 KV pocket are adversely affected.

Shri Y. Surjamani Singh, Manager (E) from NHPC informed that during last few months frequent trippings have occurred on Loktak – Jiribam – II and has hampered power supply in the State of Manipur. He further enquired if one tower in one of the location was tilted as reported from unofficial sources.

CMD, TSECL enquired about the cause of frequent trippings.

Shri S. Das, Dy. Manager, NERTS informed that the main cause is due to earth fault and also informed about the sad incident when one of their staff was kidnapped by militants, as a result restoration of this line took a longer time.

The OCC members supported the views expressed by the constituents and requested POWERGRID to restore any faulty line at the earliest so that the constituents should not suffer.

CMD, TSECL requested POWERGRID to take utmost care to maintain their transmission lines during the forthcoming Puja festival and also suggested that proper patrolling of the lines for route clearing is very much necessary. He also informed that Tripura with their own resources have been strengthening their State transmission system by restructuring and re-conductoring to help the 132 KV pocket by facilitating maximum generation from AGTPP in case POWERGRID lines are out of service.

AGM, TSECL informed that Tripura have replaced all the CTs to 400/1 in all the sub-stations and requested PGCIL to change their CT at Kumarghat end to 400/1.

MeSEB expressed sincere appreciation to Tripura for the initiative taken by them to improve the constraint in the 132 KV pocket.

GM, NERLDC enquired from Manipur representatives about the status of Loktak – Jiribam – I which was out of service for a long time. He expressed that if Manipur has any difficulty the forum can take up the matter in the next TCC/RPC meetings.

Manipur representative informed the house that the work is being carried out in full swing and by December, 2008 the line will be restored.

All the OCC members expressed satisfaction on the efforts taken by Manipur Power Department.

4. Status of 132/33 KV, 12.5 MVA Transformer at Khandong – AEGCL.

ASEB representatives informed that there is considerable amount of leakage in this transformer. They informed that this transformer was supplied by ASEB for feeding power to the adjoining areas including the colony supply of NEEPCO. Hence the maintenance should be done by NEEPCO.

NEEPCO representatives informed that ASEB has not handed over to NEEPCO. Hence the question of maintaining this transformer is not in the purview of NEEPCO. They have stated that ASEB should maintain the transformer.

After discussion the matter was decided that ASEB and NEEPCO will resolve this issue bilaterally.

5. Disproportionate load-shedding in South Assam to tide over evacuation constraint in 132 KV pocket – AEGCL :

Assam representatives stated that whenever there are transmission or transformer constraints in the 132 KV pocket, South Assam has to share a major part of load shedding as per directive of NERLDC which appears to be disproportionate when compared to the share of load reduction in other concerned constituents. They requested that realistic demand of the areas should be taken into consideration while issuing instruction from NERLDC.

GM, NERLDC stated that the question of disproportionate treatment does not arise at all and further stated that NERLDC is taking care, not only for one State but the region as a whole.

Assam clarified that the issue is not of disproportionate load shedding, actually the quantum of load shedding is required to be maintained so that Assam could take due course of action.

GM, NERLDC stated that this matter will be taken care in future.

6. *Postponement of Shutdown Programme of AGBP – NEEPCO:*

OCC members felt that due to force Majeure of 400 KV D/C Ranganadi – Balipara Transmission line 405 MW is lost from Ranganadi HEP which has hampered severely to the interest of NER constituents, hence the forum has requested NEEPCO to postpone the shutdown programme of AGBP till the Durga Puja festival is over. The Shutdown programme of AGBP is postponed to October, 2008 and the dates of shutdown programme will be discussed in the next OCC meeting schedule to be held in the month of October, 2008.

7. *Endangering of 400 KV D/C Ranganadi – Balipara line due to heavy flood in river Dikrong – POWERGRID:*

NERTS informed that towers Nos. 43 & 44 of the 400 KV D/C Ranganadi – Balipara are in very critical conditions. He requested constituents to bear with POWERGRID in this unforeseen force Marjorie. He stated that the team of POWERGRID is working continuously at the sites. ERS have been installed temporarily to cater to the flow of power and as soon as the water recedes the work can be carried out in full swing. POWERGRID is trying their level best to restore the line at the earliest.

Constituent members requested NERTS to give two days Notice in advance whenever they want to take shutdown of the line for shifting of conductors while restoring the line so that the constituents can take appropriate action like day – ahead bilateral, etc.

8. Installation of Line Reactor at Kathalguri end of Misa – Kathalguri Line – NERLDC:

NERLDC gave their presentation regarding the experience of high voltage in the 220 KV Misa – Kathalguri line.

Refer Annexure – III

Constituent members requested NERPC to request CEA to conduct a thorough system studies taking into consideration future system configuration and also requested that this issue will be put up and discuss in the next TCC/RPC meetings.

9. Generation Planning :

The reservoir levels recorded as on date were as follows :

<u>Sl.No.</u>	<u>HEP</u>	<u>Reservoir level (in meters)</u>	<u>Energy Content (in MU) for the month</u>
1.	Khandong	722.00	
2.	Kopili	608.50	
3.	Loktak	769	
4.	Doyang	323.50	
5.	Barapani	3210 feet	
6.	Gumti	89.00	

So, on the basis of the reservoir levels, it was proposed by the NERLDC the generation schedule for the coming month as follows :

1. Khandong + Kopili-II = (1.056 + 0.504) MU/day
2. Kopili = 4.68 MU/day
3. Loktak = 1.998 MU/day
4. Doyang = 1.56 MU/day
5. Ranganadi = depending in flow of water
6. AGBPP/AGTPP = subject to gas availability

10. Outage Planning for Generator & Transmission elements:

Refer **Annexure-IV**.

NHPC representatives informed that they wanted to improve the performance of Loktak HEP back to 105 MW which was declared de-rated to 90 MW by CEA. NHPC informed that they plan to start their work sometime in November – December, 2008. During the renovation work 2 (two) units will continue to generate. Renovation of a unit will take around 3 (three) months each and at least 2 (two) units will be back in good condition before monsoon start next year.

11. Major Grid disturbances in the previous month (August 2008):

There were 3 (three) major grid failures as submitted by NERLDC. The detail report as submitted by NERLDC is furnished at **Annexure-V**.

12. Any other items:

NERLDC stated that the condition of Data Collecting Device (DCD) in NER has become precarious. DCDs in many locations are giving lots of problem. Some of the DCDs like in Kopili, Khandong are erratically functioning. MeSEB has also informed that the DCD at Lumshnong is giving problems & could not be replaced due to non-availability of spares. All SEMs at Khandong/Kopili should be replaced by L&T meters at the earliest. NERLDC also stated that in Balipara there are 11 Nos. of SEMs, out of these 5 SEMs are erratic.

GM, NERLDC stated that these meters should be replaced immediately to avoid creating problem in accounting. Further, he expressed dissatisfaction for not complying with the decision of the 29th OCC meeting on the matter of providing a back up meter at Kopili Stage II.

Assistant Secretary, NERPC strongly supported the view of GM, NERLDC and further stated that this issues have been discussed many a time. During the 23rd OCC meeting, NERTS had informed that procurement of new DCDs have already been approved and it may take 2 to 3 months to receive after placement of order. However till date nothing has been done. He further stated that each generating stations was supposed to be provided at least 2 (two) DCDs. This matter is very serious and critical in the context of preparing UI & REA.

The OCC member enquired about the status of DCDs.

NERTS representative informed that the matter will be taken up with the higher authority and informed accordingly.

The forum requested NERPC to write to NERTS and find out the status of DCDs procurement and to resolve this issue at the earliest.

13. Date and venue of next OCC.

Constituent Members requested NERPC to hold the Protection Coordination Committee Meeting along with OCC & Commercial Committee Meetings in the month of October, 2008.

In view of Durga Puja festival in the month of October, 2008 the constituent members requested to hold the above meeting on 14th October, 2008 (10:30 Hrs) at “NERPC Conference Hall” Shillong.

The actual date will be intimated in due course.

The meeting ended with thanks to the chair.

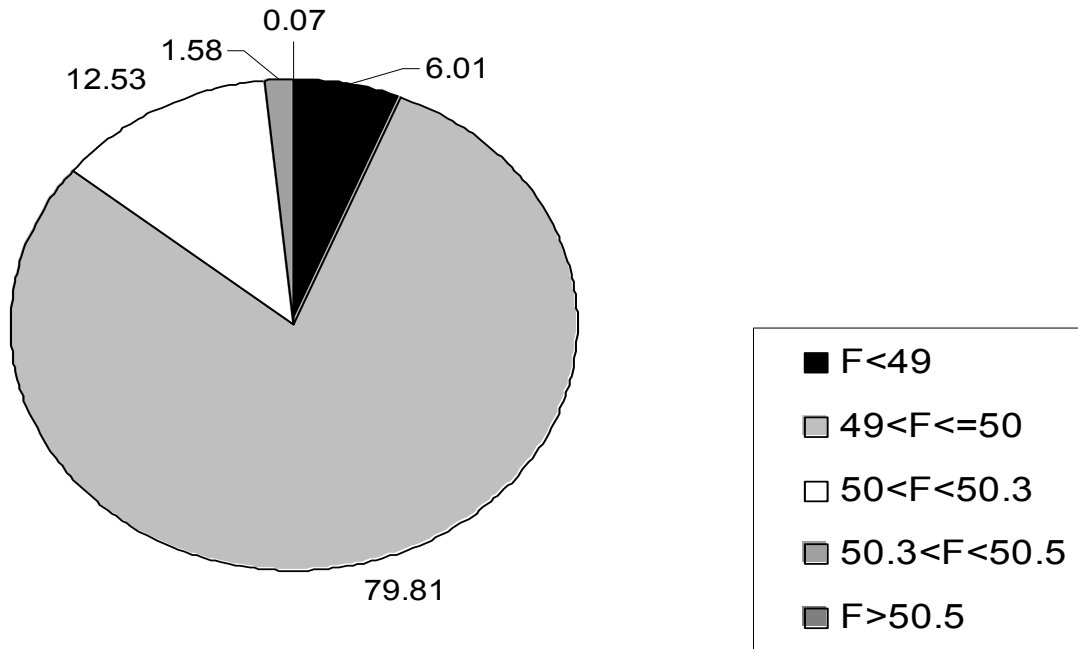
***** ***** ***** ***** *****

NERPC/CEA**List of Participants in the 30th OCC meeting held on 09/09/2008**

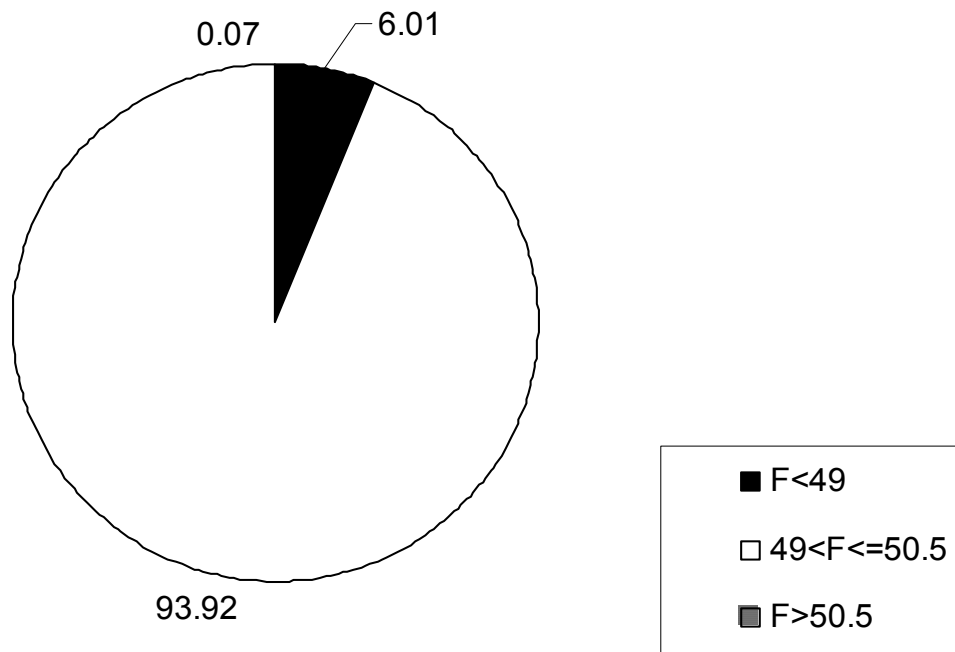
Venue : NERPC Secretariat, Shillong

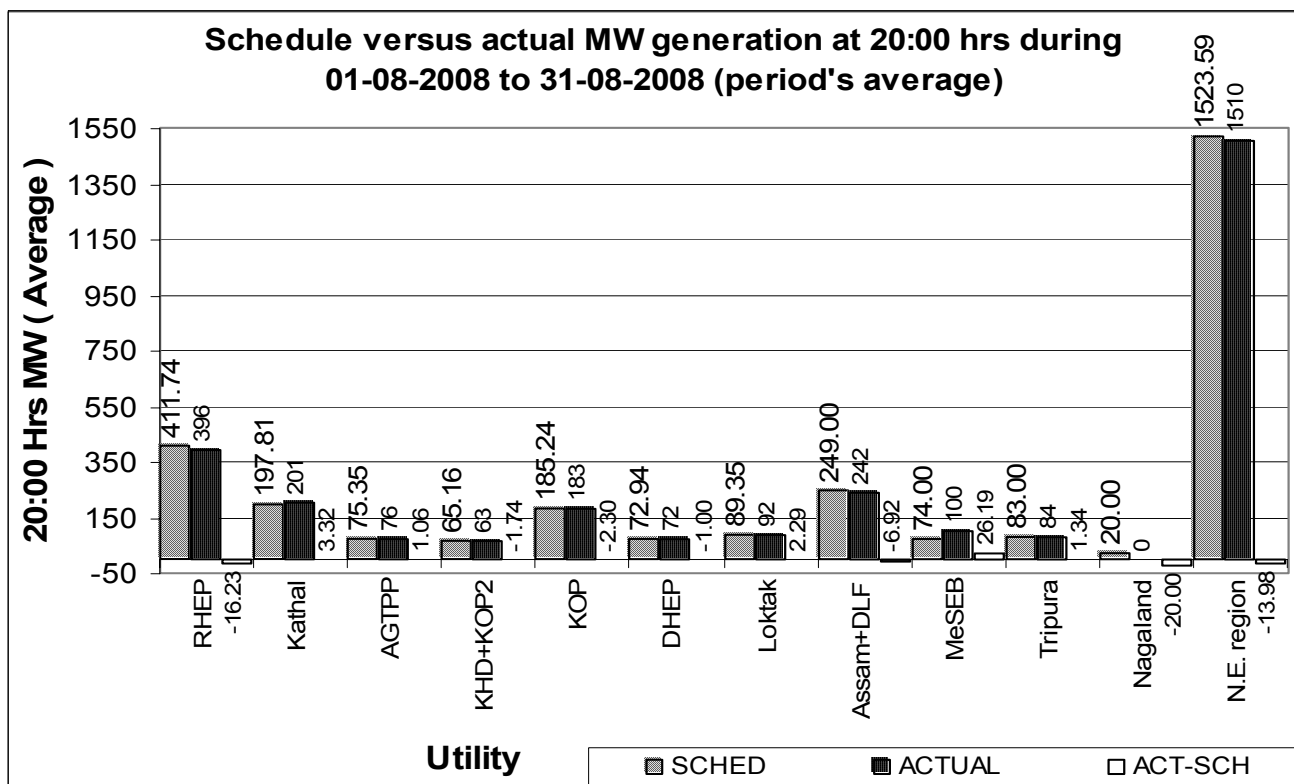
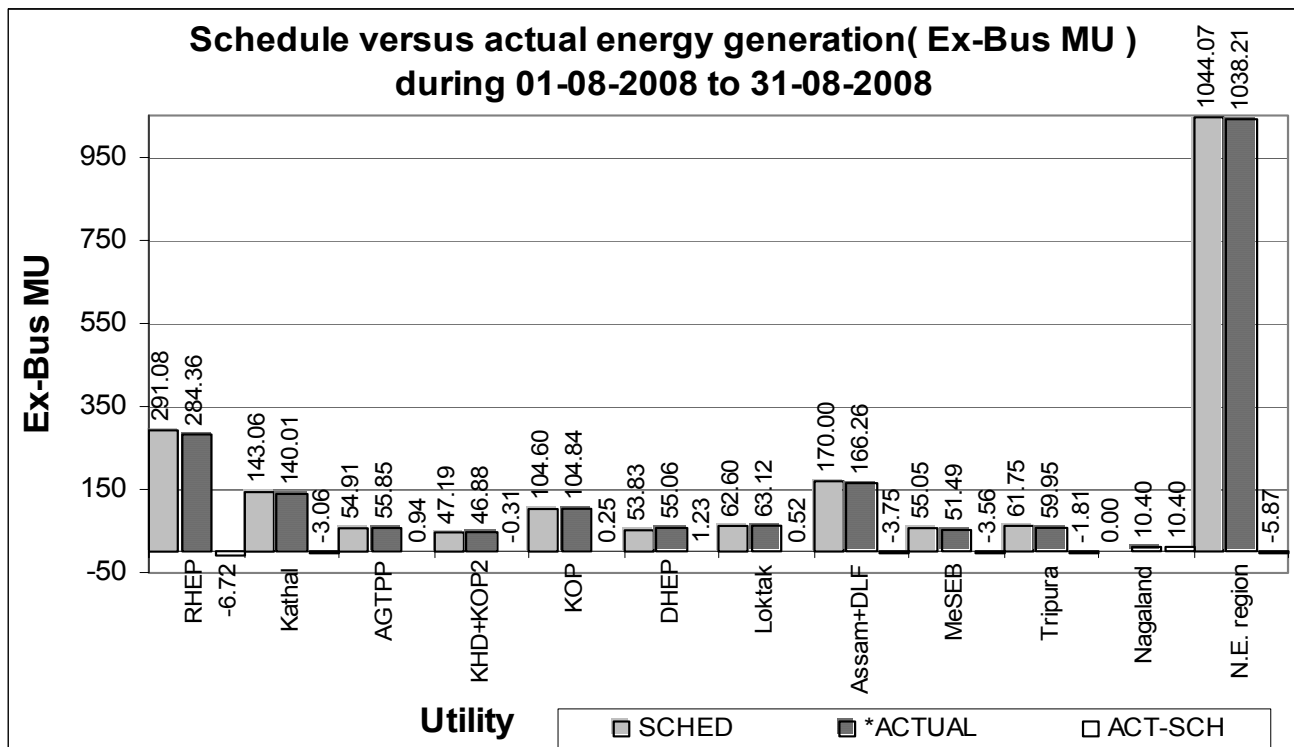
Sl. No	Name & Designation	Organization	Contact No. /e-mail ID
1	Shri Dipak Ganguli, CMD	TSECL	
2	Shri M. Debbarma, AGM	TSECL	9436120134
3	Sh. H. Hazarika, DGM	LDC, AEGCL	9854809104
4	Sh.A.K. Saikia, Sr. Mgr	SLDC, AEGCL	9864116176
5	Sh. T. Passah, SE	SLDC, MeSEB	9863063375
6	Sh. T. Gidon, AEE	SLDC, MeSEB	9436326178
7	Sh. H. Zonunsanga, EE	P&E, Mizoram	9436144651
8	Sh. H. Lalnunsanga, AE	P&E, Mizoram	9436156337
9	Sh. Benjamin L. Saiato, EE	P&E, Manipur	9436024085
10	Sh. L.K.Kanungo, GM	NERLDC	
11	Sh. A. Mallick, CM	NERLDC	9436302720
12	Sh. S.K. Saha, Dy. Manager	NERLDC	9436335371
13	Sh. Sheikh Shadrudin, CM	NERLDC	9436335380
14	Sh. Somiran Das, DM	NERTS	9436335240
15	Sh P.I.Singh, GM	NEEPCO	9435526259
15	Sh. H.K. Changmai, DGM	KHEP, NEEPCO	03670-288233
16	Sh. Bhaskar Goswami, SM	NEEPCO	0364-2504355
17	Sh. B.R.Bhattacharya, Mgr	KHEP, NEEPCO	03670-288233
18	Sh. A.J.Bordoloi, Mgr	NEEPCO	0364-2504355
19	Sh. Y.Surajamani Singh, Mgr	NHPC	9856138023
20	Sh. Sunil Kumar Sinha, Er	NHPC	9810531437
21	Sh. B. Lyngkhai, AS	NERPC	9436163419
22	Sh. S.M.Aimol, AEE	NERPC	9863311203
23	Sh. G. Medhi, AE	NERPC	0364-2520046

**Duration of frequency in relevant ranges during
01-08-2008 to 31-08-2008**



**Duration of frequency in IEGC ranges during
01-08-2008 to 31-08-2008**

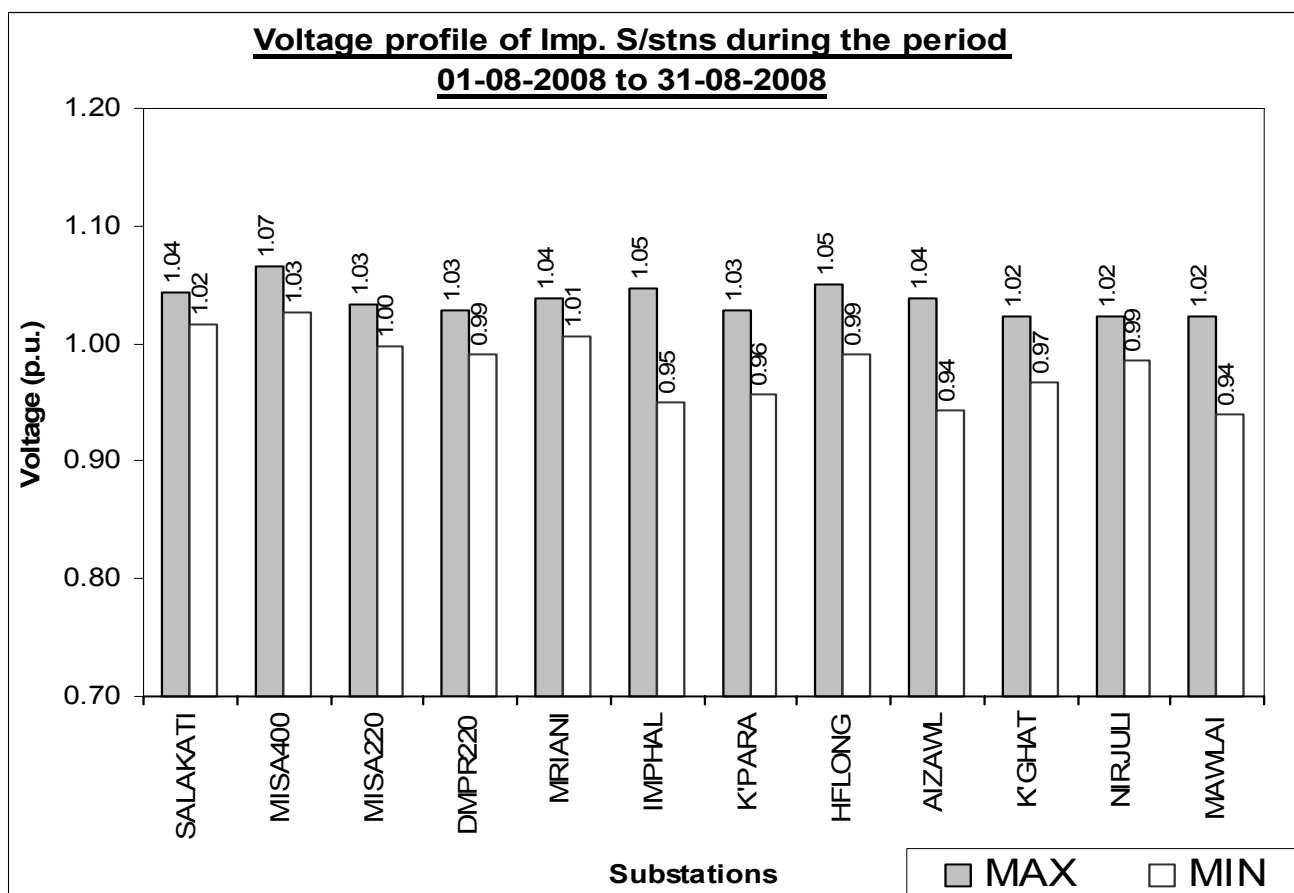
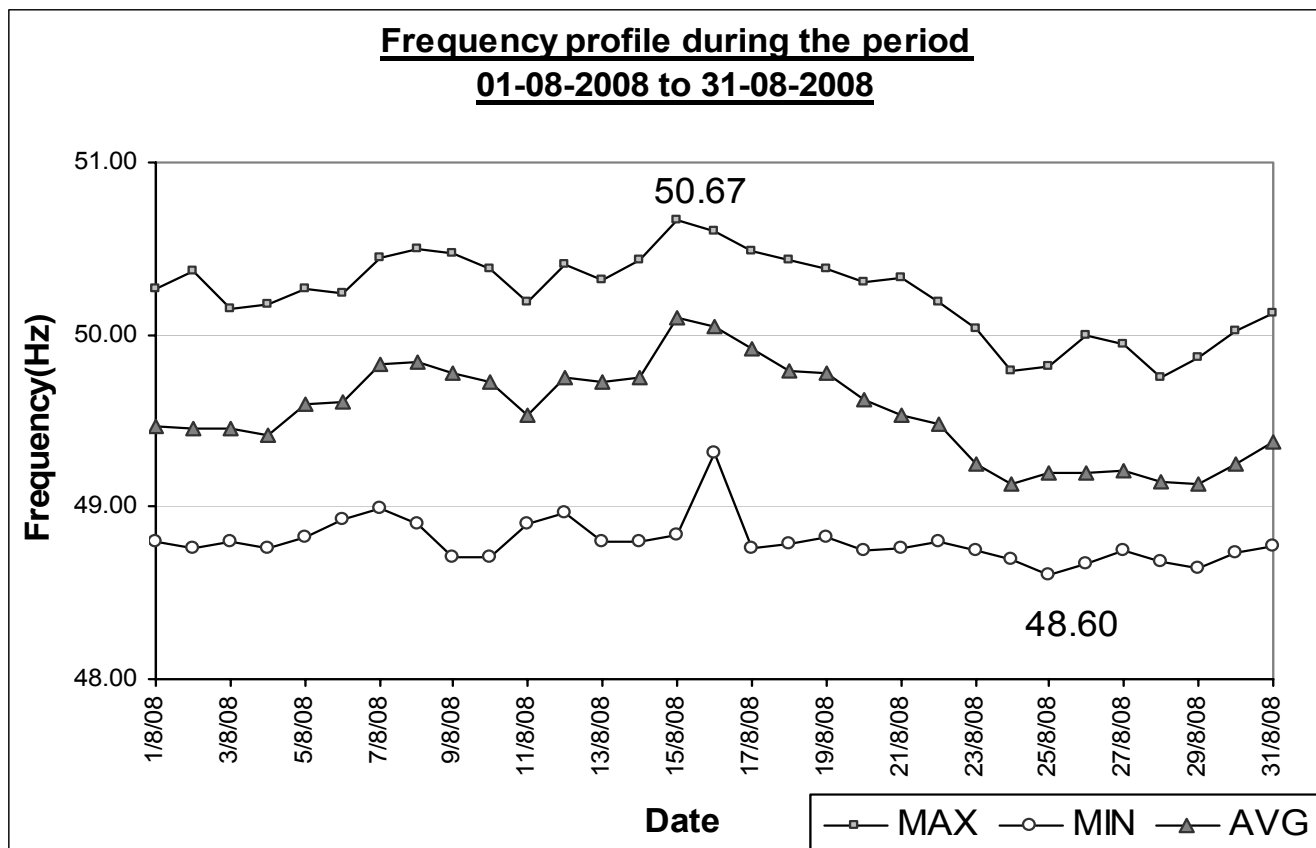


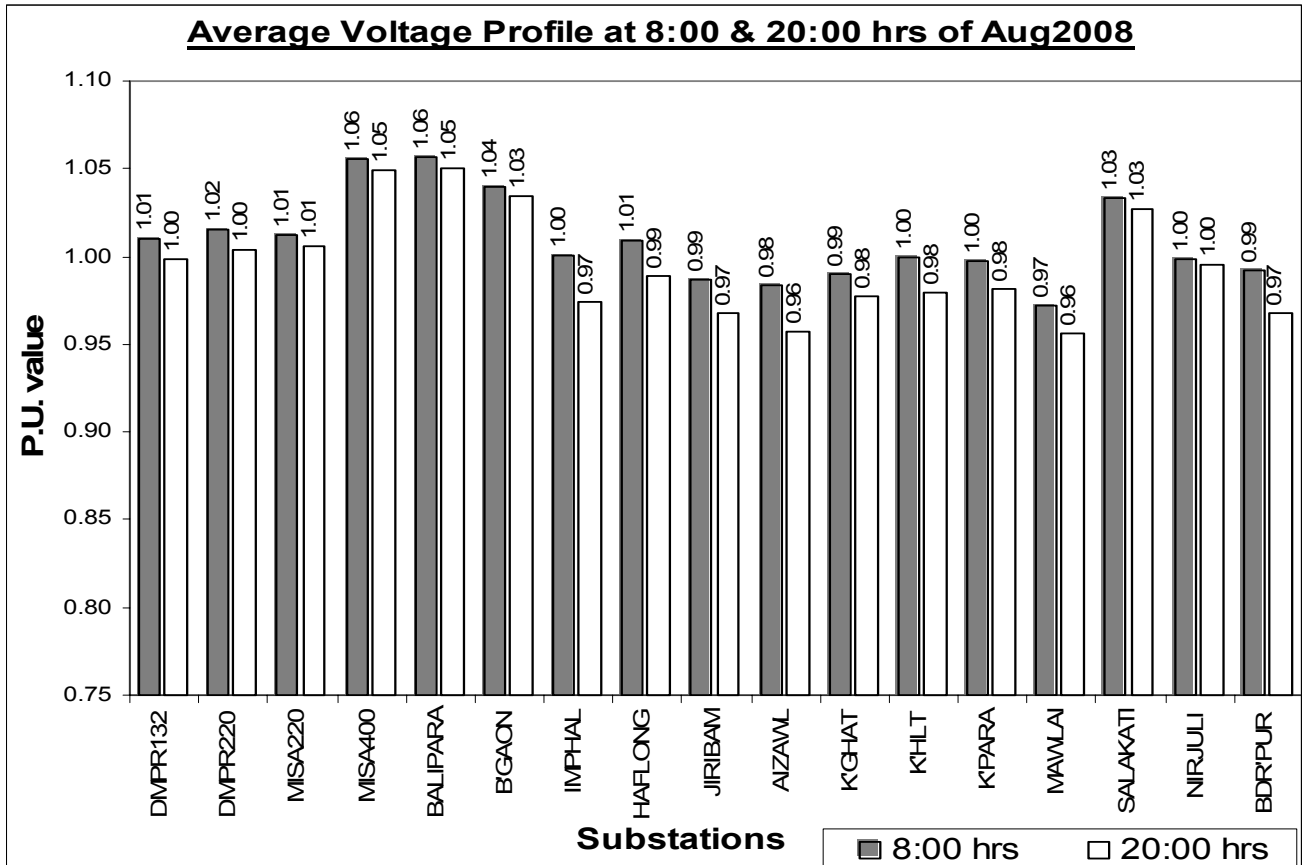


NOTE: Schedule corresponds to 20-21 hrs

VIOLATION BY GENERATORS NOT REPORTED

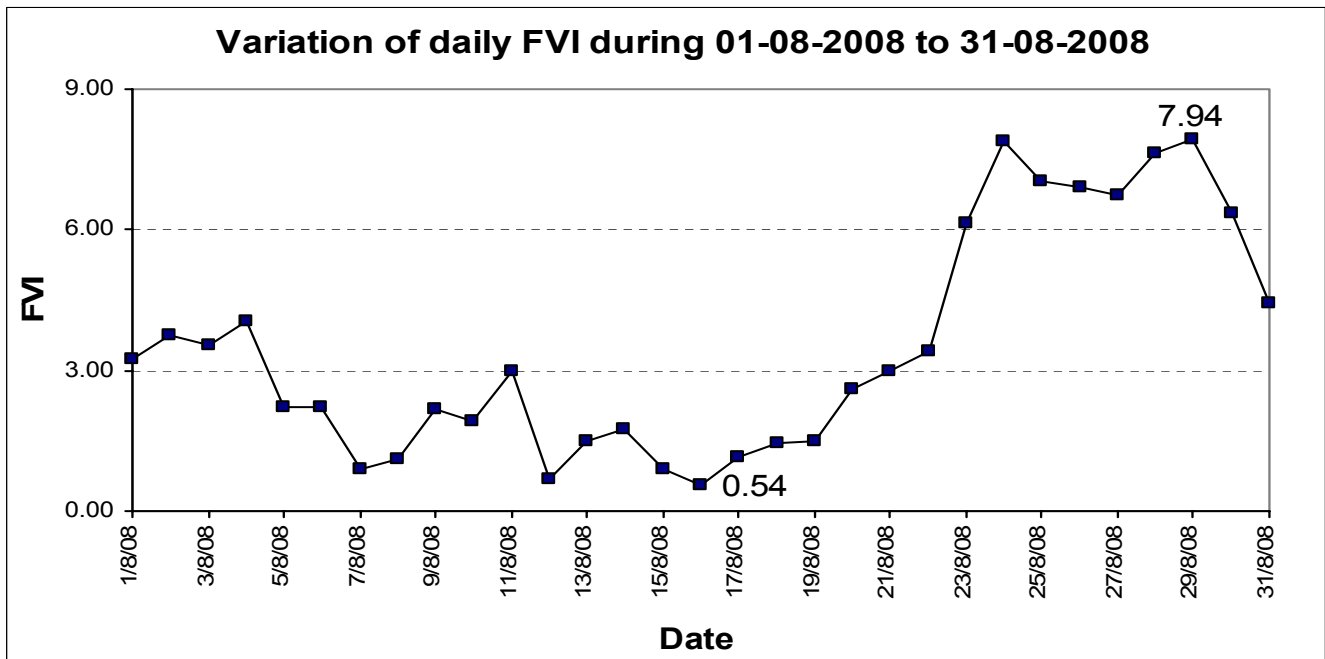
Net Export to E. Region			
	Schedule	Actual	Act-Schd
MU	175.18	256.07	80.89
MW, 20:00 (average)	142.07	177.16	35.09





IEGC NORMS

SL NO.	SYSTEM VOLTAGE	KV	PU
1	400KV	360KV-420KV	0.9-1.05
2	220KV	200KV-245KV	0.9-1.11
3	132KV	120KV-145KV	0.9-1.09



220KV Misa-Kathalguri Line

Issue: Voltage Problem when
charging from Misa end

220KV Misa-Kathalguri Line

❖ Line Parameters

- * 383 Km
- * Twin Moose
- * R/X/B: 0.00002/0.00021/0.00555 pu/km
- * 400Kv charged at 220 KV
- * Reactive Compensation
50 MVAR reactor at Misa end only

220KV Misa-Kathalguri Line

- ❖ Reactive Compensation actually available
 $50 \times (220/420)^2 = 13.7 \text{ MVAR}$
- ❖ Reactive power generated by the line
 $0.00555 \times 383 \times (220/400)^2 \times 100$
 $= 64.3 \text{ MVAR}$
- ❖ Approx. 50 MVAR uncompensated reactive power results 25-30 KV voltage rise when charged from Misa end

220KV Misa-Kathalguri Line

- ❖ Misa voltage normally around 220 KV
- ❖ Once line trips, restoration takes days together in search of suitable voltage condition at Misa end.
- ❖ Ideal charging voltage (205 KV) at Misa end elusive

Annexure – IV

Proposed Shut down Program of POWERGRID Elements for the month of September, 2008

S/N	NAME OF T/L	S/D DATE	S/D TIME	PURPOSE	FEEDERS AFFECTED
1	132 KV Khandong – Khliehriat - I	27.09.08	08:00hrs to 16:00hrs	AMP	Khandong – Khliehriat - I
2	132 KV Gohpur – Itanagar	20.09.08			Gohpur – Itanagar
3	220 KV Misa – Dimapur - I	15.09.08			Misa – Dimapur - I
4	220 KV Misa – Dimapur - II	12.09.08 & 13.09.08			Misa – Dimapur - II
5	220 KV Misa – Samaguri - I	23.09.08 & 24.09.08			Misa – Samaguri - I
6	220 KV Misa – Samaguri - II	25.09.08 & 26.09.08			Misa – Samaguri - II
7	220 KV Kathalguri - Mariani	20.09.08 & 21.09.08			Kathalguri - Mariani
8	132 KV Jiribam - Aizawl	24.09.08			Jiribam - Aizawl
9	132 KV Doyang – Dimapur - II	12.09.08			

**** Note: All the associate bays maintenance would be done during Shutdown of respective Transmission Lines**

S/D Program for POWERGRID sub-stations/Bays/ICTs/Reactors:-

S/N	NAME OF SUB-STATION/BAYS/ICT/ REACTOR	S/D DATE	S/D TIME	PURPOSE	AREAS/FEEDERS AFFECTED
1	Bus Reactor at Balipara	12.09.08 & 13.09.08	09:00hrs to 15:00hrs	AMP	Reactive compensation of 50 MVAR
2	33 KV Tertiary Bus & 33, 0.4 KV 1 MVA Auxiliary Transformer at Misa	19.09.08 & 20.09.08	08:00hrs to 16:00hrs	AMP	33 KV Incomer/Tertiary Reactors - 1,2 & 4
3	132 KV Main Bus at Nirjuli	20.09.08 & 21.09.08	09:00hrs to 15:00hrs	AMP	10 MVA Transformer, Nirjuli – Ranganadi & Gohpur - Itanagar
4	400/220 KV ICT at Balipara	25.09.08	09:00 hrs to 09:45 hrs	AMP	To change over the spare unit
		26.09.08	09:00 hrs to 09:45 hrs	AMP	To change over the spare unit
		27.09.08	09:00 hrs to 15:00 hrs	AMP	For complete checking/testing

* 132 KV Main Bus at Badarpur & Kumarghat Bus proposed to take Shutdown on 15.09.2008, however NERTS will intimate the exact date & time.

**NORTH EASTERN REGIONAL LOAD DISPATCH CENTRE
GRID INCIDENCE/SYSTEM DISTURBANCE REPORT**

To : ED(SO), New Delhi

Copy to : 1. Member Secretary, NERPC, Shillong; 2. S/I, NPSD, New Delhi;

3. S/I, SLDC Kahlipara/NEHU/Agartala/Imphal/Dimapur/Aizwal/Itanagar

Date of occurrence	07	08	2008	Time of occurrence	1257	Category	GD-2
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A. Pre Fault condition

System Frequency	50.05	Hz	Net Export to ER	258.6	MW
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GENERATION (MW) PRIOR TO INCIDENT

Assam	229	Ranganadi	403	AGTPP	74
Meghalaya	56.3	AGBPP	133	Doyang	76
Tripura	55	Kopili	99	Khandong	43
Nagaland	14	Loktak	39	Kopili St II	20

MAJOR LINE/ MACHINE OUTAGE/OPEN

Sl No	Name of Line/ Machine	Remarks
1	132 kV Loktak - Jiribam I	Faulty since 0801 Hrs on 18.10.02
2	132 kV Panchgram - Pailapool	Faulty since 1655 Hrs on 05.10.00
3	132 kV Manani - Mokokchung	Faulty since 1521 Hrs on 12.03.08
4	132 kV Karong - Kohima	Faulty since 0330 Hrs on 14.04.08
5	132 kV Kumarghat-Aizwal	Faulty since 1428 Hrs on 05.08.08
6	132 kV Jiribam-Haflong	Faulty since 1221Hrs on 06.08.08
7	132kV Loktak-Jiribam-II	Faulty since 0343Hrs on 07.08.08
8	400kV Balipara-Misa-II	Opened due to O/V 0405 Hrs on 07.08.08

B. Description of Incidence

NER system was running in synchronization with NEW Grid through 400 kV Bongaigaon – New Siliguri I & II & 220 kV Birpara - Salakati I & II lines.

At 1257 Hrs, 132 kV Badarpur-Khiehrat line tripped on Distance protection B-ph Earth fault this was only connectivity for Tripura & Mizoram to NER grid. The tripping causes separation of South Assam, Tripura & Mizoram system from the main grid. Power interruption occurred at Mizoram, South Assam & Tripura due to load generation mismatch.(.)

System progressively restored at 1313Hrs.

C. States Affected

Assam		Meghalaya		Tripura		Manipur		Nagaland		Mizoram	
MW	MU	MW	MU	MW	MU	MW	MU	MW	MU	MW	MU
50	0.019	Nil	Nil	80	0.03	Nil	Nil	Nil	Nil	29	0.01

AP		Total	
MW	MU	MW	MU
Nil	Nil	159	0.062

D. Generation Affected

Ranganadi		AGBPP		Kopili		Loktak		AGTPP		Doyang	
MW	MU	MW	MU	MW	MU	MW	MU	MW	MU	MW	MU
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	74	0.03	Nil	Nil

Khandong		Kopili ST II		Assam		Meghalaya		Tripura		Nagaland	
MW	MU	MW	MU	MW	MU	MW	MU	MW	MU	MW	MU
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	55	0.02	Nil	Nil

Total	
MW	MU
129	0.05

**NORTH EASTERN REGIONAL LOAD DISPATCH CENTRE
GRID INCIDENT REPORT**

TO: ED(S0),NEW DELHI

**COPY TO : 1. Member Secretary,NERPC,Shillong; 2.S/I NPSD New Delhi;
3. S/I SLDC Kahelipara/NEHU/Agartala/Imphal/Dimapur/Aizwal/Itanagar**

OCCURANCE

DATE	7	8	2008	TIME	11	08	CATEGEORY	GD-1
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(A) PRE-FAULT CONDITION

SYSTEM FREQUENCY	49.81 Hz	NET NER EXPORT	378.0 MW
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GENERATION(MW) PRIOR TO INCIDENT

TRIPURA	50.6	NAGALAND	14	KOPILI	100	KOPILI-II	20
ASEB	216.3	RCNAGAR	74	LOKTAK	89	DOYANG	75
MeSEB	55.6	K"GURI	187	KHANDONG	43	RANGANADI	403

MAJOR LINE/MACHINE OUTAGE OPEN

SL NO	NAME OF LINE/MACHINE	REMARKS
1	132 KV LOKTAK-JIRIBAM-I	Faulty since 0801 Hrs on 18.10.2002
2	132KV PANCHGRAM-PAILAPOOL	Faulty since 1655 Hrs on 05.10.2000
3	132KV KARONG-KOHIMA	Faulty since 0330 Hrs on 14.04.2008
4	132KV MARIANI-MOKOKCHUNG	Faulty since 1521 Hrs on 12.03.2008
5	132KV KUMARGHAT-AIZWAL	Faulty since 1428 Hrs on 05.08.2008
6	132KV JIRIBAM-HAFLONG	Faulty since 1221 Hrs on 06.08.2008
7	132KV LOKTAK-JIRIBAM-II	Faulty since 0343 Hrs on 07.08.2008
8	400KV BALIPARA-MISA-II	Opened due to O/V 0405 Hrs on 07.08.2008

(B) DESCRIPTION OF INCIDENT

NER system was running in synchronization with NEW Grid through 400 kV Bongaigaon – New Siliguri I & II & 220 kV Birpara - Salakati I & II lines.

At 1108 Hrs, 132 kV Loktak-Ningthoukong line tripped on pole discrepancy causing tripping of 132KV Loktak-Imphal on over current & tripping of Loktak three units(.)Due to above line tripping 132kV Dimapur-Imphal tripped on over current resulted in power interruption in Manipur (.)

Power restored in Manipur at 1120 Hrs through charging of 132kV Dimapur-Imphal line & 132kV Imphal(PG)-Imphal(S)(.) Loktak Units synchronised at 1211 Hrs(.)

(C) STATE EFFECTED

ASSAM		MEGHALAYA		TRIPURA		MANIPUR		NAGALAND		MIZORAM	
MW	MU	MW	MU	MW	MU	MW	MU	MW	MU	MW	MU
0	0.00	0	0.00	0	0.00	56	0.02	0	0.00	0	0.00

ARUNACHAL		TOTAL	
MW	MU	MW	MU
0	0.00	56	0.02

(D) GENERATION AFFECTED

AGBPP		AGTTP		RHEP		KOPILI		KHANDONG		KOPILI-II	
MW	MU	MW	MU	MW	MU	MW	MU	MW	MU	MW	MU
0.0	0.00	0.000	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00

DHEP		LOKTAK		ASSAM		MEGHALAYA		TRIPURA		NAGALAND	
MW	MU	MW	MU	MW	MU	MW	MU	MW	MU	MW	MU
0.0	0.00	88.9	0.12	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00

TOTAL	
MW	MU
89	0.1247

**NORTH EASTERN REGIONAL LOAD DISPATCH CENTRE
GRID INCIDENCE/SYSTEM DISTURBANCE REPORT**

To : ED(S0), New Delhi

Copy to : 1. Member Secretary, NERPC, Shillong; 2. S/I, NPSD, New Delhi;
3. S/I, SI.DC Kahilipara/NEHU/Agartala/Imphal/Dimapur/Aizwal/Itanagar

Date of occurrence	23	08	2008	Time of occurrence	2132	Category	GD-2
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A. Pre Fault condition

System Frequency	48.95	Hz	Net Export to ER	210	MW
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GENERATION (MW) PRIOR TO INCIDENT

Assam	246	Rangandi	392	AGTPP	77
Meghalaya	91	AGBPP	207	Doyang	71
Tripura	75	Kopili	192	Khandong	43
Nagaland	19	Loktak	91	Kopili St II	21

MAJOR LINE/ MACHINE OUTAGE/OPEN

Sl No	Name of Line/ Machine	Remarks
1	132 kV Loktak - Jiribam I	Faulty since 0801 Hrs on 18.10.02
2	132 kV Panchgram - Paclapool	Faulty since 1655 Hrs on 05.10.00
3	132 kV Mariani - Mokokechung	Faulty since 1521 Hrs on 12.03.08
4	132 kV Karong - Kohima	Faulty since 0330 Hrs on 14.04.08
5	132 kV Mariani - Dimapur	Shut Down w.e.f 0922 Hrs 21.08.08
6	132 kV Depota - Golpur	opened on 0700 Hrs on 20.08.08 (system requirement)
7	Kopili Bus Coupler	opened on 1751 Hrs on 23.08.08 (system requirement)
8	132/66 kV, 15 MVA ICT at Agartala	Faulty since 1738 Hrs on 28.06.08
9	132/33 kV, 10 MVA ICT 1 at Nirjuli	Faulty since 0115 Hrs on 27.05.08
10	AGBPP U 4	Shut Down w.e.f 0002 Hrs 20.08.08

B. Description of Incidence

NER system was running in synchronisation with the NEW Grid through 400 kV Bongaigaon - New Siliguri I & II & 220 kV Birpara - Salakani I & II lines.

At 2132 Hrs, LBB operated at Mariani. This resulted into opening of all elements of Mariani. Due to this incidence, all running machines alongwith other elements of AGBPP tripped and subsequently all running machines alongwith other elements of I.TPS tripped. However, NTPS islanded with their 66 kV system.

Due to this, there was loss of generation around 250 MW from AGBPP & I.TPS.

System progressively restored at 0315 Hrs.

C. States Affected

Assam		Meghalaya		Tripura		Manipur		Nagaland		Mizoram	
MW	MU	MW	MU	MW	MU	MW	MU	MW	MU	MW	MU
207	0.245	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AP		Total	
MW	MU	MW	MU
Nil	Nil	207	0.245

D. Generation Affected

Ranganadi		AGBPP		Kopili		Loktak		AGTPP		Doyang	
MW	MU	MW	MU	MW	MU	MW	MU	MW	MU	MW	MU
Nil	Nil	208	0.738	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Khandong		Kopili ST II		Assam		Meghalaya		Tripura		Nagaland	
MW	MU	MW	MU	MW	MU	MW	MU	MW	MU	MW	MU
Nil	Nil	Nil	Nil	66	0.15	Nil	Nil	Nil	Nil	Nil	Nil

Total	
MW	MU
274	0.888