



सत्यमेव जयते

भारत सरकार Government of India

शक्ति विभाग Ministry of Power

उत्तर पूर्वी क्षेत्रीय शक्ति आयोग

North Eastern Regional Power Committee

उत्तर पूर्वी क्षेत्रीय शक्ति आयोग, शिलांग, असम

Meghalaya State Housing Finance Co-Operative Society Ltd. Building

शिलांग - 793003

Nongrim Hills, Shillong - 793003.



ISO 9001:2008

SPEED POST/FAX

Ph : 0364-2520034

Fax: 0364-2520030

email: nerpc@ymail.com

website: www.nerpc.nic.in

No.: NERPC/COM/CC\_Min/2013/1835-71

Dated: 23rd April 2013

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. Engineer-in-Chief (P&E), Department of Power, Govt. of Mizoram, Khatla, Aizawl - 796 001
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&E), Department of Power, Govt. of Nagaland, Kohima - 797 001
7. Chief Engineer (P), Electricity Department, Govt. of Manipur, Keishampat, Imphal - 795 001
8. General Manager, TSECL, Agartala - 799 001
9. General Manager, NERLDC, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
10. ED (O&M), NERTS, PGCIL, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
11. GM (LD&C), PGCIL, "Saudamini" Plot No. 2, Sector - 29, Gurgaon, Haryana - 122 001
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. RED (East-II), NTPC Limited, ER-II HQ, Plot No. N-17/2, Third Floor, Naya Palli, Bhubaneswar-751012
17. Vice President, PTCIL, 2<sup>nd</sup> Floor, NBCC Tower, 15, Bhikaji Cama Place, New Delhi - 110066
18. AGM (BD), NVVN, Core 5, 3<sup>rd</sup> floor, Scope Complex, 7 Institutional Area, Lodhi Rd., N. Delhi-3
19. Member Secretary, ERPC, 14 Golf Club Road, Tollygunge, Kolkata-700033
20. Chief Engineer, GM Division, CEA, Sewa Bhawan, R.K. Puram, New Delhi - 110066

Sub: Minutes of the 19<sup>th</sup> CC meeting held on 26/03/2013 at Hotel Grand Starline, Guwahati.

Sir,

Please find enclosed herewith the minutes of 19<sup>th</sup> Commercial Committee Meeting held at Hotel Grand Starline, Guwahati on 26<sup>th</sup> March, 2013 for your kind information and further necessary action.

Encl.: As above

आपका / Yours faithfully,

(**शक्ति विभाग**) / S. K. Ray Mohapatra

(**उत्तर पूर्वी क्षेत्रीय शक्ति आयोग**) / Member Secretary

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. Chief General Manager, SLDC Complex, AEGCL, Kahilipara, 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. (Commercial), Department of Power, Govt. of Mizoram, Khatla, 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, Loktak HEP, Vidyut Vihar, Komkeirap, P.O. Loktak, Manipur - 795 124
19. General Manager, OTPC, Palatana, Kakraban, Gomati District, Tripura - 799 116

## **North Eastern Regional Power Committee**

### **Minutes of the 19th Commercial Coordination Sub-Committee Meeting**

**Date : 26<sup>th</sup> February 2013**

**Venue: Hotel Grand Starline, Guwahati**

The 19th Commercial Sub Committee meeting of NERPC was held on 26<sup>th</sup> February, 2013 at Hotel Grand Starline, Guwahati. The meeting was hosted by APDCL. The list of participants is given at **Annexure-A**.

The meeting commenced with welcome address by Shri Adhikary, DGM (Com), APDCL. He welcomed all the delegates of CC and informed that APDCL was honoured by the opportunity to host the CC meeting of NERPC at Guwahati. He wished all the participants a pleasant and comfortable stay. Then Shri S. K. Ray Mohapatra, Member Secretary (I/C), NERPC welcomed all delegates of the CC meeting and expressed his gratitude to the members for participation in the meeting in spite of their busy schedule. He thanked APDCL for making excellent arrangement and comfortable stay of the members and participants. He informed the house that it is matter of pleasure to see presence of all the constituents in the meeting. He also stated that the complexity of NER grid is likely to increase with the commissioning of new generating stations. The mismatch between commissioning schedule of generating stations and Associated Transmission System (ATS) is a matter of concern. He highlighted about the problem faced during trial operation of the Unit # 1 of Gas Based Power Plant (GBPP) of OTPC at Pallatana, prior to COD as the generators were forced to back down their generation, which has huge commercial implication. He further stated that in the aftermath of Grid disturbances of July 2012, a number of remedial measures have been recommended by enquiry committee headed by Chairperson, CEA. The proposals like installation of Phasor Measurement Units (PMUs) under Unified Real Time Dynamic State Measurement (URTDSM) scheme, implementation of Grid Security Expert System (GSES), up-gradation of SCADA system, establishment of reliable Fibre Optic Communication links, state-of-art PABX and pollution mapping of the region etc., which are to be executed by CTU; involves huge financial investment and burden on the constituents. He, therefore, impressed upon the house to meet quarterly for discussing various commercial issues and its impact on the beneficiaries. He informed the house that in the evening of February 25, 2013 (at the same venue), presentation by Mr. R. Sutradhar, DGM, NERLDC on "Sharing of Inter State Transmission Charges and Losses Regulation and its impact to National Transmission Pool" was very interactive. Before taking up agenda items, there were presentations on "RTA & RTDA" and "Procedure of raising bills to beneficiaries" by Mr. Lalrinsanga, Assistant Secretary, NERPC and Mr. Rana Bose, Chief Manager, NEEPCO respectively. The presentations have been sent through e-mail to all the constituents.

Member Secretary (I/C) then requested Mr. Lalrinsanga, Assistant Secretary, NERPC to take up the agenda items.

1. **Confirmation of the minutes of 18<sup>th</sup> CC Meeting held on 14<sup>th</sup> March 2012 at Brahmaputra Jungle Resorts Pvt. Ltd., Tapesia, Sonapur, Assam.**

Minutes of the 18<sup>th</sup> CC Meeting held at Brahmaputra Jungle Resorts Pvt. Ltd., Assam on the 14<sup>th</sup> March 2012 were circulated, vide letter no. NERPC/COM/CC\_Min/2012/2912-48 dated 23<sup>rd</sup> April 2012.

***As no observations have been received from the members, the Minutes of the 18<sup>th</sup> CCM was confirmed.***

## 2. Agenda items from NERPC

### 2.1 Tabulation of revenue earned through regulation of power to beneficiary states of NER:

NEEPCO, NHPC and POWERGRID have carried out regulation of power supply to beneficiaries of NER as per procedures given in the relevant orders. The amount received from sale of surplus power by the Regulating Entity due to regulation of power supply, is being adjusted against the outstanding dues of the Regulated Entity, after deduction of energy charges, trading margin and other incidental expenses borne by the Regulating Entity, if any, and the remaining amount, if any, shall be passed on to the Regulated Entity.

However, NERPC Secretariat is not informed of the price of selling the regulated power when sale is done through Power Exchange or other platform.

It is, therefore, requested that any Regulating Entity, who has carried out regulation of power to beneficiaries of NER within the present tariff period i.e. 2009-14; may tabulate the revenue earned through such sale of regulated power in the following suggested format.

Financial Year : e.g. 2012 - 2013										
Regulating Entity:	Generating station from where regulation is done	Quantum of regulated power (in MWH)	Mode of sale of regulated power (through exchange or through traders or UI etc)	Total revenue earned from sale of regulated power (In Rs.)	Detail of expenditure incurred towards (a) adjustment of energy charges (b) registration fee for exchanges or traders' fee etc (c) Any other incidental expenses with detail  (In Rs.)			Amount of outstanding dues of the Regulated Entity.  (In Rs.)	Amount adjusted against the outstanding dues of the Regulated Entity  (In Rs.)	Remaining amount, if any, to be passed on to the Regulated Entity  (In Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(5)-(6)-(8)		
					(a)	(b)	(c)			

**Members may like to deliberate.**

#### Deliberations in the Meeting

After detail discussion it was agreed that information will be submitted to NERPC Secretariat on monthly basis in the following format as suggested by the members:

Financial Year : e.g. 2012 - 2013										
Regulating Entity: And Regulated Entity:	Generating station from where regulation is done	Quantum of regulated power And Quantum of power traded or sold (in MWH)	Mode of sale of regulated power (through exchange or through traders or UI etc)	Total revenue earned from sale of regulated power (In Rs.)	Detail of expenditure incurred towards			Amount of outstanding dues of the Regulated Entity. [beyond 60 days] (In Rs.)	Amount adjusted against the outstanding dues of the Regulated Entity (In Rs.)	Remaining amount, if any, to be passed on to the Regulated Entity (In Rs.)
					(a) adjustment of energy charges	(b) registration fee for exchanges or traders' fee etc	(c) Any other incidental expenses with detail			
(1)	(2)	(3)	(4)	(5)	(6)			(7)	(8)	(9)=(5)-(6)-(7)-(8)
					(a)	(b)	(c)			

NOTE: If (9) is negative, then it indicates that outstanding due has not been recovered fully.

The regulating entity(s) was requested to submit the details to NERPC in above format from current financial year (2012-2013) i.e. from April, 2012.

## 2.2 Revised bills of NHPC for Loktak HEP:

Hon'ble CERC vide order dated 14.06.2011 in petition No. 108/2010 of NHPC has allowed recovery of capacity charges up to Normative Plant Availability (NAPAF) considering the installed capacity and AFC as below: -

Period	Capacity
1.4.2009 to 4.9.2009	90 MW
5.9.2009 to 12.6.2009	95 MW
13.6.2010 to 30.5.2011	100 MW
31.5.2011 to 31.3.2014	105 MW

Year	Rupees in Lakhs
2009 - 10	8485.87
2010 - 11	9011.91
2011 - 12	9579.35
2012 - 13	10121.14
2013 - 14	10602.90

Subsequently, CERC vide order dated 22.10.2012 in Review Petition No. 24/2011 in Petition No. 108/2010 has revised the Annual Fixed Charges as below. Further, the Commission allowed NHPC to claim the difference in respect of tariff determined by order dated 14.06.2011 and dated 22.10.2012 from the beneficiaries in six monthly equal installments.

Year	Rupees in Lakhs	Difference
2009 - 10	8553.94	68.07
2010 - 11	9084.19	72.28
2011 - 12	9663.27	83.92
2012 - 13	10223.05	101.91
2013 - 14	10716.60	113.7

GM (Comml-Tariff), APDCL vide letter no. CGM (COM)/NHPC BILLS/NER/PT-1/2011/83 dated 03.12.2012 informed that NHPC has raised supplementary bill for the period from April 2009 to March 2012 based on the order dated 22.10.2012 mentioning there is a need for revision of monthly REAs for the relevant period. He requested NERPC to look into the matter and do needful accordingly so that bills of NHPC can be entertained.

In this regard, it may be noted that NERPC has revised the PAFMs of Loktak HEP vide no. NERPC/COM/REA/2011/2857-81 dated 24<sup>th</sup> August 2011 which is reproduced below: -

Month	Revised PAFM (In %)	Cumulative Revised PAFM (In %)	Revised PAFM (Incentive) (in %)	Cumulative Revised PAFM (Incentive) (in %)
2009 - 2010				
April 2009	68	68	59	59
May 2009	56	62	48	53
June 2009	59	61	51	52
July 2009	65	62	56	53
August 2009	66	63	56	54
September 2009	94	68	84	59
October 2009	100	73	90	64
November 2009	76	73	69	64
December 2009	67	72	60	64
January 2010	67	72	60	63
February 2010	67	71	60	63
March 2010	67	71	60	63
2010 - 2011				
April 2010	67	67	60	60
May 2010	66	66	60	60
June 2010	79	70	74	65
July 2010	92	76	87	70
August 2010	95	80	90	74
September 2010	96	82	91	77
October 2010	96	84	91	79
November 2010	96	<b>86</b>	91	81
December 2010	70	84	67	79
January 2011	70	83	66	78
February 2011	53	80	51	76
March 2011	34	76	33	72

2011 - 2012				
April 2011	65	65	62	62
May 2011	7	35	6	34

It may be noted that CERC allowed recovery of capacity charges up to Normative Plant Availability (NAPAF) only and therefore NHPC should raise Capacity Charge considering Cumulative PAFM of 85 % instead of 86 % for the month of November 2010 since the NAPAF is 85 % only. Similarly for the purpose of incentive, the PAFMs have been calculated separately and are shown in the above table.

Regarding revision of REAs, the new Annual Fixed Charge will be considered from the month of February 2013 and NHPC may raise revised bill to the beneficiaries till January 2013.

***Members may like to deliberate.***

Deliberations in the Meeting

Mr. Lalrinsanga, Assistant Secretary, NERPC informed that the CERC, vide order dated 14.06.2011, has allowed NHPC to recover capacity charges up to Normative Plant Availability (NAPAF) considering installed capacity and AFC for the period 2009-14 and with subsequent revision in the Annual Fixed Charges (AFC) by CERC, vide order dated 22.10.2012, for the same period. NHPC was to raise bills for the difference in tariff determined by orders dated 14.06.2011 and dated 22.10.2012 to beneficiaries in six monthly equal installments. He clarified that NHPC should recover capacity charges for any month only up to Normative Plant Availability (NAPAF) which is 85% in the case of Loktak Power Station. He also stated that NHPC may raise the revised bills up to January 2013 as the new AFC for NHPC has been reflected in the REA for the month of February 2013 and onwards.

The representative of Tripura stated that bills raised by NHPC were not being received in time and it was difficult for them to understand the supplementary bills, being raised in new formats.

NHPC was advised to explain to their beneficiaries about their energy bills.

**2.3 Methodology adopted in REA for calculating scheduled energy to beneficiaries from of Central Generating Station:**

At present, NERPC is calculating scheduled energy at ex-bus of generating station and the same is apportioned to the beneficiaries in proportion to the percentage share allocation. The energy charge of the generating station is recovered from the respective shares in the scheduled energy.

However, energy scheduled at the state periphery will be after deduction of regional pool losses. An example is given below: -

Loktak scheduled energy (ex-bus) for the month of August 2012 = 71864.348 MWH. Then share of beneficiaries will be: -

States	% share	Scheduled Energy at Ex-bus of generating station	Scheduled Energy at periphery of beneficiaries	Difference (pool loss)
Arunachal Pradesh	4.940	3550.099		
Assam	29.445	21160.457		
Manipur	30.115	21641.948		
Meghalaya	12.393	8906.149	8864.718	41.431
Mizoram	5.020	3607.590		
Nagaland	6.435	4624.471		
Tripura	11.652	8373.634		
Total	100.000	71864.348		

The following points may be noted: -

- Beneficiaries are paying the energy charges at the ex-bus of generating station as per Tariff Regulation.
- That also means that beneficiaries are paying for the pool losses.
- When there is regulation of power, the regulated power is calculated at the periphery of beneficiaries and the beneficiaries are still paying for the pool losses when regulation is done up to 99.99 %
- The question arises, when there is regulation of 100 %, as in the case of Meghalaya for the month of August 2012. The pool loss figure of 41.431 has been depicted as scheduled energy against Meghalaya even though regulation of power was imposed for 100% of Meghalaya's share.

However, it may also be noted that the above calculation does not imply commercial disadvantage to Meghalaya as explained below: -

- The amount received from sale of surplus power by generating company due to regulation of power supply, shall be adjusted against the outstanding dues of the Regulated Entity, after deduction of **energy charges**, trading margin and other incidental expenses borne by the Generating Company, if any, and the remaining amount, if any, shall be passed on to the Regulated Entity.
- It is clear that the regulated entity will pay for the energy charges even when there is 100% regulation of power.

***Members may like to deliberate.***

#### Deliberations in the Meeting

Assistant Secretary, NERPC stated that energy scheduled at the state periphery is after deduction of regional pool losses, but the constituents are billed as per scheduled energy as depicted in REA which is scheduled at ex-bus of generating station in proportion to the percentage share allocation as per Tariff Regulation. He further stated that since the quantum of regulated power is calculated at the periphery of beneficiaries, the pool losses are still to be borne by the beneficiaries even when regulation of power is done up to 100 %.

After deliberation, the committee agreed that the regulated entity need not pay energy charges when there is 100% regulation of power. However, NERPC and NERLDC will discuss to settle the problem of reflecting in monthly REAs when there is partial regulation of power.

#### **2.4 Set of meters used for calculation of open cycle generation of AGBPP:**

The following set of meters is used for calculation of open cycle generation of AGBPP.

KT-03	NP-5804-A	0150	2000.0000	KATHALGURI GT-1
KT-04	NP-5805-A	0150	2000.0000	KATHALGURI GT-2
KT-05	NP-5806-A	0150	2000.0000	KATHALGURI GT-3
KT-06	NP-5807-A	0150	2000.0000	KATHALGURI GT-4
KT-07	NP-5818-A	0150	2000.0000	KATHALGURI GT-5
KT-08	NP-5819-A	0150	2000.0000	KATHALGURI GT-6
KT-09	NP-5820-A	0150	2000.0000	KATHALGURI GT-7
KT-10	NP-5822-A	0150	2000.0000	KATHALGURI GT-8
KT-11	NP-5823-A	0150	2000.0000	KATHALGURI GT-9

There are 3 modules with set of 3 meters viz.

Module-1: NP-5820-A (Steam turbine 1); NP-5804-A (Gas turbine 1) and NP-5805-A (Gas turbine 2)

Module-2: NP-5822-A (Steam turbine 2); NP-5806-A (Gas turbine 3) and NP-5807-A (Gas turbine 4)

Module-3: NP-5823-A (Steam turbine 3); NP-5818-A (Gas turbine 5) and NP-5819-A (Gas turbine 6)

Open cycle generation is being calculated by assuming that the plant is operating in open cycle whenever the reading of SEMs installed with steam turbine is zero and there is some reading on either of the gas turbines for each module. However, when reading of SEMs installed with the steam turbine is not available, it is assumed that the steam turbine is under shut-down/ maintenance and the same are being treated as open cycle mode.

Considering the recent hearing at CERC, open cycle mode of operation may be required to be discussed in OCC/CC meetings and RPC Secretariat may be required to certify the open cycle generation for each month. The following points are suggested for deliberation in respect of open cycle generation of AGBPP:

1) The percentage figures indicated in the monthly Regional Energy Account are indicative of open cycle generation for that month and it has no commercial implication until the same has been agreed in OCC / CC meetings.

2) In case of emergency situation, NEEPCO may intimate NERLDC/ NERPC the requirement to operate in open cycle mode.

3) The healthiness, correctness and present status of the set of meters used for calculation of open cycle generation should be jointly verified by NEEPCO/PGCIL and APDCL.

4) Whenever the reading of any of the above set of meters used for calculation of open cycle generation is un-available due to any reason, the reason should be sent to NERLDC/ NERPC immediately. If the reason of non-availability is not sent to NERLDC/ NERPC, the same may be treated as operating in combined cycle mode.

***Members may like to deliberate.***

### Deliberations in the Meeting

Assistant Secretary, NERPC informed that in AGBPP, there are three (3) modules of generating units each of 63.5MW (installed capacity). Each module has two gas turbines (each of 33.5MW) & one steam turbine (30MW) and each module can operate in open cycle mode.

NERPC used to indicate open cycle operation of the entire plant in terms of percentage in the monthly REA based on available readings of SEMs. The duration / period of Open Cycle generation is being calculated as follows:

- (a) It is assumed that the plant is operating in Open Cycle mode, whenever readings of SEMs installed with steam turbines is zero and there is some reading in SEMs installed with either of the gas turbines of each module.
- (b) When reading of SEMs installed with Steam turbine is not available, it is assumed that steam turbine is under shut down / maintenance and the same is being treated as open cycle operation unless it is reported that meter is faulty.

It is further to clarify that percentage of Open cycle operation indicated in the monthly REA is only an indicative figure as the same has not been discussed and agreed by the beneficiaries.

Member Secretary stated that certification for open cycle operation of Gas Based Power Plant (GBPP) should be deliberated by the members.

APDCL representative suggested that the generator should intimate RLDC in case of any compelling situation for operation of the unit in open cycle mode and beneficiaries should be informed accordingly before giving the schedules.

DGM, NEEPCO informed the members that whenever the plant is run on open cycle mode, RLDC is being intimated. He further stated that NEEPCO has never run its generating station in open cycle mode for any commercial benefit.

DGM, NERLDC stated that since scheduling is done on the whole plant/station basis and not unit wise, it would be difficult to segregate the open cycle operation of any module. He suggested that possibility of scheduling may be discussed in OCC meeting. He further suggested that AGBPP may be run in combined cycle mode only till scheduling process is finalized by OCC. He also stated that planned shutdown is being discussed in OCC presently. Open Cycle operation of Gas Based Power Plan can be discussed in such forum.

After detail deliberation, the following points were agreed:

- (a) *NEEPCO should not claim commercial benefits based on indicative figure (in %) of open cycle operation by NERPC secretariat unless the same is approved in OCC/CC forum.*
- (b) *The words indicated in monthly REA, henceforth, will be corrected as "Open cycle generation based on SEM reading of AGBPP for the month" in place of "Open cycle generation Certification of AGBPP". The above information will be used for billing purpose only after approval in OCC/PCC/CC forum.*
- (c) *NEEPCO should inform NERLDC about operation of the module in open cycle mode. The reason/urgency of such operation and tentative duration should be intimated to NERLDC.*

- (d) *NERLDC should intimate beneficiaries about Open Cycle operation of the plant as beneficiaries may not like to buy such power at a higher price. Unless scheduling of generation of AGBPP is done on unit basis (not on plant/station basis) by NERLDC, the segregation of open cycle operation will be difficult / may not be feasible.*
- (e) *As RPC Secretariat is certifying open cycle generation of combined cycle plants in other regions, the same will be required to be certified by NERPC Secretariat. The issue may be referred to OCC forum to find out a suitable method of certifying open cycle generation for combined cycle plants.*

## **2.5 Implementation of Renewable Regulatory Fund:**

CERC vide order dated 16.01.2013 in Suo Motu petition no. 209/2011 has directed all concerned agencies to gear up for implementation of the Renewable Regulatory Fund mechanism w.e.f 01.07.2013. Mock exercises for forecasting and scheduling is to be started w.e.f 1.2.2013. The UI charges of wind and solar generators are to be borne by all the states of the country in the ratio of their peak demands in the previous month. Relevant provisions in the IEGC 2010 under Complimentary Commercial Mechanisms are reproduced below:

### **QUOTE**

5. The wind generators shall be responsible for forecasting their generation up to an accuracy of 70%. Therefore, if the actual generation is beyond +/- 30% of the schedule, wind generator would have to bear the UI charges. For actual generation within +/- 30% of the schedule, no UI would be payable/receivable by Generator, The host state, shall bear the UI charges for this variation, i.e within +/- 30%. However, the UI charges borne by the host State due to the wind generation, shall be shared among all the States of the country in the ratio of their peak demands in the previous month based on the data published by CEA, in the form of a regulatory charge known as the Renewable Regulatory Charge operated through the Renewable Regulatory Fund (RRF). This provision shall be applicable with effect from 1.1.2011, for new wind farms with collective capacity of 10 MW and above connected at connection point of 33 KV level and above, and who have not signed any PPA with states or others as on the date of coming into force of this IEGC. Illustrative calculations in respect of above mechanism are given in Appendix.

6. A maximum generation of 150% of the schedule only, would be allowed in a time block, for injection by wind, from the grid security point of view. For any generation above 150% of schedule, if grid security is not affected by the generation above 150%, the only charge payable to the wind energy generator would be the UI charge applicable corresponding to 50- 50.02 HZ .

7. In case of solar generation no UI shall be payable/receivable by Generator. The host state, shall bear the UI charges for any deviation in actual generation from the schedule. However, the net UI charges borne by the host State due to the solar generation, shall be shared among all the States of the country in the ratio of their peak demands in the previous month based on the data published by CEA, in the form of regulatory charge known as the Renewable Regulatory Charge operated through the Renewable Regulatory Fund as referred to in clause 5 above.. This provision shall be applicable ,with effect from 1.1.2011, for new solar generating plants with capacity of 5 MW and above connected at connection point of 33 KV level and above and , who have not signed any PPA with states or others as on the date of coming into force of this IEGC. Illustrative calculations in respect of above mechanism are given in Appendix.

**UNQUOTE*****For information and needful actions.***Deliberations in the Meeting

The committee noted as above.

**2.6 Official e-mail id of beneficiaries.**

NERPC Secretariat discontinued sending of accountings through post to save papers and postal charges. Database conversion of accounts is in progress and links will be provided in the NERPC website under Commercial Activities once conversion is completed. However, the database data will be without covering letter and will be used for record, reconciliation, information and other study purposes. Scanned copy of covering letter and soft copy of accounts after converting into pdf format will be sent by mail to the constituents of NERPC for official settlement of accounts. Constituents are requested to provide at least 2 working official email ids where the accounts may be sent.

***Members may like to deliberate.***Deliberations in the Meeting

All the constituents have given their official e-mail IDs as given below:

SL NO.	ORGANISATION	E MAIL ID (1)	E MAIL ID (2)
1	ARUNACHAL PRADESH	MIMAHAGE@YAHOO.CO.IN	-
2	ASSAM	KUMUD_GOSWAMI@REDIFFMAIL.COM	M_ADHIKARY@MSN.COM
3	MANIPUR	ATON.SEKMAI@GMAIL.COM	IROMSARATCHANDRA@YAHOO.COM
4	MEGHALAYA	SLDC.SHG@GMAIL.COM	-
5	MIZORAM	BLTLUMTEA@YAHOO.COM	SLDC_MIZORAM@REDIFFMAIL.COM
6	NAGALAND	SLDC.NGL@GMAIL.COM	CEPOWER1@GMAIL.COM
7	TRIPURA	AD_COMM@REDIFFMAIL.COM	-
8	NEEPCO	NEEPCOCOMMERCIAL@GMAIL.COM	BARMANPCB@GMAIL.COM
9	NHPC	GOELKK@NHPC.NIC.IN	PARAGS@NHPC.NIC.IN
10	NTPC	SKKAR@NTPC.CO.IN	AKSRIVASTAV@NTPC.CO.IN
11	OTPC	ARUPC.SARMAH@OTPCINDIA.IN	-
12	PGCIL	BHAGAWATI1956@GMAIL.COM	-
13	NERLDC	NERLDC1@HOTMAIL.COM	NERLDC1@GMAIL.COM

### 3. **Agenda items from APDCL (ASEB)**

#### 3.1 **Commissioning of separate 33 KV Delivery Line to APDCL substation at Umrangsu:**

As per request of NEEPCO, APDCL has drawn a new separate 33 KV feeder from 132 KV Khandong substation of NEEPCO to its Umrangsu 33/ 11 KV Substation thereby separating the colony supply of Umrangsu, NEEPCO. CTU/ NERLDC/ NERPC are requested to make necessary arrangement for installation of meters for the purpose of proper accounting and billing.

***Members may like to deliberate.***

#### Deliberations in the Meeting

It was agreed that one SEM would be installed by POWERGRID at Umrangso and APDCL agreed to send the SEM reading regularly.

#### 3.2 **Request of Arunachal Pradesh for a new 33 KV supply point:**

Recently Arunachal Pradesh has sought a new 33 KV feeding point from Jonai 33 KV substation of Assam to its territory on deposit work basis. Assam has agreed to the proposal subject to condition that the applicable tariff for this new connection be as per STOA tariff decided by AERC from time to time.

***Being the proposed supply an inter-state one, the matter is placed before the forum for its perusal.***

#### Deliberations in the Meeting

Arunachal Pradesh agreed to pay as per applicable STOA tariff decided by AERC from time to time. The forum advised Assam and Arunachal Pradesh to discuss bilaterally and finalise the agreement as per applicable tariff as decided by AERC.

#### 3.3 **Energy supply to Arunachal and Nagaland through 33 KV/ 11 KV network of Assam (APDCL):**

Arunachal and Nagaland has been drawing energy through 33 KV/ 11 KV network of Assam since pre UCPTT period. But with the implementation of Point of Connection (PoC) system of transmission charges, continuation of existing supply mechanism is commercially not possible. The only solution for continuation of existing system is that such states are to pay against such 33 KV/ 11 KV drawl to APDCL at its tariff applicable for Bulk (others) or Short Term Open Access (STOA) rate approved by AERC from time to time.

***Arunachal and Nagaland are requested through this forum either to agree for bilateral arrangement of purchase or stop drawl of such energy under the existing arrangement. Assam shall discontinue all 33 KV/ 11 KV connectivity near future.***

#### Deliberations in the Meeting

Nagaland representative informed that details of their lines and drawal mechanism from Assam 33/11 KV substation were not available with him. He, however, stated that Nagaland would

discuss the matter with Assam. He also stated that Nagaland is ready to purchase power as per tariff applicable for bulk consumer as decided by AERC.

Arunachal Pradesh also agreed for bilateral arrangement for purchase of power as per applicable tariff decided by AERC.

The committee advised Assam to approach Nagaland and Ar. Pradesh with details of tariff applicable and settle the issue.

It was decided that the issue will be reviewed in the next CC meeting.

### **3.4 *Anomalies of Inter State Meter Reading of 11 KV Bordumsa- Ketetong Feeder:***

In earlier CC meeting APDCL submitted an agenda item on anomalies in the meter readings submitted to NERLDC against 11 KV Bordumsa- Ketetong Feeder for the period from August' 2008 to July' 2010 due to consideration of wrong MF. The matter was put up in the 10TH NERPC meeting and the said meeting advised to both Assam and Arunachal Pradesh (AP) to settle the issue bilaterally. Accordingly AP has accepted the difference of readings vide its Letter No. 2024-26 dated 25.08.2011. The difference of meter reading under-recorded during the period was 5, 97,180 KWH.

Subject to ratification of weighted average tariff of central sector generating stations the billing and settlement of this anomaly period can be completed instead of revision of REAs past period.

***Members may like to deliberate.***

#### Deliberations in the Meeting

It was decided that NERPC will study the monthly average UI rate for applicable two years period and come out with the calculation accordingly.

## **4. Agenda items from NERLDC.**

### **4.1 *UI outstanding:***

Status of UI outstanding as on 01.02.2013 is attached (Annexure- 4.1). From the same it can be seen that Mizoram and Nagaland are the largest defaulters with outstanding of Rs.3.59 Crores and Rs.6.24 Crores respectively. Such payment default is creating serious constraint in timely settlement of UI pool account.

***Mizoram and Nagaland may liquidate outstanding dues at the earliest.***

#### Deliberations in the Meeting

The representative of Mizoram intimated that power department has already got the budget allocation and Mizoram would clear the outstanding dues by the end of the current financial year i.e., by March 2013.

Nagaland intimated that they will clear the outstanding dues by March 2013.

#### 4.2 **Non-payment of NERLDC fees and charges bills**

In Terms of the CERC (fees and charges of RLDC and other related matters) Regulation, 2009 notified by CERC vide dated 18th September' 2009, CERC has approved fees and charges of RLDCs and NLDCs for the control period 2009-14.

After issuance of orders, NERLDC is raising the bills on monthly basis on the 1st working day of every month as per the Fees and Charges Regulation. The status of latest outstanding is enclosed at Annexure-4.2.

***Defaulting constituents may liquidate outstanding dues at the earliest.***

#### Deliberations in the Meeting

The defaulting constituents agreed to liquidate the outstanding dues within the period as under:

Sl No.	Organisation	Liquidation of the outstanding dues by
1	Ar. Pradesh	March, 2013
2	Manipur	March, 2013
3	Mizoram	March, 2013

MeECL assured that they would clear the outstanding dues as soon as possible.

#### 4.3 **Outstanding dues for AMC of SCADA-EMS**

Outstanding dues are as below:

	Overhead charges	Supplementary FERV	AMC
AEGCL	958355/-	54946/-	00
MeECL	1315856/-	53478/-	00
TSECL	273256/-	52556/-	00

***AEGCL, MeECL and TSECL may liquidate the outstanding dues at the earliest.***

#### Deliberations in the Meeting

The concerned constituents were requested to liquidate the outstanding dues at the earliest.

#### 4.4 **Rebate against payment of NERLDC fees and charges**

To streamline the realization of RLDC Fees and Charges, it has been decided to allow rebate to the users as per provision given below:

- i) A rebate of 2% on gross bill amount settled through RTGS, EFT, LC or Cheque up to seventh day (i.e. T+6) from the issuance of the bills, where T is the date of issuance of the bills. LC shall be back up for security mechanism.

- ii) The rebate of 1% shall be allowed when payment is made through T+6 to T+30 days from the issuance of the bills.

***Members may please note.***

Deliberations in the Meeting

The members of commercial committee noted as above.

**4.5 Two day programme on Smart Metering organized by NERLDC**

Programme on "Energy Metering – Moving towards Smart Meters" was organised by NERLDC at Guwahati on 26.11.12 & 27.11.12. There was overwhelming participation from all Constituents of NER.

Following were highlights and resolutions:

- a) AMR project will be implemented in NER at the earliest – NERTS will take action
- b) As discussed and suggested by Constituents, CTU will initiate action to procure Laptop instead of DCD in future. NERPC will advice CTU on behalf of Constituents.
- c) Database of Accuracy class of CT/PT in NER will be prepared and there will be recommendation to replace all class 1 and class 0.5 by 0.2 or 0.2S class. NERPC will make the database.

***Commercial committee may note / deliberate.***

Deliberations in the Meeting

a) GM, NERTS informed that AMR project is already under implementation in NR & ER. The implementation of AMR project in NER is under process. Based on the expenditure incurred in Eastern Region, it is estimated that about 1.7 Crores would be required for procurement of 260 meters (for 80 locations) for NER including AMC for a period of four (4) years.

The CC forum advised NERTS to give detail presentation on AMR project in NER in the next OCC meeting.

b) GM, NERTS also stated that as decided by Constituents, Laptops would be procured instead of DCD in their next round of procurement.

c) Member Secretary informed that based on the data collected by the protection audit team in respect of accuracy class of CTs/PTs, necessary action may be initiated by NERTS for replacement of CT/PT with accuracy class of 0.2 or 0.2s class (in place of accuracy class of 0.5 /1.0).

**4.6 Non-submission of weekly SEM readings by Rangia (PG), Gelephue & Motonga (Bhutan), Deomali (Ar.Pradesh) & Rengpang (Manipur).**

As per IEGC (effective from 3.5.2010) Sub-clause-22 of Clause-6.4 (demarcation of responsibilities), all concerned utilities in whose premises SEMs are installed shall take weekly meter readings and transmit the same to RLDC by Tuesday noon for timely issuance of UI-account.

Rengpang and Deomali are the drawal points of the respective states. SEMs have been installed at all the drawl points. But weekly SEM readings are not being received from the said locations. In the absence of readings from these locations, NERLDC/NERPC has to use other end readings for energy accounting computations.

POWERGRID, NERTS / Manipur / Ar. Pradesh need to take action.

For calculation of export & import of power through 132kV Deothang - Rangia transmission line, it is required to send weekly SEM reading of both ends meter to ERPC.

***NERTS, POWERGRID may do the needful.***

Deliberations in the Meeting

The concerned constituents were requested to send the readings of SEM regularly as it is affecting timely issuance of UI accounts of NER.

**4.7 Delayed receipt of weekly SEM readings**

Weekly SEM readings from Kahelipara and Sarusajai of AEGCL and Bongaigaon of POWERGRID most of the times get abnormally delayed and needs repeated reminders for sending data.

***AEGCL and POWERGRID may do the needful.***

Deliberations in the Meeting

The committee decided to refer the issue to OCC forum for early necessary action.

**4.8 Monthly reading of 33 and 11KV feeders connecting Assam and AP, Nagaland**

The energy exchange readings are to be submitted on monthly basis by Assam. The statement has not been received after Jun'12. The reading of Jun'12 is being used till now to arrive at peak /off-peak MW exchange between Assam, AP, and Nagaland.

***Assam may send the readings regularly to enable realistic computation.***

Deliberations in the Meeting

Assam was requested to send the readings regularly. Assam representatives agreed to look into the matter.

#### 4.9 **Regular submission of reconciliation statements**

NERLDC is issuing quarterly reconciliation statement pertaining to UI and Reactive settlement. The status of signing of same by NER Constituents is attached at Annexure - 4.9. It can be seen that the statement is not signed up-to-date by some of the constituents. All constituents should sign the statement or give their comments in a time bound manner say within one month of receipt of the same.

***All concerned may do needful accordingly.***

#### Deliberations in the Meeting

The committee advised NERLDC to depute person for collecting signed reconciliation statement. The constituents agreed to take necessary action from their end.

#### 4.10 **Tabling quarterly figures of UI and Reactive Pool Account in Commercial Committee**

The consolidated quarterly figures were distributed to the constituents in the meeting. Observations, if any may be sent within 15 days to NERLDC. If no observation is received, the accounts as circulated will be taken as final.

#### 4.11 **Installation/Replacement issues**

1) In the 18th CCM meeting dated 14.03.12, requirement of SEMs at both ends of following ISTS were highlighted (presently meters are there in one end only):

- Balipara end of 400kV Balipara-Bongaigaon D/C
- Misa end of 220kV Misa-Dimapur D/C
- Badarpur end of 132kV Badarpur-Kumarghat
- Haflong end of 132kV Haflong-Jiribam
- Jiribam end of 132kV Jiribam-Badarpur
- Imphal end of 132kV Dimapur-Imphal
- HV side of 220/132kV Dimapur ICT-II

2) In the 73 rd OCC meeting held at Imphal on 09.05.12, the issue of SEM time drift was highlighted by NERLDC. Necessary formats were circulated to capture the time drifts. It was also requested that looking at the time drift, action should be taken to advance / retard time through DCD till meter time and standard time difference comes down to less than one minute.

Compliance reports have been received from several locations. But at the same time SEM failure reports were also received from Jiribam, Loktak and Khliehriat which is suspected due to action taken for time correction. The matter was also reported to L&T personnel who in turn requested to keep the time synchronization program on hold for the 62 nos. of SEMs bearing serial no. NP 6898 A - NP 6959 A. **Unless all these defective meters are replaced, time synchronisation activity cannot be resumed selectively as there may be attempt on these meters also (it happened in Loktak).**

3) **In NER there are 38 no. of Main Meters connected on the outgoing feeders of Generating Stations. For each of these 38 Main Meters corresponding Check Meters are to be installed** in compliance of clause 7 of "CEA Regulation on Installation & Operation of Meters" which states that Check Meters are to be installed on all outgoing feeders of Generating Stations. Matter was highlighted vide NERLDC letter dated 24.07.2012 addressed to GM (O&M), NERTS.

4) New SEMs for NER future requirement is immediately needed. At present there is no spare and there is problem to locate a replacement in case of malfunctioning of a meter. This was experienced in case of recent problem with meters in Loktak. There will be requirement of meters in Silchar-Byrnihat and other new lines also.

**NERTS may furnish action plan with time schedule for above points which are extremely crucial.**

#### Deliberations in the Meeting

GM, NERTS informed that action has been initiated for installation and replacement of SEMs as discussed in 18<sup>th</sup> CCM. He informed that out of 62 defective meters, 4 meters has already been replaced, 20 more meters will be replaced by March 2013 and remaining 38 meters will be replaced within a month time. He also informed that out of 116 SEMs and 50 DCDs arrived in the stock, 50 meters with 2 DCDs, which were borrowed from ER on urgent basis will be returned to ER. The remaining 66 SEMs and 48 DCDs will be installed in the identified locations.

#### **4.12 Incorrect reading issues**

5) Large mismatch in End 1 - End 2 check for Kathalguri-Mariani feeder is observed for last several weeks and Mariani end meter is suspected to be faulty.

6) Problem with a no. of new SEMs in Silchar, Dullavcherra, Panchgram. Comparison of End 1 - End 2 show there is large mismatch in Palatana-Silchar1, Palatana-Silchar2, Silchar - D'Cherra and Silchar - Panchgram. It appears that there is problem with polarity as well as incorrect CT Ratio (matter informed to NERTS vide e-mail dated 31.12.12).

7) Negative polarity issue at Nirjuli end for Meters of two 132/33 kV ICTs (Meter no. 5824 / 5825)

8) Meter no. 5793 for Naharlagun feeder faulty for more than 2 years.

9) Net bus check (sum of incoming and outgoing energy in a bus for a particular time block should be close to zero) is one tool for validation of weekly SEM readings. Net bus is not ok in substations like Misa, Balipara, Bongaigaon, Silchar, Bongaigaon, Dimapur, Jiribam, Salakati and generating stations like Loktak & AGBPP. Exact meter cannot be identified due to non-availability of meters at both ends of lines. **Net bus correctness in all CTU substations / generating stations should be ensured.**

#### Deliberations in the Meeting

It was decided that status of readings of the SEMs and associated problems would be sent to NERTS on weekly basis by NERLDC and accordingly corrective measures would be taken up by NERTS.

5. **Agenda items from TSECL**

5.1 As on date Mizoram has an outstanding of about Rs10 crores & above excluding the surcharges as applicable. It is also to state that LC for monthly payment in favour of TSECL has not yet been made operational in spite of repeated persuasion since Aug12.

***In view of the above, it is to mention that Mizoram is not only losing the rebate but also liable to pay surcharge as applicable from due date followed by power regulation as per stipulation of PPA.***

Deliberations in the Meeting

Mizoram representative stated that proper reconciliation was necessary to ascertain exactly how much amount Mizoram is required to pay to Tripura after which necessary actions can be initiated for payment. He, however, stated that Mizoram is putting all effort to clear outstanding dues. He also intimated that the matter has already been put up to competent authority for updation of LC and the administrative approval is awaited.

Mizoram was requested to liquidate all outstanding dues and also to make the requisite amount of LC operational in favour of Tripura at the earliest.

5.2 As on date Manipur has an outstanding of about Rs 4 crores approx excluding the surcharges as applicable. Beyond this an amount of Rs 1 crores as outstanding is still pending since 2010. Repeated persuasion is being made to clear up the dues for timely payment to TSECL

***In view of the above, it is to mention that Manipur is not only losing the rebate but also liable to pay surcharge as applicable from due date followed by power regulation as per stipulation of PPA.***

Deliberations in the Meeting

Manipur representative intimated that the payment has already been made, but there appears to be some problem with the bank, which would be sorted out by the end of March, 2013.

5.3 TSECL is not receiving the UI receivable from pool in time. TSECL proposes & request NERLDC to distribute the UI payment proportionately to the constituent as well as ER also as per regulation.

***Members may like to deliberate.***

Deliberations in the Meeting

The committee decided to defer the issue for the time being. In the mean time NERLDC was advised to consult ERLDC before finalizing the methodology to distribute the UI payment to constituents as proposed by Tripura.

5.4 TSECL used to back down its own generation for allowing evacuation of Palatana power in different spell which resulted in commercial losses. As per PPA with GAIL, TSECL is to Pay 90% of contracted quantity of Gas, Side by side paying the UI & POC charges etc. The commercial loses suffered for such circumstances needs to be shared.

***Members may like to deliberate.***

Deliberations in the Meeting

The issue regarding backing down of generation by Tripura during trial run of Unit#1 of OTPC and the commercial losses of Tripura was deliberated in the meeting. However, the committee was of the opinion that all other beneficiary states had also shared the burden by backing down their own generation and sacrificing their entitlements due to backing down of generation from Central Sector Generating Stations. The central sector generating stations had also sacrificed the energy charges by backing down their generations.

It was agreed that all beneficiaries will have to bear burden of commercial losses for commissioning of such big Unit in the region. TSECL was advised to submit the details of commercial losses incurred during trial period of Pallatana in the next OCC meeting only for information of the committee.

**5.5** TSECL is not receiving the NHPCs energy bill in time as well as not receiving the bill through Fax. Bills also are not also understood by TSECL as so many supplementary bills are being raised by NHPC. NHPC should simplify the energy bills so that the claim is easily understandable.

***Members may like to deliberate.***

Deliberations in the Meeting

Deliberated along with item no. 2.2

**5.6** NEEPCO has requested TSECL to provide construction power to R.C.Nagar combine cycle plant from their auxiliary station supply. The site has been visited by TSECL and observed that a meter ABT (compliant) is to be arranged for recording the energy consumption. Since the sale of power to NEEPCO will take place from the station auxiliary supply, so it has to be accounted and reflected in REA. Therefore POWERGRID may be requested to install a meter in consultation with NEEPCO so that energy consumption is recorded for billing purpose.

***Members may like to deliberate.***

Deliberations in the Meeting

After discussion, it was decided that TSECL will install the SEM and the reading will be booked against Tripura drawal and the same will be reflected in monthly REA.

**6. Agenda items from POWERGRID.**

**6.1 Outstanding due**

Total Outstanding of POWERGRID's NER beneficiaries (including surcharge) as on 14/02/2013.

(Rs in Crores)

CONSTITUENTS	Outstanding against Non- PoC bills	Outstanding against PoC bills	Outstanding beyond 60 days	Total Outstanding (including surcharge)
Ar. Pradesh	1.19	2.23	1.13	3.42

CONSTITUENTS	Outstanding against Non- PoC bills	Outstanding against PoC bills	Outstanding beyond 60 days	Total Outstanding (including surcharge)
ASEB (Assam)	2.34	2.46	3.77	10.23
Manipur	5.63	0.39	5.86	8.42
MeECL (Meghalaya)	2.46	24.95	19.66	27.41
Mizoram	1.03	3.34	1.78	4.37
Nagaland	4.22	0.16	4.25	5.67
TSECL (Tripura)	-0.31	-0.13	0	0.01
TOTAL	16.56	33.40	36.45	59.53

The total outstanding as on 14/02/2013 is Rs. 59.53 Crores. Out of the total outstanding, Rs. 36.45 Crores is beyond 60 days. Outstanding against MeECL is of serious concern. MeECL is requested to liquidate the outstanding as per liquidation plan forwarded to POWERGRID.

***Constituents are requested to clear outstanding dues and at least the outstanding dues over 60 days, by 31st March, 2013. If the outstanding dues over 60 days are not cleared at the earliest or a time bound commitment for liquidation of outstanding dues is not received from the Constituents, POWERGRID may not have any other alternative, but to resort to regulation.***

#### Deliberations in the Meeting

The concerned beneficiaries were requested to liquidate the outstanding dues immediately so as to avoid regulation of power by Powergrid.

## 6.2 LC Requirement

LC requirement against PoC billing as per Cl. No. 3.6 of BCD (Billing Collection and Disbursement) Procedures of CERC order No. L-1/44/2010-CERC, Dtd. 29.04.11 states that the Letter of Credit shall have a term of twelve (12) Months and shall be for an amount equal to one point zero five (1.05) times the average of the First Bill Amount for different months of the Application Period, as computed by the Implementing Agency (IA) for the DIC, where tripartite agreement for securitization on account of arrears against the transmission charges with the Government of India exist.

#### REQUIREMENT AND STATUS OF LC AS ON DATE (06.02.13) OF NER BENEFICIARIES

(Rs in Lakhs)

SI No	Beneficiary	LC available		LC Required		
		Amount	Validity	Average first bill amount (Apr-Sep '12)	LC required (Avg. first bill x 1.05)	Shortfall
1	Arunachal Pradesh	252.00	31 <sup>st</sup> Mar'13	204	214.20	

Sl No	Beneficiary	LC available		LC Required		
		Amount	Validity	Average first bill amount (Apr-Sep '12)	LC required (Avg. first bill x 1.05)	Shortfall
2	Assam	1339.00	31 <sup>st</sup> Dec `12	1283	1347.15	8.15
3	Manipur	180.00	1 <sup>st</sup> Dec '12	194	203.70	23.70
4	Meghalaya	250.00	10 <sup>th</sup> Dec '10	328	344.40	94.40
5	Mizoram	132.61	4 <sup>th</sup> May '13	134	140.70	8.09
6	Nagaland	163.00	21 <sup>st</sup> Mar '13	183	192.15	29.15
7	Tripura	183.00	14 <sup>th</sup> Feb '13	156	163.80	

Note: – 1. LC shall be operated as per laid down procedures of CERC order. 2. Tripartite agreement (TPA) for securitization on account of arrears against the transmission charges with the Government of India exists for all the constituents.

***The constituents are requested to enhance/renew LC to avoid regulation of power in accordance with CERC norms.***

#### Deliberations in the Meeting

The defaulting constituents were requested to enhance/renew LC at the earliest.

### **6.3 Signing of Transmission Service Agreement**

The TSA has been signed by NEEPCO, Mizoram, Arunachal, and Manipur. Signing of TSA with MeECL and Nagaland shall be completed within February 13. Since signing of TSA is mandatory as per CERC norms, ***the rest Constituents are requested to sign the TSA which has already been sent to them.***

#### Deliberations in the Meeting

The concerned constituents were requested to take necessary action for signing of TSA which is mandatory as per CERC norms.

### **6.4 Procurement of Special Energy Meters:**

The installation & Operation of energy meters in the grid is governed by the Central Electricity Authority (Installation and Operation of Meters) Regulations. Clause 7 of the regulation specifies the locations where meters are required to be installed. The regulation requires, inter-alia, that all outgoing feeders at generating stations be provided with check meters. Presently only main and standby meters are provided. It is therefore proposed to procure and install 40 Nos of meters for this purpose at a total estimated cost of Rs. 7, 80,120. The cost of supply & installation shall be reimbursed to POWERGRID by the beneficiary states.

***Members may like to deliberate.***

#### Deliberations in the Meeting

It was decided that NERTS would finalise the number of SEM required in consultation with NERLDC. The detail proposal would then be put up to TCC/NERPC for approval.

## 6.5 Surcharges on arrear Electricity Charges claimed by ASEB:

Electricity charges in respect of power drawn by POWERGRID from the tertiary transformer in our 400 KV Substations at Misa (Kothiatoli), Balipara and Bongaigaon from September 2000 to July 2002 could be released after the REA issued for the period by NERPC in April 2008. We had therefore requested ASEB's site offices to waive the surcharge claimed by ASEB on this arrear Electricity charges as the delay on account of issue of REA was not attributable to POWERGRID. The issue was also raised & discussed in last CCMs of NERPC but surcharge bills continue to be raised by APDCL.

***We would, therefore like to request ASEB to look into the matter of waiver of the surcharges in respect of our 400 KV Balipara, Misa (Kothiatoli), and Bongaigaon Sub-Station to settle this long pending issue.***

### Deliberations in the Meeting

It was decided that NERTS and ASEB will explore the possibility of waiving the surcharges and settle the issue bi-laterally without further delay.

## 7. Agenda items from NEEPCO

### 7.1 ***Modification of Design Energy of hydro Electric Plants for calculation of ECR as per CERC (Terms and Conditions of Tariff) Regulations 2009:***

Actual generations from the Hydro Power Generating Plants of the North Eastern Electric Power Corporation Ltd (NEEPCO) during the financial years 2009-10, 2010-11 and 2011-12 are furnished below.

Name of the Power Station	Approved Design Energy (in MU)	Actual generation (in MU)			COD
		2009-10	2010-11	2011-12	
Kopili HEP	1186.14	702.311	710.638	912.07	12.07.1997
Khandong HEP	277.61	147.797	156.141	178.775	04.05.1984
Ranganadi HEP	1509.69	1025.260	1407.94	979.985	12.04.2002
Kopili Stage II	86.30	80.562	81.745	93.948	26.07.2004
Doyang HEP	227.24	180.406	256.651	228.831	08.07.2000

Actual Plant Availability Factors (Financial year-wise) achieved by the above mentioned generating Plants are as follows:

Name of the Power Station	Normative Plant Availability (in %)	Actual Plant Availability (in %)		
		2009-10	2010-11	2011-12
Kopili HEP	79	63.52	68.21	78.41
Khandong HEP	69	64.78	60.99	75.39
Ranganadi HEP	85	94.89	90.42	94.11
Kopili Stage II	69	61.79	60.50	74.14
Doyang HEP	73	62.39	76.54	73.66

Based on the Plants, documents/records as well as the actual plant availability of the respective generating stations, it is evident that the reasons for low generations, wherever applicable, are not entirely attributable to the generating company, i.e., NEEPCO. Under the circumstances, the provision of the Regulation 22 (6) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009 is applicable for the purpose of modification of design energy for such generating plants till the energy charge shortfall of the previous year has been made up.

Though the matters have been discussed in various Commercial Coordination (C.C.) Committee Meetings of the North Eastern Regional Power Committee (NERPC) since the 13th C.C. meeting followed by submission/circulation of modified design energy by NEEPCO for calculation of ECR for the financial years 2010-11 and 2011-12, but no further action for billing in compliance to the above mention Regulation could be made to the beneficiaries due to non confirmation/communication from the committee constituted for the purpose of verifying the NEEPCO's calculation. Moreover, it was decided in the 18th C.C. meeting that the CEA may be approached by NERPC Secretariat for clarification on the issue after receiving the comments from all the states within a period of 02 (two) months on the modified design energy for the financial year 2011-12 circulated by NEEPCO during the 17th CC meeting.

However, till today no further communication is received by NEEPCO either from CEA or NERPC or beneficiaries on the above mentioned subject. Moreover, the matter is under the purview of the Audit for non-raising the bills on the beneficiaries with modified design energy in terms with the above mentioned regulations.

Under the circumstances as well as being a very old pending issue, NEEPCO have no option but to raise bills on the beneficiaries in compliance with the Regulation 22 (6) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009.

***The above is for appraisal among the members and deliberation, if any.***

#### Deliberations in the Meeting

NERPC informed the house that the matter was referred to CERC and no response has been received so far. After detail discussion, the committee advised NEEPCO to file petition to CERC on the issue.

#### **7.2 Submission of payment release intimation by the beneficiaries:**

NEEPCO is receiving payment from the beneficiaries either

- Through the banks by Letter of Credit (LoC).
- Directly through Cheque/RTGS.

However, in many cases no immediate intimation is received by NEEPCO from its beneficiaries regarding the payment released by them & bill references there-of, resulting in difficulty on the part of the generating company for early updating of its accounts for the "Debtors for sale of energy" as well as "Beneficiary-wise outstanding status". It appears to be more crucial when payments are released by the beneficiaries in parts.

Considering the importance/urgency of giving immediate intimation to NEEPCO regarding any payment released, the above is brought to the notice of members for deliberation and taking necessary action accordingly.

#### Deliberations in the Meeting

The representative of Assam assured that details of bill references will be intimated to NEEPCO at the time of payment. Other constituents were also requested to intimate bill payment details to NEEPCO whenever payments are made.

**7.3** North Eastern Regional Power Committee (NERPC) has launched its new Website few months back replacing its earlier website. However, while availing facilities/services of the new website, we are facing certain difficulties for retrieving data/information from its various pages; some of such deficiencies are as follows:

- Commercial activities:
  - i. Regional energy accounts (REA) is available since May'11. It is desirable that the said page should contain financial year-wise at least for last 03 (three) years monthly REA along-with the related amendment/addendum in addition to month-wise REA for the current financial year.
  - ii. Most of the pages relating to UI issues are showing as "Under construction", which requires to be activated at the earliest with updating data for last 03 (three) financial years in addition to current year records.
  - iii. No page is found available for RTDA and RTA.
- Operational activities:
  - i. Pages relating to "Power supply position", "Maintenance schedule" & "Open cycle certifications" are "Under construction"
  - ii. Page relating to "Allocation order" requires to be updated with the latest orders.

The above list is not exhaustive but indicative only. Considering the importance of the utility of NERPC website to the generators, transmission licensees, distribution licensees & all other stakeholders, the updating of the said site is very important.

***The above is brought to the notice of members for deliberation.***

#### Deliberations in the Meeting

It was informed that separate links are to be provided for RTA/ RTDA. Since process of database conversion is going on for different accounts, links provided under UI and reactive Accounts will be activated once the conversion is complete. Members suggested that regular updation of NERPC website is required.

#### **7.4 Regulation of Power Supply and related aspects/procedures:**

Regulation of Power Supply is governed by the Central Electricity Regulatory Commission (Regulation of Power Supply) Regulations, 2010. During the last 01 (one) year, NEEPCO is resorting to the regulation of power supply and trading there-of time to time for various reasons in compliance to the aforesaid Regulations. However, for better understanding on its procedure and related formalities/requirements, such as, Regulation notice, Scheme for Regulations, Indemnity Bond & terms thereof etc, NEEPCO proposes for discussion on the same.

**Members may like to deliberate.**

Deliberations in the Meeting

Committee decided to refer the matter to OCC forum for discussion.

**7.5 Proposal for Comprehensive Rotor Inspection (CRI) and Compressor Rotor Refurbishment (CRR) of MHI make Gas Turbine unit # 1 to 4 of AGBP and Procurement of one GT Rotor.**

As per manufacturer's guidelines, Mitsubishi Heavy Industries (MHI) make gas turbines are due for Comprehensive Rotor Inspection (CRI) and Compressor Rotor Refurbishment (CRR) between 80,000 ~ 1, 00,000 EOH. The purpose of CRI is to clean and verify the integrity of each part of the rotor, which requires complete disassembly of all the three sections of the rotor viz. Compressor, Torque Tube and Turbine. As on date all the four units of AGBP supplied by MHI has crossed the recommended EOH. Apart from the above, during the previous major overhauling of GT nos. 2, 3 and 4, Compressor Disc Migration was observed in row nos. 13, 14 and 15. This may cause change in shaft vibration characteristics, compressor performance degradation, rubbing with stationary parts, fracture or cracking of discs. Further, ageing and embrittlement of material of discs in row nos. 16, 17 and 18 have occurred. Hence, immediate CRI/ CRR are the needs of hour to prevent prolong forced outages.

Besides OEM, M/S MHI is a resourceful manufacturer/ supplier of gas turbines worldwide. The items supplied by them are proprietary in nature. The properties of materials for various components are known to them and maintenance schedules are generally recommended based on the materials. Further, completion of the said job leads to further extension of operating life of the rotor to another 80000 ~ 100000 EOH.

In view of the above, it is proposed to carry out CRI/CRR for 3 units and purchase of one rotor to avoid prolong outage of units during CRI/CRR as the work will take around 6 ~8 months. The new rotor shall be utilized in the unit of highest operating hours during its major overhauling. The removed old rotor of this unit shall be sent to MHI Takasago works for CRR/CRI and shall be utilized in the unit of 2nd highest operating hours after CRI. Accordingly, removed old rotors of 2nd and 3rd highest operating units shall be utilized in 3rd & 4th highest operating units respectively after CRI. The entire work shall be completed within a span of four years starting from 2013-14. The OEM is of the opinion that the work cannot be carried out at site due to lack of required facility. So without an extra rotor, the entire work will cause continuous outage of one unit for more than one year.

The estimated financial involvement for the above proposal based on the offer of M/S MHI is around Rs. 80.00 Crs.

***In principle acceptance of the beneficiaries is solicited on the requirement of the CRI/ CRR on technical ground.***

Deliberations in the Meeting

The constituents of the region were informed about the proposed plan of NEEPCO for Comprehensive Rotor Inspection (CRI), Compressor Rotor Refurbishment (CRR) of MHI make Gas Turbine unit # 1 to 4 of AGBP and Procurement of one GT Rotor.

## **8. Agenda items from OTPC**

### **8.1 Infirm Power Injected by Palatana CCGP - UI Rate thereof:**

Consequent upon synchronisation of Unit I of Palatana CCGP on 22nd October, 2012, the plant has been injecting infirm power into the Grid. As per CERC (Terms & Conditions of Tariff) Regulations, 2009, the supply of infirm power should be accounted as Unscheduled Interchange (UI) and paid for from the regional UI pool account at the applicable frequency –linked UI rate.

Accordingly, the detail injection of infirm power from Palatana and amount thereof has been shown in the weekly UI accounts published by NERPC. It was observed that NERPC has put a cap on UI rate mentioning the following. "Since there is no specified rate in the UI regulation for gas based power stations other than APM gas as fuel, cap rates for infirm power injected into the grid is considered as Rs 2.60 per unit". As per relevant CERC Regulation, there is no capping on UI rate against power generated from a Power Station using Non –APM gas as fuel. Palatana project is using Non-APM gas as fuel (copy of the relevant page of Gas Supply & Purchase Agreement enclosed). The matter was taken up with NERPC vide letters dated 20th November 2012 and 7th December, 2012 to remove the cap on UI rate for the infirm power from Palatana project. However, NERPC has been still calculating the UI accounts with the cap rate. As such it is requested to remove the cap rate on UI against the power injected from Palatana and revise the UI accounts accordingly.

***Members may like to deliberate.***

#### Deliberations in the Meeting

Mr. Lalrinsanga, Assistant Secretary, NERPC clarified that as per CERC's UI Regulation, the infirm power injected into the grid by a generating unit of a generating company / IPP, during the testing prior to COD of the unit, shall be paid at UI rates for the quantum of power injected into the grid subject to ceiling of cap rates corresponding to the main fuel, used for such generation. In the regulation, the cap rate has been specified only for APM gas which is Rs 2.6 per unit and the same has been used for calculation of UI for OTPC.

DGM, OTPC requested that the cap rate may be removed as the fuel used by Palatana generating station is non APM gas.

Member Secretary, NERPC suggested that OTPC may file petition to CERC requesting to specify the cap rate for non APM gas, being used by OTPC for generation of power.

### **8.2 Opening of Payment Security Mechanism by the Beneficiaries:**

As per the Allocation of Power order by the Ministry of Power, Govt. of India and the Power Purchase Agreements (PPA) signed between OTPC and all the beneficiary states of NER, the beneficiary states are required to open Letter of Credit (LC) as a payment security mechanism in favour of OTPC. No Beneficiary States except APDCL and Deptt. of Power, Govt. of Nagaland has opened the LC till date. As such, all the states are requested to open the Letter of Credit immediately in favour of OTPC.

***Members may like to deliberate.***

Deliberations in the Meeting

- Mizoram: Administrative approval has already been obtained and required LC will be opened shortly.
- MeECL: The management has been intimated for necessary action.
- TSECL: The matter is under process by the Govt. and requested OTPC to pursue further with Tripura govt.
- Ar. Pradesh: Approval from Ar. Pradesh govt. is expected by end of this financial year.
- Manipur: Required LC will be opened by the end of March, 2013.

**8.3 Balance money payable to ONGC Tripura power Company Ltd. (OTPC) for taking up Equity participation in North East Transmission Company Ltd. (NETC):**

Government of Nagaland has committed to take up 4% of the equity in NETC which amounts to Rs. 16.456 Crores. Out of this, the Government of Nagaland has contributed Rs. 8.40 Crores till date. In the interest of the timely completion of the transmission project as well as according to the terms of the Shareholders Agreement, OTPC has contributed a total amount of Rs. 16.456 Crores (4% of total equity requirement of NETC) towards equity contribution in transmission project on behalf of Government of Nagaland out of which only Rs. 8.40 Crores was received and the balance money is yet to be received by the Company.

***The Department of Power, Government of Nagaland may be requested to remit the balance amount of Rs. 8,05,60,000/- to OTPC at an early date.***

Deliberations in the Meeting

The representative from Nagaland assured that payment of the balance amount will be made to OTPC shortly.

**9. Agenda items from NHPC**

**9.1 *Outstanding dues of NHPC for more than 60 days:***

APDCL, Assam: An amount of Rs. 3.78 Crs (including surcharge of Rs. 0.21 Crs) is outstanding for more than 60 days on account of energy supplied from Loktak Power Station. APDCL has not released the installment amount of Rs. 2 Crs (Rupees two crores only) for the month of January, 2013 as per agreed liquidation plan.

***APDCL may be requested to clear the outstanding dues for more than 60 days as per agreed liquidation plan along with monthly bills.***

Deliberations in the Meeting

APDCL was requested to liquidate the outstanding dues at the earliest.

**9.2 *Signing of PPA with Department of Power, Govt. of Arunachal Pradesh:***

Signing of PPA in respect of Subansiri Lower HE Project (2000 MW) in Arunachal Pradesh has been pending since long in spite of regular follow up.

**So, Department of Power, Govt. of Arunachal Pradesh may be requested for early signing of PPA.**

Deliberations in the Meeting

The representative from Ar. Pradesh informed that the approval of state govt. is awaited for signing of the PPA in respect of Subansiri Lower HE project. Ar. Pradesh was requested to intimate the status in the next meeting.

**9.3 Signing of BPSA in respect of Loktak Power Station:**

Signing of BPSA in respect of Loktak Power Station is pending with Power & Electricity Department, Govt. of Mizoram, Department of Power, Govt. of Arunachal Pradesh and Assam Power Distribution Company Ltd., Assam in spite of regular follow up.

***They may be requested for early signing of BPSA.***

Deliberations in the Meeting

Assam representative intimated that the matter is under process with the Govt.

All the concerned states were requested to expedite the process for signing of BPSA in respect of Loktak Power Station at the earliest.

**10. Any other item with permission of the Chair**

(A) Roster for hosting of Commercial Committee meeting:

Member secretary stated that Commercial sub-committee meeting should be held regularly on quarterly basis as many commercial issues need to be discussed and deliberated upon by the members as they involve financial burden on the constituents. NERPC Secretariat officials presented a roster for hosting of CC meetings indicating the name of the host/constituents and likely month of the meeting. The members have agreed to host the CC meeting as per roster prepared by NERPC. The list is attached at Annexure B.

As per roster, the next CCM is to be hosted by NTPC and NTPC has agreed to host the 20<sup>th</sup> CCM.

(B) It was decided that representative (s) from commercial wing/division should participate in monthly OCC meetings and similarly representative (s) from SLDC/Operation division / wing should participate in quarterly commercial committee meeting in order to facilitate better coordination between operation and commercial activities in the region.

**11. The next Commercial Coordination Sub-Committee meeting will be held in the month of May 2013. NTPC was requested to host the meeting. The date and venue of next meeting will be intimated separately.**

The meeting ended with thanks to the chair.

**Annexure – A**List of participants in the 19th Commercial Committee meeting of the NERPC

SN	NAME OF PARTICIPANT	DESIGNATION	e-mail/ Mobile/ Fax
<b>ARUNACHAL PRADESH</b>			
1	Hage Mima	EE	mimahage@yahoo.co.in/9436041594
<b>ASSAM</b>			
1	P. K. Dutta	CGM	cgmcom.apdel@rediffmail.com/9433099810
2	P. K. Sarma	GM, Com (T)	sarmaprasantakr@gmail.com/9435344083
3	S. N. Kalita	GM (F&A)	satyenkalita@yahoo.co.in/9435707814
4	M. K. Adhikary	DGM (Com)	m.adhikary@msn.com/9864049287
5	Kumud Goswami	AGM (Comml)	kumud_goswami@rediffmail.com/9864020019/0361-2739501
<b>MANIPUR</b>			
1	I. Saratchandra	SO (Comml)	iromsaratchandra@yahoo.com/9856208473/0385-2451106
<b>MEGHALAYA</b>			
1	A. Kharpan	SE (SLDC)	apkharpan@yahoo.co.in/9436177802/0364-2591174
2	F. E. Kharshiing	EE (SLDC)	fredericke@gmail.com/9863066960/0364-2551967
<b>MIZORAM</b>			
1	Benjamin L. Tlumtea	EE (Comml)	bltlumtea@yahoo.com/9436151424/0389-2320827
<b>NAGALAND</b>			
1	S. I. Asangba Tikhir	SDO	sldc.ngl@gmail.com/8974363552/03862-280118
<b>TRIPURA</b>			
1	Arup Gan Chaudhuri	DGM (C&T)	ad_comm@rediffmail.com/9436139311/0381-2355345
2	B. Debbarma	DGM (SO)	db.bikram@gmail.com/9436450501/0381-2350795
3	Debabrata Pal	SM (Comml)	ad_comm@rediffmail.com/9436500244/0381-2325345

SN	NAME OF PARTICIPANT	DESIGNATION	e-mail/ Mobile/ Fax
<b>NEEPCO</b>			
1	P.C. Barman	DGM (Comml)	barmanpcb@gmail.com/9435144141/0364-2225035
2	Rana Bose	Sr. Manager (Fin.)	rana_09@rediffmail.com/9436632123/0364-2225035
<b>NHPC</b>			
1	Amrik singh	Sr. Mgr (Comml)	amriksingh@nhpc.nic.in/9560455326/0129-2255706
2	T. Nimai Singh	Mgr (E)	tnimai_singh@yahoo.in/9436894868/03879-261740
3	Mukesh Jain	AM (Fin-Comml)	mkjain@nhpc.nic.in/9818819993/0129-2255706
<b>NTPC</b>			
1	A. K. Srivastava	AGM (Comml)	aksrivastav@ntpc.co.in/9438233232/0674-2395324
2	Umesh Ambati	Sr. Mgr (Comml)	umeshambati@ntpc.co.in/9650990396
<b>OTPC</b>			
1	Arup Ch. Sarmah	DGM (Comml)	arupc.sarmah@otpcindia.in/9871839502
<b>NERTS (Powergrid)</b>			
1	A. Patir	GM	apatir@gmail.com/9436302529
2	P. C. Bhagawati	Chief Mgr	bhagawati1956@gmail.com/9436302809
<b>NERLDC</b>			
1	R. Sutradhar	DGM	rajib_shg@hotmail.com/9436302714
2	Babul Roy	Dy. Mgr	babulroy2010@yahoo.com/9436335373
<b>NERPC</b>			
1	S. K. Ray mohapatra	MS (I/C)	skrmohapatra@rediffmail.com/9818527857/0364-2520030
2	Lalrinsanga	Asst. Secretary	lhrengsa@yahoo.com/9436161886/0364-2520030
3	S. M. Aimol	EE (Comml)	shialloa@yahoo.com/8974002106/0364-2520030

ANNEXURE -B

<b>CC Meeting</b>	<b>Date</b>	<b>Venue</b>	<b>Host</b>
14 <sup>th</sup> CCM	12.11.2010	Circuit House, Tawang	Dept. of Power, Govt. of AP
15 <sup>th</sup> CCM	04.03.2011	SLDC Conference Hall, Agartala	TSECL
16 <sup>th</sup> CCM	29.08.2011	NEEPCO Conference Hall, Shillong	NEEPCO
17 <sup>th</sup> CCM	28.11.2011	Hotel Mayfair, Darjeeling	NHPC
18 <sup>th</sup> CCM	14.03.2012	Sonapur, Assam	PGCIL
19 <sup>th</sup> CCM	26.02.2013	Hotel Grand Star Line, Guwahati	APDCL, APGCL, AEGCL
20 <sup>th</sup> CCM	May, 2013	-	NTPC
21 <sup>st</sup> CCM	August, 2013	-	Dept. of Power, Govt. of Manipur
22 <sup>nd</sup> CCM	November, 2013	-	OTPC
23 <sup>rd</sup> CCM	Feb, 2014	-	MeECL
24 <sup>th</sup> CCM	May, 2014	-	NEEPCO
25 <sup>th</sup> CCM	August, 2014	-	Dept. of Power, Govt. of Mizoram
26 <sup>th</sup> CCM	November, 2014	-	NHPC
27 <sup>th</sup> CCM	February, 2015	-	Dept. of Power, Govt. of Nagaland
28 <sup>th</sup> CCM	May, 2015	-	NERTS, PGCIL
29 <sup>th</sup> CCM	August, 2015	-	TSECL
30 <sup>th</sup> CCM	November, 2015	-	NTPC
31 <sup>st</sup> CCM	February, 2016	-	Dept. of Power, Govt. of AP
32 <sup>nd</sup> CCM	May, 2016	-	OTPC

## UNSCHEDULED INTERCHANGE STATUS AS ON

01/02/2013

Amount in Lakhs

NAME OF UTILITY	CUMULATIVE RECEIVABLE UPTO Wk-40 of FY 12-13 (i.e. upto 06.01.13)	CUMULATIVE PAYABLE UPTO Wk-40 of FY 12-13 (i.e. upto 06.01.13)	UI AMOUNT RECEIVED FROM THE POOL (by NER Const. till Wk-14(part) & by ER till Wk-32 of 12-13)	UI SURPLUS AMOUNT RECEIVED FROM POOL	TOTAL AMOUNT RECEIVED FROM POOL INCLUDING DIFFERENTIAL	UI AMOUNT PAID TO THE POOL	Additional UI Charge payable to pool from Week-01 of 2009-10 till Wk-40 of 2012-13 (upto 06.01.12)	ADDITIONAL UI CHARGE PAID TO POOL	BALANCE UI INCL. ADDITIONAL UI CHARGE PAYABLE TO POOL	BALANCE UI RECEIVABLE FROM POOL AFTER SETTLEMENT OF DIFFERENTIAL
	(1)	(2)	(3)	(4)	(5)=(3)+(4)	(6)	(7)	(8)	9=(2+7- 6- 8)	10 = (1 - 5)
AP	1156.87055	1283.65751	1142.99836	13.87220	1156.87055	1167.77492	455.46594	451.50112	119.84741	0.00000
ASSAM	1303.30836	65.31051	979.41464	323.89372	1303.30836	79.77290	1025.77045	1025.77788	-14.46983	0.00000
MANIPUR	1826.08873	281.99718	1683.22402	142.86470	1826.08873	170.39076	231.46326	227.29110	115.77858	0.00000
MEGHALAYA	1268.30656	4687.60962	1196.23685	72.06971	1268.30656	4664.23942	408.69426	408.69426	23.37020	0.00000
MIZORAM	765.46531	257.54406	754.18162	11.28369	765.46531	0.00000	283.89945	182.03261	359.41090	0.00000
NAGALAND	330.67958	568.79324	313.57805	0.00000	313.57805	400.79726	817.75325	361.59980	624.14944	17.10153
TRIPURA	1159.98255	90.36353	951.26786	215.72280	1166.99065	90.36353	307.91917	307.91917	0.00000	-7.00810
NHPC	355.73273	4.11575	302.85521	52.87752	355.73273	4.11575	0.00000	0.00000	0.00000	0.00000
NEEPCO	1242.92754	39.63331	1058.80009	184.12745	1242.92754	39.63326	66.58892	66.53657	0.05239	0.00000
ER	462.4892	4078.86017	0.00000	223.89245	223.89245	1765.4689	0.00000	0.0000	2313.39128	238.59682
OTPC	688.6258	0.00000	0.00000	688.62578	688.62578	0.0000	0.00000	0.0000	0.00000	0.00000
Pool Differential	797.4080	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1929.2300
<b>TOTAL</b>	<b>11357.8849</b>	<b>11357.8849</b>	<b>8382.5567</b>	<b>1929.2300</b>	<b>10311.7867</b>	<b>8382.5567</b>	<b>3597.5547</b>	<b>3031.3525</b>	<b>3541.530</b>	<b>2177.9203</b>

<b>UI Billed:</b>	2003-04	7037.755	Lacs.	2004-05	21942.294	Lacs.	2005-06	14511.463	Lacs.
	2006-07	21623.292	Lacs.	2007-08	49485.132	Lacs.	2008-09	51278.893	Lacs.
	2009-10	25101.930	Lacs.	2010-11	22289.951	Lacs.	2011-12	26183.912	Lacs.

Note:- 1. UI Payable and UI Receivable by each utility as on 28.03.11 have been used as opening balance of current FY 2011-12.

Col. 1 & 2 show opening balance plus UI payable/receivable till date. The statement includes ER settlement since Wk-14

2. Differential amount started from Wk-41 of 2007-08 (07.01.08 - 13.01.08). Differential figure in Col.1 indicates amount w.e.f Wk-14 of 2011-12

3. Difference between Col. 3 and Col. 6 is ₹ 0.00000 Lacs is equal to pool differential amt. realised during 2011-12( From Week-11)

4. Total pool differential amount as per bill till Wk-40 (31.12.12 - 06.01.13) :

₹ 6794.76428 Lacs A

5. Total pool differential amount realised till date

₹ 6529.54089 Lacs B

6. Total pool differential amount disbursed till date

₹ 745.22108 Lacs C

7. Total pool differential amount in bank as on date (5 - 6)

₹ 5754.51050 Lacs D

8. Total Addl. UI amount as per bill till Wk-40 (31.12.12 - 06.01.13) :

₹ 3597.55470 Lacs E

9. Total Additional UI charges realized:

₹ 3031.35251 Lacs F

10. Total Addl. UI amount disbursed till date

₹ 1027.85505 Lacs G

11. Total Addl. amount in bank as on date (9 - 10)

₹ 2003.49746 Lacs H

12. UI interest amount collected

₹ 767.03163 Lacs I

13. UI interest amount disbursed to NER constituents

₹ 170.72252 Lacs J

14. RTGS charge deducted by Bank from UI capping A/C

₹ 0.01996 Lacs K

15. Balance amount transferred to PSDF (excluding bank interest)

₹ 8354.29711 Lacs L

16. Amount with NERLDC

₹ 0.00000 Lacs

(₹ 8485.29792 /- including bank in

( D + H + I - J - K - L)

17. Pool differential in Col.1 indicates ISGS capping amount since Week-11 of 2011-12. The capping amount of Week-01 to Week-10 (₹ 221.36389 lakhs)

is included in opening balance as same was settled during 2010-11.

566.20219 265.22338 831.42557

Total pool balance amount ₹ 0.00000 Lacs

SBI 0.00000 Lacs