



भारत सरकार Government of India

विद्युत मंत्रालय Ministry of Power

उत्तर पूर्वी क्षेत्रीय विद्युत समिति

North Eastern Regional Power Committee

एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय

NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya



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No.: NERPC/COM/CC_Min/2016/3124-64

Dated: 19th September 2017

To

1. Director (Distribution), MePDCL, Lumjingshai, Short Round Road, Shillong – 793 001
2. Director (Transmission), MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
3. Director (Generation), MePGCL, Lumjingshai, Short Round Road, Shillong – 793 001
4. Engineer-in-Chief (P&ED), Govt. of Mizoram, New Secretariat Complex, Khatla, Aizawl – 796 001
5. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
6. Chief Engineer (EE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
7. MD, APDCL, Bijuli Bhawan, Paltan Bazar, Guwahati-781 001
8. MD, AEGCL, Bijuli Bhawan, Paltan Bazar, Guwahati-781 001
9. MD, APGCL, Bijuli Bhawan, Paltan Bazar, Guwahati-781 001
10. MD, MSPDCL, Secure Office Building Complex, 3rd Floor, South Block, Near 2nd MR Gate, Imphal – 795 001
11. MD, MSPCL, Keishampat, Imphal – 795 001
12. Chief Engineer (P&E), Department of Power, Govt. of Nagaland, Kohima – 797 001
13. Director (Tech), TSECL, Banamalipur, Agartala – 799 001
14. Director (Tech), TPGL, Banamalipur, Agartala – 799 001
15. ED, NERTS, PGCIL, Dongtieh-Lower Nongrah, Lapalang, Shillong -793 006
16. GM (LD&C), PGCIL, "Saudamini" Plot No. 2, Sector – 29, Gurgaon, Haryana – 122 001
17. General Manager, NERLDC, Dongtieh-Lower Nongrah, Lapalang, Shillong -793 006
18. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
19. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
20. ED (Commercial), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
21. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
22. GM (Comm), NTPC Limited, ER-II HQ, Plot No. N-17/2, Third Floor, Naya Palli, Bhubaneswar-751012
23. Group GM, NTPC Limited, Bongaigaon Thermal Power Project, P.O. Salakati, Kokrajhar-783369
24. MD, OTPC, 6th Floor, A Wing, IFCI Tower-61, Nehru Place, New Delhi-110019
25. Vice President, PTCIL, 2nd Floor, NBCC Tower, 15, Bhikaji Cama Place, New Delhi - 110066
26. AGM (BD), NVVN, Core 5, 3rd floor, Scope Complex, 7 Institutional Area, Lodhi Rd., N. Delhi-3
27. Member Secretary, ERPC, 14 Golf Club Road, Tollygunge, Kolkata-700033
28. Chief Engineer, GM Division, CEA, Sewa Bhawan, R.K. Puram, New Delhi – 110066

Sub: Minutes of the 33rd CC meeting held on 25/08/2017 at "Spring Valley Resort, Sonapur, Assam.

Please find enclosed herewith the minutes of the 33rd Commercial Committee Meeting held at "Spring Valley Resort, Sonapur, Assam on 25th August 2017 for your kind information and further necessary action.

Encl.: As above

भवदीय / Yours faithfully,

लिं गखोइ / B. Lyngkhai)

निदेशक / Director/S.E (Comm)

Copy To:

1. SA to Member(GO&D), CEA, Sewa Bhawan, R.K. Puram, New Delhi – 110066
2. CGM (Comml), APDCL, Bijuli Bhawan, Paltan Bazar, Guwahati-781 001
3. Head of SLDC, SLDC Complex, AEGCL, Kahilipara, Guwahati - 781019
4. SE (EM), MePDCL, Lumjingshai, Short Round Road, Shillong – 793 001
5. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
6. Head of SLDC, Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791 111
7. ED (Comml), MSPDCL, Secure Office Building Complex, 3rd Floor, South Block, Near 2nd MR Gate, Imphal – 01
8. ED (Tech), MSPDCL, Secure Office Building Complex, 3rd Floor, South Block, Near 2nd MR Gate, Imphal – 01
9. ED (Tech), MSPCL, Keishampat, Imphal – 795 001
10. S.E. (Commercial), Department of Power, Govt. of Mizoram, Khatla, Aizawl – 796 001
11. Head of SLDC, Department of Power, Govt. of Mizoram, Aizawl – 796 001
12. A.C.E. (Gen & Trans), Department of Power, Govt. of Nagaland, Kohima – 797 001
13. Head of SLDC, Department of Power, Dimapur, Nagaland
14. AGM (C&SO), TSECL, Agartala – 799 001
15. Head of SLDC, TSECL, Agartala – 799 001
16. General Manager, Loktak HEP, NHPC Limited, Vidyut Vihar, Komkeirap, P.O. Loktak, Manipur – 795 124
17. GM (Comml), OTPC, 6th Floor, A Wing, IFCI Tower-61, Nehru Place, New Delhi-110019
18. Head of the Plant, OTPC, Palatana, Kakraban, Gomati District, Tripura - 799116
19. AGM (Comml), NTPC Limited, 16th Rupalim Path, Rukhmini Nagar, Guwahati-781022



निदेशक / Director/S.E (Comml)

North Eastern Regional Power Committee

MINUTES OF THE 33rd COMMERCIAL COORDINATION

SUB-COMMITTEE MEETING OF NERPC

Date : 25/08/2017 (Friday)
Time : 10:30 hrs
Venue : Spring Valley Resort, Sonapur, Assam

The 33rd CC Meeting of NERPC was held on 25th August 2017 at Sonapur, Assam, under the aegis of North Eastern Electric Power Corporation Limited (NEEPCO). The list of participants in the 33rd CC meeting is attached at **Annexure – I**. The ppt. presentation by NERLDC on SAMAST and POC Mechanism is attached at **Annexure-II**.

The meeting began with a welcome address by Shri P. C. Barman, GM (Comml), NEEPCO. In his short address, Shri Barman extended a warm welcome to the delegates of the 33rd CCM. He also expressed gratitude to NERPC for giving NEEPCO the opportunity to host the meeting at Sonapur, Assam. NEEPCO presented flower bouquets to senior officers on the dais namely Shri P. K. Mishra (IES), Member Secretary, NERPC, Shri T. S. Singh, Executive Director, NERLDC, Shri B. Lyngkhai (IES), Director (C&O), NERPC, Shri Puru Gupta (IAS), Managing Director, APDCL and Shri Chander Mohan, Executive Director (Comml), NHPC. Thereafter, the senior officers of the forum lighted the ceremonial lamp and also delivered inaugural speeches on the occasion.

Shri B. Lyngkhai, Director (C&O), NERPC remarked that as an institution established by the Govt of India, the forum of NERPC and its Sub Committees have a huge responsibility towards the development of power sector in NE region. He acknowledged and appreciated the presence of senior level officers in the meeting. He also informed that the resolution by NERPC regarding high tariff of Bongaigaon power plant has been signed by all the Hon'ble Power Ministers of NER states and the resolution would now be sent to the Hon'ble Union Power Minister shortly. Shri Lyngkhai mentioned about the contribution of the commercial wing of APDCL in the past many years in CC forum. He requested MD, APDCL to strengthen the commercial wing of APDCL so that Assam, as an important and biggest state in NER, could continue to actively contribute in resolving various commercial issues for the benefit of NER.

Shri Puru Gupta, Managing director, APDCL thanked NERPC and NEEPCO for organizing the meeting at Sonapur, Assam. He stated that Power Sector is a very important sector in day to day life and it is important to provide a reliable and quality

power supply to the people. He also mentioned that Assam has seen a lot of improvement in the power sector since last few months and further stated that the positive trend will continue in future. Shri Gupta appreciated the role of NERPC & NERLDC in maintaining the regional grid of NER and he wished the meeting a grand success.

In his brief speech, Shri T. S. Singh, Executive Director, NERLDC thanked NERPC for conducting CC meetings regularly. He also requested NERPC to facilitate the implementation of SAMAST project by organizing meetings with all NER states for the review and update on the project.

Shri Chander Mohan, Executive Director (Comml), while expressing his appreciation to NERPC for organizing regular CC meetings, requested that TCC/RPC and other subcommittee meetings may also be held regularly so as to keep abreast with the fast changing scenario in the power sector in terms of development of latest technology and new regulations.

Shri P. K. Mishra, Member Secretary & Chairman, Commercial Sub Committee welcomed all the participants of the 33rd CC Meeting. He thanked NEEPCO Limited for agreeing to host the meeting at a short notice. He felicitated and expressed gratitude to NEEPCO for making excellent arrangement for the meeting and for providing comfortable stay for all the delegates. He stated that all officials representing their constituents should come to the meeting with action taken and updates on the issues included in the agenda concerning their organization. Shri Mishra mentioned that the importance of distribution utilities cannot be over emphasized as they can make a difference in the lives of people by providing quality, reliable and affordable power to the consumers. He urged the discoms to fully utilize the advantage of having Hon'ble Power Ministers of NER states as members of NERPC, for improving the efficiency of the distribution sector.

The 33rd CCM observed a minute of silence in honour and prayer for the departed soul of (Late) Shri J. Tato, CE (WEZ), Ar. Pradesh who had passed away recently. The CC forum also took the opportunity to bid farewell to Shri P. K. Singha, Executive Director (Comml), NEEPCO who was retiring in August 2017 on superannuation. The CC forum placed on record the vast contribution of Shri P. K. Singha, ED, NEEPCO towards various forum of NERPC. As a mark of respect and token of love, CC forum presented a memento and flower bouquets to Shri P. K. Singha.

The cultural programme arranged by NEEPCO in the evening of 25th August 2017 was highly appreciated by the participants.

The following are the agenda and the decisions taken in the 33rd Commercial Committee meeting:

CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF THE 32nd COMMERCIAL SUB-COMMITTEE MEETING OF NERPC.

Director/SE (C) informed that the minutes of the 32nd CC Meeting held at "Toshali Sands, Puri", Odisha on the 22nd February 2017 was circulated vide No.: NERPC/COM/CC_Min/2016/4973-5019 dated 15th March 2017.

Since no comments/observations were received from the constituents, the sub-committee confirmed the minutes of 32nd CCM of NERPC.

The Sub-committee noted as above.

AGENDA ITEMS

2. AGENDA ITEMS FROM NERPC:

2.1 *Board Fund Contribution for FY 2017-18::*

NERPC has requested all the constituents of NERPC for depositing the Board Fund contribution for Financial Year 2017-18 to designated Account No. of Member Secretary, NERPC vide NERPC letter No.NERPC/SE(O)/Committee/Board Fund/2015/ dated 18.08.2017. As per decision of the 17th TCC/RPC meeting, annual contribution towards board fund of NERPC w.e.f FY 2016-17 is Rs 1, 00,000/- for states and Rs 4, 00,000/- for CPSUs.

All constituents are requested to kindly deposit respective amount for FY 2017-18 at the earliest.

Ar. Pradesh has not contributed yet for FY 2016-17 also. Ar. Pradesh is requested to make payment for FY 2016-17 & 2017-18 at the earliest.

Deliberation of the Sub-Committee

All the constituents agreed to pay their respective amount by September 2017. Ar, Pradesh representative assured that they will be paying for both FY 2016-17 & FY 2017-18 by September 2017.

The Sub-committee noted as above.

Action: All constituents.

2.2 Contribution for NERPC App and CDAC Real Time Energy Assessment Project:

Letter for contribution of fund towards design & development of NERPC Mobile App etc was sent to all constituents vide NERPC letter No. NERPC/ SE(O)/Committee/Board Fund/2015/3751-3764 dt. 13/01/2017. CPSUs are to contribute Rs 8 lacs each whereas states & traders are to contribute Rs 1.1 Lacs each. All CPSUs, traders, states of Meghalaya, Mizoram & Tripura have contributed towards NERPC Mobile App.

Further, the request letter for contribution of fund towards CDAC Real Time Energy Assessment project was sent to all concerned states namely, Ar. Pradesh, Assam, Manipur, Mizoram, Nagaland & Tripura. All the 6 beneficiary states are to pay an amount of Rs 7 Lacs each for the project. This project is meant for the above 6 states only.

The status of payment towards Mobile App & CDAC project is as given below:

SI No.	Constituents	Payment status	
		NERPC Mobile App (Rs 1.1 Lacs)	CDAC Project (Rs 7 Lacs)
1	Ar. Pradesh	<i>DUE</i>	<i>DUE</i>
2	Assam	<i>DUE</i>	Payment Received
3	Manipur	<i>DUE</i>	<i>DUE</i>
4	Meghalaya	Payment Received	-not applicable-
5	Mizoram	Payment Received	Payment Received
6	Nagaland	<i>DUE</i>	Payment Received
7	Tripura	Payment Received	Payment Received

Concerned states above are requested to kindly make payment as indicated at the earliest.

Deliberation of the Sub-Committee

Manipur, Assam & Ar. Pradesh informed that their respective amount will be paid by September 2017.

The Sub-committee noted as above.

Action: All above concern utilities.

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

Concerned utilities are to submit the required information in the format given below.

Financial Year : e.g. 2015 - 2016										
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 DSM 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)			

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

Presently, NTPC is regulating Power to MeECL wef 03.03.2017. NTPC is required to furnish details as above.

Deliberation of the Sub-Committee

NTPC informed that the required data will be submitted to NERPC Secretariat immediately.

The Sub-committee noted as above. NERPC Secretariat may circulate the submitted data in the next meeting for kind information to CC members.

2.4 Roster for Host of the Commercial Subcommittee Meeting of NERPC.

As per Conduct of Business Rule, the Commercial Sub Committee Meeting is being held on quarterly basis. The meeting is held both within NER and outside NER depending upon the feasibility and convenience of the host and also to encourage more participation from delegates/constituents. From 14th CCM till 32nd CCM, all CPSUs have hosted twice and all the states have hosted once (2 nos. meetings were conducted by NERPC without specific host) during the period from November 2010 to February 2017. Fresh roster has now been prepared for hosting of CCM. The same may please be approved.

Deliberation of the Sub-Committee

After brief discussion, it was decided that CC meeting will be hosted by constituents on rotation basis as per roster which will be prepared for two-financial year at a time. The following roster in respect of the financial year 2017-18 & 2018-19 has been approved in the meeting including the 33rd CCM which is hosted by NEEPCO:

Sl. No.	CCM	Host	Month (Indicative)
1	33 rd	NEEPCO	August 2017
2	34 th	NVVN	October 2017/November 2017
3	35 th	Assam	December 2017/January 2018
4	36 th	Ar. Pradesh	February/March 2018
5	37 th	PTC	May/June 2018
6	38 th	Manipur	August/September 2018
7	39 th	MeECL	November/December 2018
8	40 th	NHPC	February/March 2019

The Forum decided that the above roster should be strictly adhered to so that regular meeting could be held as per plan. The forum further agreed that all constituents would be given equal no. of opportunity to host the CC meeting and the same is to be taken into consideration while preparing the roster for next two financial years.

3. AGENDA ITEMS FROM NHPC**3.1 Signing of PPA:****(i) Signing of Power Purchase Agreement (PPA) in respect of Subansiri Lower HE Project (2000 MW) in Arunachal Pradesh :-**

Signing of PPA with Deptt. of Power, Govt. of Arunachal Pradesh in respect of Subansiri Lower H.E Project is pending since long. Modification sought by Arunachal Pradesh in PPA has already been agreed & conveyed vide this office letter dated 10.11.2016. The issue was also raised in 32nd CCM of NERPC held on 22.02.2017. Thereafter, we have sent various reminders on 04.05.2017, 19.05.2017, 13.06.2017, 29.06.2017, 19.07.2017 & 10.08.2017. Even ED (Comml.), NHPC visited Arunachal Pradesh on 29/30 May, 2017 specific on this purpose but we have not received any assurance from Arunachal Pradesh.

In view of above, Deptt. of Power, Govt. of Arunachal Pradesh is requested to give their consent at the earliest please. PPA of Tawang - I & II will also be signed on similar lines.

Deliberation of the Sub-Committee

Ar. Pradesh representative informed that the power department is awaiting the clearance from the state government. Once the file is approved by the government, the department will sign the standard PPA. He also informed that Ar. Pradesh has not received copy of the PPA in respect of Tawang HEP.

NHPC was advised to send PPA of Tawang HEP to Ar. Pradesh.

Ar. Pradesh and NHPC were advised to expedite for early resolution of the issue.

Action: NHPC & Ar. Pradesh.

(ii) Signing of Power Purchase Agreement (PPA) in respect of Tawang HE Project, Stage – I & II with MSPDCL:-

Signing of PPA in respect of Tawang H.E Project, Stage-I & II is pending with Manipur & Arunachal Pradesh. The matter was also discussed in 32nd CCM of NERPC held on 22.02.2017 in which representative of MSPDCL informed that matter has been put up to the Electricity Deptt., Govt. of Manipur & also assured that matter shall be taken up again with the Government after the assembly election in March, 2017.

In this regard, it is informed that after 32nd CCM of NERPC, we have sent various reminders on 18.04.2017, 22.05.2017, 13.06.2017, 29.06.2017, 19.07.2017 & 10.08.2017 but till date, we have not received any reply/response from MSPDCL.

In view of above, MSPDCL, Manipur is requested to give their consent for signing of PPA at the earliest please.

Deliberation of the Sub-Committee

MSPDCL representative assured that he would pursue with competent authority to sign the PPA in respect of Tawang-I & II project before the next CC meeting.

The Sub-committee noted as above.

Action: Manipur

3.2 Outstanding dues of NHPC for more than 60 days:

(i) MeECL, Meghalaya: - MeECL assured vide their letter dated 31.01.2017 that Principal outstanding of NHPC will be cleared in installment latest by August, 2017. But till date, we have received only Rs 5.5 Crores against principal outstanding dues of Rs 21.53 Crores. As on date, an amount of **Rs 28.33 Crs** (Including surcharge of **Rs 12.30 Crs** up to 31.07.2017) is payable by Meghalaya. The matter was also discussed in 32nd

CCM of NERPC. After that, we have requested MeECL vide letter dated 31.03.2017, 18.04.2017, 04.05.2017, 18.05.2017, 01.06.2017, 19.06.2017, 29.06.2017, 12.07.2017, 25.07.2017 & 10.08.2017 to release the outstanding dues of NHPC as per their commitment but MeECL has not fulfilled its commitment.

During the recent meeting called by Joint Secretary (Hydro), Ministry of Power, Govt. of India on 04.08.2017, representative of Meghalaya assured that they will release 50% of their dues of NHPC in the month of August, 2017.

In view of above, Meghalaya is requested to release at least 50% dues of NHPC as per commitment of Meghalaya in August, 2017.

Deliberation of the Sub-Committee

Meghalaya representative informed that MeECL is making best effort to minimize their outstanding dues. The issue of outstanding dues is being pursued rigorously with concerned authorities including accounts department of MeECL.

Member Secretary NERPC requested all concerned beneficiaries to clear outstanding dues in timely manner in order to avoid surcharges. NHPC was advised to meet with MeECL officials in Shillong to find possible solution to the issue of the outstanding dues at the earliest.

Sub-committee noted as above.

Action: Meghalaya

(ii) MSPDCL, Manipur: - An amount of **Rs 21.99 Crores** (including surcharge of **Rs 1.03 Crores** up to 31.07.2017) is due for payment from MSPDCL. Out of which principal amount of **Rs 7.04 Crores** is outstanding for more than 60 days. It is observed that MSPDCL is continuously defaulting in timely payment of energy bills since November, 2016 due to which late payment surcharge is increasing continuously which is also payable as per regulation.

In view of above, MSPDCL is requested to clear their outstanding dues of more than 60 days including surcharge i.e. Rs 8.07 Crores immediately and ensure timely payment of energy bills in future.

Deliberation of the Sub-Committee

Representative of MSPDCL informed that all 60 days dues would be paid shortly.

The Sub-committee noted as above.

Action: MSPDCL

(iii) Power & Electricity Department, Govt. of Mizoram: - An amount of Rs **2.77** Crores (including surcharge of **Rs 23,430/-** up to 31.07.2017) is due for payment from Mizoram. Out of which principal amount of **Rs 47,29,383/-** is outstanding for more than 60 days.

In view of above, Power & Electricity Deptt. Govt. of Mizoram is requested to clear their outstanding dues of more than 60 days including surcharge i.e. Rs 47,52,813/- immediately and ensure timely payment of energy bills in future.

Deliberation of the Sub-Committee

Representative of Mizoram informed that they will take immediate action for payment of all 60 days dues against NHPC.

The Sub-committee noted as above.

Action: Mizoram

3.3 Opening/maintaining of Letter of Credit (LC):

In spite of our regular follow up, Arunachal Pradesh, Manipur & Mizoram has not provided LC of requisite amount till date. The matter was also discussed in 32nd CCM of NERPC held on 22.02.2017 and it was requested from all the beneficiaries of Loktak Power Station to open LC of requisite amount up the period 31.03.2018. Existing LC has already expired. Details of LC's are as under:-

Name of beneficiary	Requisite amount	Validity already expired on
Arunachal Pradesh	Rs 0.84 Crs	31.03.2016
Manipur	Rs 5.23 Crs	15.09.2016
Mizoram	Rs 0.86 Crs	24.03.2017

So, Deptt. of Power, Govt. of Arunachal Pradesh, MSPDCL, Manipur and Power & Electricity Deptt., Govt. of Mizoram are requested to pursue with your bank and provide "Letter of Credit" of requisite amount on priority.

Deliberation of the Sub-Committee

Beneficiaries agreed to take immediate action as given below:

Sl. No.	Beneficiaries	Status/Action taken
1	Manipur	MSPDCL will take immediate action for opening of requisite amount of LC by September 2017
2	Ar. Pradesh	Ar. Pradesh will take immediate action for opening of requisite amount of LC by September 2017.
3	Mizoram	Mizoram will take immediate action for opening of requisite amount of LC by September 2017.

The Sub-committee noted as above.

Action: Manipur, Ar. Pradesh & Mizoram

4. AGENDA ITEMS FROM NERTS/POWERGRID:**4.1 Outstanding dues:**

The total outstanding of POWERGID's NER beneficiaries as on 16.08.2017 is as under:

All Figures in INR Crores

DIC	Total Outstanding	Outstanding more than 60 days	Average billing	Remarks
Ar. Pradesh	3.11	0.00	3.45	-
AEGCL (Assam)	66.90	0.00	37.00	-
Manipur	14.46	7.31	3.75	04 months receivables
MeECL (Meghalaya)	18.51	7.01	6.30	03 months receivables
Mizoram	4.90	-	3.80	-
Nagaland	-0.03	0.00	2.85	-
TSECL (Tripura)	0.31	0.20	3.50	-
Total	108.16	14.52	60.65	-

MSPDCL (Manipur), MeECL (Meghalaya) may be impressed upon to liquidate their respective outstanding dues immediately.

Deliberation of the Sub-Committee

All beneficiaries concerned were requested to pay their outstanding dues at the earliest.

Action: All above concerned DICs & PGCIL

4.2 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:

REQUIREMENT AND STATUS OF LC AS ON DATE (16.08.17) OF NER BENEFICIARIES
(All Figures in Rs Lakh)

Sl	Beneficiary	Required LC Amount	Due date of enhancement and renewal (for one year)	Total LC Amount to be renewed including enhanced value		
				Existing	Enhancement	Total
1	Ar. Pradesh	321.46	31.03.16	252.00	69.46	321.46
2	AEGCL (Assam)	4217.83	31.05.18	3217.89	999.94	4217.83
3	Manipur	393.05	15.09.16	213.13	179.92	393.05
4	MeECL	700.00	04.10.17	300.00	400.00	700.00
5	Mizoram	400.94	04.05.17	269.59	131.36	400.94
6	Nagaland	437.73	21.03.18	459.62	-	437.73
7	Tripura	416.86	14.02.18	271.00	145.86	416.86

- DICs are requested to renew & enhanced the LC as per requirement.
- **AEGCL, MeECL** may be impressed upon to enhance LC of requisite amount immediately.
- **Arunachal Pradesh, Manipur, Mizoram** may be impressed upon to renew as well as enhance the LC as per requirement immediately.

Deliberation of the Sub-Committee

The following action plan was reported:

Sl. No.	States	Status/Action to be taken
1	Ar. Pradesh	Ar. Pradesh will renew & also enhance LC of requisite amount by Oct'17
2	Assam	APDCL will enhance the LC of requisite amount by Oct'17
3	Manipur	MSPDCL will put in place enhanced LC of requisite amount by Oct'17
4	MeECL	The MeECL representative will take up with concerned authority to enhance the LC of requisite amount by Oct'17
5	Mizoram	Mizoram will put in place enhanced LC of requisite amount by Oct'17
6	Tripura	Tripura will enhance the requisite amount of LC by Oct'17

Action: All above concerned beneficiaries

5. AGENDA ITEMS FROM OTPC:

5.1 Outstanding Dues of OTPC against NER beneficiaries

The current total outstanding dues of OTPC against the NER beneficiary states (as on 17-08-2017) are as under:

(Amount in Rs Crores)

Sl. No.	Beneficiary	Outstanding Dues including Supplementary Bill (>60 Days)	Total Outstanding including Supplementary Bill
1	Arunachal Pradesh	0.00	3.33
2	Assam	72.82	146.02
3	Manipur	20.87	33.95
4	Meghalaya	47.51	70.24
5	Mizoram	7.37	13.99
6	Nagaland	3.46	3.46
7	Tripura	111.24	170.98
	Total	263.27	441.98

The total outstanding dues as on 17-08-2017 are Rs 441.98 Crores out of which outstanding beyond 60 days is Rs 263.27 Crores. Constituents are requested to clear at least the outstanding dues over 60 days, at the earliest.

Deliberation of the Sub-Committee

GM (Commercial), OTPC raised concern about huge outstanding dues of the beneficiary states and requested NERPC to take up the matter urgently with all the beneficiaries. He stated that by clearing energy bills in timely manner, the beneficiary states could minimise expenditure against energy bills by reaping the benefit of (i) rebate on timely payment and (ii) avoidance of late payment surcharge (which is 18% annually). He also suggested that even borrowing from Financial Institutions for timely payment of energy bills would be cheaper than the surcharge payable due to late payment of bills.

Director/SE, NERPC urged all beneficiary states to prepare cost benefit analysis and sensitize their Finance Department on the benefit of timely payment of energy bills as suggested by OTPC.

Action: All beneficiaries.

5.2 Status of Payment Security Mechanism of the beneficiaries required against monthly energy billing as per Power Purchase Agreement and CERC regulations

Sl. No.	Beneficiary	Letter of Credit (LC) required as per PPA (Rs Crore)	LC amount status (Rs Crore)	Valid Upto	Remarks
1	Arunachal Pradesh	11.62	11.62	31-Mar-2016	Kindly renew the LC and park sufficient funds with bank for LC
2	Assam	40	40	28-Apr-2018	LC is in place
3	Manipur	15.02	3.7	15-Sept-2016	Kindly renew the LC
4	Meghalaya	29.78	-	-	Meghalaya has never provided the LC even after continuous persuasion
5	Mizoram	7.5	7.5	6-May-2017	Kindly renew the LC
6	Nagaland	9.46	9.46	20-Mar-2018	LC is in place
7	Tripura	46.53	18	19-Mar-2018	LC is in place

Beneficiaries are requested to enhance and renew the LC amount as per the PPA at the earliest.

Deliberation of the Sub-Committee

All concerned DICs were requested to renew/enhance the LC of requisite amount as per CERC regulations.

Action: All concerned DICs as above.

6. AGENDA ITEMS FROM NTPC

6.1 All NER States have signed the TPA except Tripura. Hence Tripura is requested to sign the TPA at the earliest.

Deliberation of the Sub-Committee

Director/SE, NERPC informed that NERPC was to discuss the issue of TPA with senior officials of Tripura Government, however due to preoccupation of NERPC officers the meeting with Tripura officials could not be materialized. Hence the matter will now be put up to the 18th TCC & RPC meeting which is likely to be held in October 2017 and if necessary, the NERPC forum will further take up with the government of Tripura.

The Sub-committee noted as above.

Action: NTPC & NERPC

7. AGENDA FROM NEEPCO

7.1 *Outstanding dues of beneficiaries' payable to NEEPCO as on 17.08.2017 are as follows:*

(Rs. in Crore)

Beneficiary	Principal dues	Late payment surcharge as on 30.09.2016	Total Dues	Principal Dues pending for more than 60 days
APDCL, Assam	222.36	64.50	286.86	110.46
P&E Deptt, Mizoram	9.95	17.33	27.28	-4.51
MSPDCL, Manipur	39.69	3.54	43.23	10.11
TSECL, Tripura	13.17	24.94	38.11	2.29
DOP, Arunachal Pradesh	15.83	4.79	20.62	7.8
DOP, Nagaland	0	0	0	0
MeECL, Meghalaya	139.58	273.59	413.17	97.32
Total	440.58	388.70	829.28	223.47

While many of the beneficiaries have cleared their old dues and are paying the current dues regularly, however the status of MePDCL and APDCL is alarming.

Due to accrual of such outstanding dues, NEEPCO is facing difficulty to meet its day to day expenditure including fuel cost required for operating its thermal power stations. In the interest of extending better service to its beneficiaries, NEEPCO earnestly requests all the beneficiaries to clear all the accumulated dues on priority and at the same time requests to make the payment against current bills on regular basis.

Deliberation of the Sub-Committee

DGM (Comml), NEEPCO was pleased to inform that their collection of energy bills has improved as beneficiaries were paying their current dues regularly and old outstanding dues were also being paid. He however informed that the outstanding dues of MeECL and APDCL are alarming. He requested all beneficiaries to kindly make regular payment towards current bills and also clear all accumulated dues on priority.

All the concerned beneficiaries were requested to make regular payment against outstanding dues of NEEPCO so as to avoid huge accumulation of surcharge and alarming status of total outstanding dues.

Action: All concerned beneficiaries

7.2 Signing of PPA for Kameng Hydro Electric Project (KaHEP)

Kameng HEP(600MW) is scheduled to be commissioned in January'2018. Assam, Arunachal Pradesh and Nagaland have already signed the PPA; however, remaining NER states are yet to give their consent for signing of the same.

Draft PPAs along with salient features of the project including estimated cost, first year tariff, levellized tariff etc. were sent to all beneficiaries of the project of NE region. The urgency of the matter was also discussed in last CC meeting (i.e 32nd CCM) held on 22.02.2017 at Puri, Odisha as well as in the 17th TCC meeting held at Imphal, Manipur in October'2016.

Reminders on the matter were also sent to all the above mentioned beneficiaries of NE region; however, no response has yet been received Meghalaya, Manipur, Tripura and Mizoram.

NER Beneficiaries of the project, those who are yet to signed the PPA are requested to kindly expedite the execution of the PPAs in order to finalized the commercial aspects at the earliest to facilitate further subsequent action by NEEPCO.

Deliberation of the Sub-Committee

Director/SE, NERPC stated that all effort should be made to resolve the issue of PPA of Kameng HEP by October 2017. The concerned departments/utilities should expedite for signing of the proposed PPA and in case any particular state is not willing to be the beneficiary of the project, the same should be communicated to NEEPCO and Ministry of Power at the earliest so that necessary action can be taken up by NEEPCO.

The forum decided that the matter will be reviewed in the next CCM.

Action: NEEPCO & All concerned beneficiaries

7.3 Submission of payment release intimation by the beneficiaries:

NEEPCO requires the immediate information from its beneficiaries regarding the payments released by them and bill references there-of for early updation of its accounts (payment adjustment against energy/surcharge bill). In addition, such details are required for allowing admissible rebate to the beneficiaries. The matter was discussed in detail in earlier 2/3 CC meetings; but still most of the beneficiaries while making any payment do not give any intimation to NEEPCO.

NEEPCO earnestly requested to all NER beneficiaries to develop a mechanism from their end, so that payment release intimation can be forwarded immediately.

Deliberation of the Sub-Committee

Representatives of the beneficiary utilities agreed that the details of payment made towards bills of NEEPCO will be intimated to NEEPCO as requested.

The CC forum appreciated the difficulty faced by NEEPCO and other billers. The subcommittee advised all beneficiaries to make sure that at the time of payment itself, the detail of payment with respect to bills etc should be intimated immediately for easier reconciliation.

The subcommittee noted.

Action: All beneficiaries

8. AGENDA ITEMS FROM NERLDC:

8.1 Deviation charges outstanding:

Status of Deviation charges outstanding as on 17/08/2017 is attached (**Annexure-8.1**). From the same it can be seen that Assam - **Rs 25.90 Crores** & Arunachal Pradesh (**Rs 2.77 Crores** ; greater than 13 weeks **Rs 1.58 Crores**) are major defaulters.

It is reiterated that outstanding >13 weeks may result in action as stipulated by CERC by not allowing open access.

Assam & Arunachal Pradesh are required to take immediate necessary action.

Deliberation of the Sub-Committee

NERLDC representative stressed that weekly deviation charges should be paid on regular basis. It was reiterated that outstanding more than 13 weeks may result in action as stipulated by CERC by not allowing open access.

Assam and Ar. Pradesh representatives agreed to look into the matter and liquidate the outstanding dues.

Action: All concerned beneficiaries.

8.2 **Reactive Charges Outstanding:**

Status of Reactive charges outstanding as on 11/08/2017 is attached (**Annexure-8.2**). From the same it can be seen that Ar. Pradesh - ▪ 22.05 Lakhs, Manipur - ▪ 3.57 Lakhs and Mizoram - ▪ 7.03 Lakhs are major defaulters.

Arunachal Pradesh, Manipur & Mizoram are required to take immediate necessary action.

Deliberation of the Sub-Committee

Representatives of Arunachal Pradesh, Manipur & Mizoram agreed to clear the outstanding Reactive Charges.

Action: All above concerned beneficiaries.

8.3 **Opening of LC against Deviation Charges Liability:**

As per DSM charges and related matters Regulations, 2014 of CERC, following are the LC amounts pertaining to NER entities mentioned below:-

Constituents	LC Amount Rs (in Lakhs)
Ar. Pradesh	95.81
Assam	562.00
Manipur	42.13
Tripura	190.00

Till date only Meghalaya, Nagaland and Mizoram have opened LC.

It is requested to open LC to adhere to CERC stipulation.

Deliberation of the Sub-Committee

NERLDC requested representatives of Ar. Pradesh, Assam, Manipur and Tripura to open LC as per DSM charges and related matters Regulations, 2014 of CERC.

Representatives of Ar. Pradesh, Assam, Manipur and Tripura agreed to take necessary action for opening of the requisite LC.

Action: All above concerned beneficiaries.

8.4 **Bank Account details of Arunachal Pradesh**

As per clause 10 (3) of CERC DSM Regulations, 2014," *All payments to the entities entitled to receive any amount on account of charges for Deviation shall be made within 2 working days of receipt of the payments in the "Regional Deviation Pool Account Fund" of the concerned region*".

Accordingly payment is made by NERLDC to receiving entities through RTGS/online transfer. But, in case of Ar. Pradesh, payment is released through account payee

Demand Draft (DD), as bank account details have not been furnished in spite of no. of correspondences.

Ar. Pradesh is requested to furnish bank account details at the earliest.

Deliberation of the Sub-Committee

NERLDC representative intimated that bank account details have been received from Ar. Pradesh.

Action: No further action required.

8.5 SAMAST implementation in NER:

SAMAST stands for SCHEDULING (S), ACCOUNTING (A), METERING (M), AND (A), SETTLEMENT OF (S) TRANSACTIONS (T) IN ELECTRICITY.

Forum of Regulators (FOR) Technical Committee is regularly following-up the status of implementation of SAMAST in all States across the Country. The implementation would include Metering at intra-State level, AMR scheme to fetch data to SLDC, intra-State scheduling, Open Access web portal, Accounting, Settlement system etc. This would pave way for intra-State ABT implementation. The States should proceed with the activities as listed in SAMAST report and apply for PSDF funding.

NERPC and NERLDC would provide support to the States on this. A SAMAST Group has already been formed comprising of NERLDC, NERPC and all States are to join in the Group for implementation of SAMAST. Matter is being reviewed in OCC forum of NERPC.

Deliberation of the Sub-Committee

DGM (MO), NERLDC gave a presentation on SAMAST, copy attached at **Annexure-II**. Regarding SAMAST implementation in NER, all the States were requested to initiate action to prepare DPR and submit for funding from PSDF. It was intimated that action has been initiated in case of Assam and one meeting of SAMAST Group-NER has taken place at AEGCL Office, Guwahati where sequence of activities have been decided. It has also been agreed to go for procurement of 5 minute meters in case of SAMAST in Assam (copy of minutes attached at **Annexure-8.5 (A)**). The letter of Member Secretary, NERPC notifying formation of SAMAST Group of NER is attached at **Annexure-8.5 (B)**. The States other than Assam and Meghalaya were requested to nominate members in SAMAST group.

The Commercial Sub-committee noted as above

Action: All concerned states above

8.6 Metering issues: - Utilisation of Laptop for collection & transmittal of weekly SEM data.

14 Nos of Laptops have been issued to various locations to be utilised for collection/transmittal of SEM data. The locations are Misa, Bongaigaon (NERTS), Azara, Samaguri (AEGCL), Umtru, Mendipather (Meghalaya), 79-tilla (TSECL), Yurembum (Manipur), Ranganadi (NEEPCO), Palatana (OTPC), Loktak (NHPC), BgTPP (NTPC), NERLDC & NERPC.

All the location should utilise Laptop for SEM data collection purpose and confirm utilisation of the same.

Deliberation of the Sub-Committee

All utilities were requested to use Laptops issued to them for collection and transmittal of weekly SEM data.

The Sub-committee noted as above.

8.7 Signing of Reconciliation Statement:

Status of signing of Reconciliation statement of DSM, Reactive, RRAS and Fees & Charges is attached in **Annexure-8.7**. Ar. Pradesh, MSPDC & TSECL has not signed reconciliation Statements for a substantial period.

All constituents are requested to sign all reconciliation statements.

Deliberation of the Sub-Committee

NERLDC representative stated that the Reconciliation statements of DSM, Reactive, RRAS and Fees & Charges are issued on quarterly basis. All the Constituents were requested to sign the reconciliation statements on Regular basis.

All concerned agreed to do the needful.

Action: All concerned constituents

8.8 Tabling quarterly figures of Deviation and Reactive Pool Account in Commercial Committee:

The quarterly figures for April 2017 to June 2017 were circulated 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.

The Sub-committee noted as above.

9. AGENDA FROM DOP, ARUNACHAL PRADESH

9.1 *During a bilateral meeting between APDCL and APDoP on 15/05/17*, APDCL representative said that the power transfer to Arunachal Pradesh through 11 kV and 33 kV lines from Assam is power allocated to Assam and energy accounting is adjusted through UI.

NERPC/NERLDC is requested to highlight the allocation of power transferred to Arunachal Pradesh through 11 kV and 33 kV lines from Assam.

Deliberation of the Sub-Committee

As requested by Ar. Pradesh representative, DGM(MO), NERLDC explained the modality for accounting the power wheeled to Ar. Pradesh by Assam in 33 KV and 11 KV level. After further discussion, the following emerged:

1. Assam is not getting any wheeling charge for wheeling this power to Ar. Pradesh
2. Assam is not getting credit through PoC mechanism also for their 33 KV and 11 KV lines getting utilised for wheeling the Power as lines below 132 KV are not included in PoC.
3. Assam is not getting due credit for transmission & distribution losses. As a compensation towards the transmission & distribution losses, Assam is getting credit of only 3% as per existing mechanism although the actual T&D losses would be much higher than 3%.

Ar. Pradesh representative stated that with the development of 132 KV transmission system in the State, the drawals through 33 KV and 11 KV would be discontinued within one year. He requested Assam to continue with the existing practice for at least one year.

Assam representative stated that the existing system has been causing financial loss to them and they would prefer Ar. Pradesh to be their consumer for drawal through 33 and 11 KV system.

It was decided that a special meeting would be convened to discuss and resolve the issues. In addition to Assam & Ar. Pradesh, NERPC and NERLDC would also be present in the meeting.

The Sub-committee noted as above.

Action: Ar. Pradesh, APDCL, NERPC & NERLDC

9.2 NERPC/NERLDC is also requested to make an arrangement that the power supply through Assam to Arunachal Pradesh is from allocated portion of power to Arunachal

Pradesh and the transmission charges (POC charges) be proportionately shared with Assam.

Deliberation of the Sub-Committee

Discussed in item no. 9.1 above.

10. AGENDA FROM APDCL

10.1 *Review of Point of Connection (POC) Framework:*

The CERC has constituted a Task Force to review the frame work of POC charges so as to align the transmission pricing with future growth strategy of power sector and accordingly advised all stakeholders to submit their views/suggestions/concerns within 11.08.2017. Accordingly APDCL has submitted its comments seeking review of POC charges on the basis of following facts and grounds.

Facts and Grounds:

(a) The present transmission pricing policy that it should be distance, direction and quantum sensitive appears to be true provided all states have necessary adequate resources providing a level playing field for all. Because of all these facts originally the regional grouping was conceived so that all the burdens and benefits are shared on regional basis.

(b) Geographical location and size of a state vis a vis the location and size of a Generating projects have also effect in transmission pricing under the present POC mechanism unlike the pricing policy existed under UCPTT regime when it was shared equally by all regional beneficiaries. Under present system because of availability of two CSGS stations viz. OTPC (726.6 MW) and AGTPP (84 MW) and in Tripura results CTU network usage confined within the state. Similar is the case with Manipur having NHPC (105 MW) commensuration with the need of the state. But because of absence of any generating stations in Mizoram, it is paying transmission charge at the highest slab like Assam. So far Assam is concerned because of POC after third amendment, monthly bills enhanced @ around 63% resulting hike in monthly bill amount of around Rs. 11 Crores. Nevertheless, availability of resources are beyond the control of a state. As such the POC mechanism is in contravention of rules of the natural justice.

(c) As per pre-requisite mandate of Electricity Act, 2003 supply of electricity at a reasonable rate to ultimate consumers is essential for overall development of the country. Keeping this in mind, consistency is needed to be maintained in transmission pricing framework in inter-state and intra-state systems.

(d) Because of availability of fuel or water source projects are coming up in certain states like Arunachal Pradesh and Tripura. Similarly most of the transmission networks meant for evacuation of these surplus power to other states run through the state of

Assam for which Assam has been providing vast areas of fertile land. As Generating Resources and associated transmission networks are integral part so due weight shall also be provided on utilization of land resources for transmission assets in a zone as virtual generation and embed the same in formulae for determination of PoC charge.

(e) The issue was raised by Assam in 15th TCC and Committee Meeting of NERPC dated 20th and 21st August' 2015 respectively expressing its concern about the unbearable financial burden on it. The NERPC Forum has noted the submission of ASSAM and advised it to approach the competent authority viz. CERC in this regard.

(f) Accordingly, Assam Electricity Grid Corporation Limited (AEGCL) and Assam Power Distribution Company Limited (APDCL) jointly approached Hon'ble Commission and filed Petition (No. 239/MP/2015) for needful redressal.

(g) However, vide order dated 30.06.2016; the petition was disposed of by Hon'ble Commission mentioning that there is no requirement of review of the Sharing Regulations and directed the petitioner (APDCL vis-à-vis AEGCL) to pay the dues as per the provisions of the Sharing Regulations as amended from time to time.

Submission:

The Executive Summary Report for the month of June' 2017 issued by CEA depicts that some of the Beneficiaries got entitled to lesser POC rate merely on the basis of situation of CSGS conceived for regional purpose instead of benefiting the region as a whole. Excerpt of CEA Report summarized tabular format is shown below:

State	CSGS Capacity (MW)	Peak Demand (MW)	POC Slab
Assam	1048.82	1744	I
Arunachal Pradesh	405.00	124	V
Manipur	105.00	156	VI
Meghalaya	137.50	272	IV
Mizoram	0.00	82	I
Nagaland	75.00	147	V
Tripura	862.30	268	IX
NER Total	2633.62	2499	

From above it is clear that the new methodology has placed some states like Assam, Mizoram, Meghalaya in a precarious position (highest and higher slabs) so far POC rate is concerned whereas some other states like Tripura, Manipur are allowed the highest benefit of POC mainly because of location of generation projects conceived on regional basis within those states commensuration to their need though they have shares from projects located in other states.

It is clear that the generation within the region from these regional projects set up in a zonal concept with the critical geo-spatial location is more than sufficient to mitigate the demand of entire zone. As such it is obvious that as a zone, NER will fall under the

moderate POC slab than disadvantageous to most of the constituents viz. Assam, Mizoram, Meghalaya at present.

Deliberation of the Sub-Committee

DGM (MO), NERLDC explained the POC Mechanism through a ppt presentation (Presentation is attached at Annexure-II) and during the presentation, probable solutions to the issue of abnormally high PoC charges being paid by some states were deliberated. It was intimated that MOP has taken note of the anomalies in the mechanism and CERC has formed a committee to look into the issues.

After detailed discussion, following broad points were converged:

1. Need for simplification of the method: Present Average Participation (AP)/Marginal Participation (MP) method needs to be simplified as the present methodology is not clear. The detail calculation should be transparent and made available to all the DICs.
2. Major portion of YTC (about 80-85%) should be recovered as uniform charges (may be part of reliability charges) and should be applied to both generation (in case of ISGS, it will be passed on to beneficiaries) and drawal entities.
3. 15-20% may be made sensitive to distance and direction.
4. It was deliberated that in Nordic system where Point of Connection tariff is in place, 15-20 % is variable element which is linked to marginal loss factor at each node which is transparent and scientific based on studies.
5. Tripura representative advocated for National Postage Stamp which might be largely achieved with 80-85% uniform charge.
6. Meghalaya representative pointed out that quarterly variation in charges create a jerk as the States can file petition to SERC only on Annual basis. It was requested to have fixed rate throughout the year and have adjustment bill at the year end.
7. It was felt that HVDC charges should be socialized.

It was agreed that the matter would be discussed in ensuing TCC/NERPC meetings which is likely to be held in October'17. Then the resolution of NERPC would be forwarded by NERPC Secretariat to MOP and CERC.

Director/SE, NERPC informed that all concerned, in the mean time, may furnish their response to the views and comments invited by CERC.

It was also agreed that MS, NERPC would apprise Hon'ble CERC about decisions taken in CCM of NERPC.

The Sub-committee noted as above.

Action: All concerned constituents & NERPC

10.2 Re-import of Kurichhu energy by Bhutan from Assam grid:

This is in the matter of re-import of Kurichhu energy by Bhutan through Assam grid. On the basis of the CERC order dated 30.06.2016 in APDCL Petition No. 239/MP/2015, APDCL raised energy charge bill @ average UI/ DSM rate up to November' 2014.

However beyond November' 2014, APDCL could not raise bill in absence of specific guidelines in the CERC Order. However, with effectuation of stringent DSM Regulation, APDCL was compelled to manage its demand within the permissible bracket so as to avoid overdrawal penalty. To ensure optimum level of drawal from grid in strict adherence to Grid Code, the demand pertaining to **Re-import of Kurichhu energy by Bhutan** was met by procuring from open market viz. through bilateral trading, Energy Exchange etc.

While APDCL raised the issue before ERPC in its 34TH Commercial Committee Meeting dated 06TH February, 2017 and another subsequent meeting in March'2017, ERPC opined that APDCL should continue with the billing system as approved in CERC Forum. However, as submitted above, the DSM liability is minimized by procurement of additional power to ensure compliance of provisions of Grid Code vis-à-vis stringent DSM Regulation. As such, billing in line with CERC order for period beyond November, 2014 will hurt APDCL with additional procurement power at higher rate to mitigate DSM liability the minimum. It will evidently go against the spirit of prudent integrated power management as envisaged for smooth operation of grid.

Under the circumstances, APDCL proposes to allow billing at Market Clearing Price (MCP) derived on Day Ahead Market at Indian Energy Exchange (IEX) for A1 region, being the minimum of rate among procurement on STOA basis by APDCL. Applicable PoC drawal charges alongwith approved losses will also be charged on the energy.

Considering the international ramifications, the matter is placed before NERPC Forum for perusal and needful for amicable settlement of the long pending issue in a time bound manner. Otherwise, APDCL will be compelled to discontinue the energy supply to Bhutan under the present arrangement.

Deliberation of the Sub-Committee

The CC forum noted the genuine concern of Assam. Member Secretary, NERPC informed that another special meeting will be convened with ERPC officials to settle this long pending issue.

Action: APDCL & NERPC

10.3 Bilateral transaction of power in between Assam and Ar. Pradesh (AP):

On the basis of decision taken in the 30TH CC meeting of NERPC on above subject, APDCL had discussed the matter with the Chief Engineer (Power), Western Electrical Zone, AP requesting for bilateral arrangement of all these exchange of power at different points of 33 KV/ 11 KV level.

As a follow-up action, vide its letter dated 16.08.2017 APDCL proposes the following billing arrangements for existing 33 kV and 11kV supply points @ average pool cost of power on the basis of feeder-wise net meter readings along with the transmission and distribution charges & losses of Assam system (over and above the PGCIL system losses) as approved by Assam Electricity Regulatory Commission (AERC) from time to time. Prevailing tariff and losses as approved by AERC are as under:

Item	2017-18
Av. pool Tariff (Rs./kWh)	4.59
Wheeling Charges of APDCL (Rs./kWh)	0.23
Power Grid Network Loss (%)	1.46
AEGCL Network Loss (%)	3.49
APDCL Network Loss (%) at 33 kV	5
APDCL Network Loss (%) at 11 kV	11

Effective Tariff at different voltage level (Rs./kWh)

At 33 kV	5.34
At 11 kV	5.99

Response from AP is requested to give its opinion on this and the Forum decides accordingly.

Deliberation of the Sub-Committee

Discussed in item 9.1 above.

10.4 Deviation in energy as per implemented schedule vis-à-vis Regional Energy Account by RPC:

On matching the quantum of energy recorded in the implemented schedule as uploaded in the POSOCO (NERLDC) website on daily basis and Regional Energy accounting issued by NERPC on monthly basis for ISGS (both NER as well as ER), significant deviation was observed.

Summary statement for FY 2014-15 is detailed below:

(FIGURES IN MU)		FY 2014-15			Deviation as a % of REA energy
Generating Stations		REA	I/ SCH	Deviation	
ALLOCATED CSGS NER	Kopili HEP	285.0808	275.4855	9.5953	3.37%
	Kopili HEP - II	42.2041	40.7748	1.4293	3.39%
	Khandong HEP	48.3387	46.6991	1.6396	3.39%
	RHEP	473.8796	457.8610	16.0186	3.38%
	DHEP	67.9523	65.7127	2.2396	3.30%
	AGBPP	947.7958	915.0680	32.7278	3.45%
	AGTPP	275.1517	265.6608	9.4909	3.45%
	NEEPCO Total	2140.4028	2067.2619	73.1409	3.42%
	NHPC	103.6357	100.1859	3.4498	3.33%
	OTPC	809.3550	780.5126	28.8424	3.56%
	NER GROSS	3053.3936	2947.9604	105.4332	3.45%
UNALLOCATED CSGS ER					
	Farakka	260.8055	1376.6714		
	Kahalgaon I	121.0773			
	Kahalgaon II	509.3470			
	Talcher	129.7310			
	Farakka III	393.8498			
	ER GROSS	1414.8106	1376.6714	38.1391	2.70%

The matter was being pursued by APDCL since 2013-14. In the 27th CCM on 1st December, 2015; it was resolved that NERPC & APDCL will sit together along with NERLDC to clear doubt (if any) in the REA schedules and Implemented schedules.

However, due to various constraints vis-à-vis work force displacements at APDCL, the sitting could not take place.

With due consideration of the above vis-à-vis pendency of the matter, it is placed before CCM for kind perusal and needful to reconcile the difference at the earliest.

Deliberation of the Sub-Committee

Dy. Director/EE (Comml), NERPC clarified that the implemented schedule shown on NERLDC website is the schedule at state periphery (after considering losses etc) whereas the schedule reflected in REA issued by NERPC is at periphery of Power Plant. APDCL was however requested to visit NERPC Secretariat if any further clarification is necessary.

The Sub-committee noted as above.

Action: APDCL

ANY OTHER ITEMS

(A) Additional Agenda Items from NERTS/POWERGRID**(i) Availability certificate of 400 kV D/C Surjyamaninagar (Tripura) - Indo Bangladesh Border Transmission Line**

NERTS/POWERGRID representative informed that the availability certificate of above Indo-Bangladesh Tr line (operated at 132kV) along with associated bays at Surjyamaninagar (TSECL) S/S (Indo-Bangla assets) has not been issued yet from DOCO date. He requested that TAC may be issued by NERPC as no specific authority has been identified for issuance of the TAC.

Deliberation of the Sub-Committee

After brief discussion, it was decided that the necessary data including the tripping records of the above transmission line may be submitted to NERLDC for verification. After the verification of relevant data by NERLDC, NERPC Secretariat will certify the availability certificate of the above line/Asset.

Action: NERTS/POWERGRID**(ii) Signing of Implementation Agreement by NEEPCO for Kameng HEP and matter thereof:**

The Implementation Agreement (IA) is to be signed by POWERGRID & NEEPCO for implementation of commissioning of 400kV D/C Kameng-Balipara T/L and commissioning of Kameng HEP. The same has been signed from our end and forwarded to NEEPCO vide dated 06.07.16. However the same is yet to be signed by NEEPCO. Moreover CERC has issued ROP of hearing dated 11.07.17 of Petition no. 43/TT/2017, where in CERC has directed NEEPCO to submit the status of Generating station on affidavit.

Deliberation of the Sub-Committee

DGM (Comml), NEEPCO intimated that the matter will be expedited.

Action: NEEPCO**(B) Additional Agenda Items from NTPC****(i) Outstanding more than 60 days as on 22.08.2017 is Rs 220.55 Crore.**

Sl. No.	Beneficiaries	Total Outstanding (in Cr.)	Outstanding more than 60 days
1	APDCL, Assam	160.24	90.94
2	MeECL, Meghalaya	100.58	100.55
3	TSECL, Tripura	30.08	29.06
Total		290.90	220.55

NTPC requests beneficiaries to release dues at least dues more than 60 days by Assam, Tripura & Meghalaya etc immediately.

(ii) Following beneficiaries have not opened the LC of required amounts.

Sl. No	Beneficiaries	LC Required As per PPA (Cr.)	Remarks
1	MeECL, Meghalaya	9.36	Not yet opened
2	DoP, Ar. Pradesh	5.36	Not yet opened
3	MSPDCL, Manipur	5.86	Not yet opened
4	TSECL, Tripura	5.95	Not agreeing to open.

Request to open LC by Ar. Pradesh, Manipur, Meghalaya & Tripura immediately.

Deliberation of the Sub-Committee

(i) Concerned beneficiaries were requested to clear outstanding dues of at least more than 60 days at the earliest.

(ii) All concerned beneficiaries were requested to take immediate action for opening of requisite amount of LC.

Action: All beneficiaries above.

(C) Additional Agenda Items from TSECL

(i) The Hon'ble CERC in its order dated. 28.10.2016 passed in petition No.113/TT/2016 has approved the tariff upto 90% of the AFC for the instant assets (Asset-III for Tripura) setup as Main SCADA EMS system of SLDCs of Assam, Tripura and Meghalaya under Project "Expansion/Upgradation of SCADA/EMS System of SLDCs of NER". Accordingly PGCIL has been claiming monthly invoices amounting to Rs.9, 79,667 per month from the month of April, 2017 onwards. As per procedure laid down in CERC (terms & condition of tariff) Tariff regulation 2014, the annual fixed cost (AFC) of a Transmission System in/c Communication system shall consist of the following components:

- a) Return on equity;
- b) Interest on loan capital;
- c) Depreciation;
- d) Interest on working capital; and
- e) Operation & maintenance expenses of the Project.

Meanwhile, the project executed Agency GE has also raised the bill towards Defect liability period for the same operation and maintenance of the aforesaid instant Main SCADA EMS system Asset-III for Tripura which is not tenable under the said CERC regulation.

Therefore, it requires clarification from PGCIL about the admissibility of claim raised by the agency GE T&D Ltd.

(ii) In the same order dated.28.10.2016 passed in petition No.113/TT/2016, CERC has directed that the AFC of the transmission system including Communication are to be included in POC. But the PGCIL has treated it as Non POC which is contrary to the direction of Hon'ble CERC and requires clarification.

(iii) The PGCIL has filed the Petition No.113/TT/2016 before CERC for approval of tariff for Main SCADA EMS system assets of SLDCs of Assam, Tripura and Meghalaya under Project "Expansion/Upgradation of SCADA/EMS System of SLDCs of NER". But at the time of raising the bill the PGCIL has gone beyond the scope of petition claiming Bill of supply for ULDC charges (Powergrid portion) which is not maintainable.

(iv) The bill for ULDC Charges (State Portion) for Non microwave asset and also for SLDC system has been raising by PGCIL on monthly basis amounting to Rs.1,07,804/- and realizing the payment from TSECL under Non POC since the FY 2009-10 onwards. But the CERC in its order dated 22.02.2014 (Petition No.61/TT/2012) clearly ordered that the said charges may be claimed up to FY2013-14. But PGCIL has raising these bills continuously on monthly basis. Clarification and Justification is essential for settlement of claim by TSECL.

Deliberation of the Sub-Committee

(i to iv) The forum advised PGCIL to response to Tripura's queries regarding the above bills. PGCIL may furnish to Tripura, as a documentary support, for raising those bills, viz., specific CERC orders, Agreements etc.

Both Tripura and PGCIL were advised to settle the issue bilaterally. In case, further deliberation is necessary, the same may be reviewed or taken up in the next CCM.

Action: PGCIL & TSECL

<p style="text-align: center;">DATE AND VENUE OF THE NEXT COMMERCIAL COMMITTEE MEETING</p>

The next Commercial Coordination Sub-Committee meeting will be held in the month of October/November 2017. The date and venue will be intimated separately.

The meeting ended with thanks to the Chair.

Annexure-I**List of Participants in the 33rd CC Meeting held on 25th August 2017**

S.N	Name & Designation	Organization	Contact No.	Email Address
1.	Sh. Hage Mima, EE	Ar. Pradesh	09436041594	mamahage@yahoo.co.in
2.	Sh. M. Kalita, DGM, SLDC	Assam	07002949272	mrkalita.dibrugarh@gmail.com
3.	Sh. Z. A. Choudhury, CGM, SLDC	Assam	09435371734	zakir.ahmed312@gmail.com
4.	Sh. K. Goswami, Consultant	Assam	09864020019	kumud_goswami@rediffmail.com
5.	Sh. Suresh Kaimal AGM (F&A)	Assam	09435114641	suresh11_k@rediffmail.com
6.	Sh. Dipesh Ch. Das AGM (LD-Com)	Assam	09954110254	dipeshdas21@gmail.com
7.	Sh. Binoy Mohan Saikia, DGM (Com)	Assam	09435017233	bms-saikia2@gmail.com
8.	Sh. B. C. Borah, AGM (LD-Com)	Assam	09435119248	bimalchandraborah@gmail.com
9.	Smti L. Ritu, Manager (SLDC)	Manipur	09612882984	redrito3@gmail.com
10.	Smti Khoisnam Steela, Manager (SLDC)	Manipur	08730831103	khoisnam.steela@gmail.com
11.	Sh. Th. Satyajeet Singh, AM, MSPDCL	Manipur	08415945818	thokchomsatyajeet@mspdcl.com
12.	Sh. F. E. Kharshiing, SE, SLDC	Meghalaya	09863066966	frederickek@gmail.com
13.	Sh. H. Shangpliang, SE, MePGCL	Meghalaya	09863315562	hector-fd@rediffmail.com
14.	Sh. B. Nihla, EE, SP, MePTCL	Meghalaya	09436314163	bannikhla@gmail.com
15.	Sh. B. Wankhar, EE (MoD), SLDC	Meghalaya	09436105914	-
16.	Sh. W. Khyriem, EE, GSPD	Meghalaya	09856007107	wanbrkh@gmail.com
17.	Sh. David Ramnunsanga, SE (Comml.)	Mizoram	09436155836	daviddrama63@gmail.com
	No Representative	Nagaland	-	-
18.	Sh. Arup Ganchaudhuri, DGM (C&T)	Tripura	09436139311	ad_comm@rediffmail.com
19.	Sh. M. Choudhury Sr. Mgr (Comml)	NEEPCO	09435339777	munin99@gmail.com
20.	Sh. Devapriya Chowdhury, DGM	NEEPCO	09435339747	neepcocommercial@gmail.com

21.	Sh. Paresh Ch. Barman, GM (Comml)	NEEPCO	09435144141	neepcocommercial@gmail.com
22.	Sh. T. S. Singh, GM	NERLDC	9436302717	-
23.	Sh. R. Sutradhar DGM (MO)	NERLDC	09436302714	rajibsutradhar1965@gmail.com
24.	Sh. S. Shadruddin, CM	NERLDC	09436335380	shadru786@gmail.com
25.	Sh. Babul Roy, Manager	NERLDC	09436335377	broy@Pposoco.in
26.	Sh. Chander Mohan, ED (Comml.)	NHPC	09818039339	ce2commercial@gmail.com
27.	Sh. Raju Prasad Singh, Manager	NHPC	09810208357	rajuprasad@nhpc.nic.in
28.	Sh. Vijay Kumar, Manager	NHPC	09818696821	vijay.kumar239@gmail.com
29.	Sh. R. K. Sood Addl GM (Comml)	NTPC	09650990616	rsood@ntpc.co.in
30.	Sh. Samir Haloi, Sr. Manager (Comml)	NTPC	09437561689	samirhaloio@ntpc.co.in
31.	Sh. Arup Ch. Sarmah GM (Comml)	OTPC	09871839502	arup.sarmah@otpcindia.in
32.	Sh. P. J. Sharma Addl. GM (Comml)	PGCIL	09435734294	nerts_comml@powergrid.co.in
33.	Sh. K. J. Kalita, Sr. Engineer	PGCIL	09485191393	kknerist@gmail.com nerts_comml@posoco.co.in
34.	Sh. P. K. Mishra Member Secretary	NERPC	-	ms-nerpc@gov.in
35.	Sh. B. Lyngkhai Director/S.E (C&O)	NERPC	09436163419	brieflee.lyngkhai@gov.in
36.	Sh. S. M. Aimol Dy. Director/EE (C)	NERPC	08794002106	shialloa@yahoo.com
37.	Sh. S. Mukherjee, AEE	NERPC	08794277306	mukherjeesrijit2010@gmail.com

SAMAST

**SCHEDULING (S)
ACCOUNTING(A)
METERING(M)
AND (A)
SETTLEMENT OF (S)
TRANSACTIONS (T)

IN ELECTRICITY**

1

SAMAST

- ▶ The **integrity, probity and timeliness of the energy accounting and settlement system** is indispensable for the viability, financial stability and sustainability of Power sector.
- ▶ The Central Government recognized the benefits of ABT and the following was stipulated in the **National Electricity Policy** notified on 12.2.2005.
- ▶ Quote
- ▶ "5.7.1(b) The ABT regime introduced by CERC at the national level has had a positive impact. It has also enabled a credible settlement mechanism for intra-day power transfers from licensees with surpluses to licensees experiencing deficits. **SERCs are advised to introduce the ABT regime at the State level within one year.**"
- ▶ Unquote

2

SAMAST

- ▶ scheduling and settlement system are critical for success of the electricity market.
- ▶ **Total number of interface points at the intra State level are 23301 while the number of Interface Energy Meters is 22406.**
- ▶ It may be seen that the placement of Interface energy meters in several States is inadequate.
- ▶ **Roughly only 30% of the Interface Energy Meters in the country are read through Automated Meter Reading system.**

3

SAMAST

- ▶ The **intra state deviation settlement system** for all the intra-state entities within a State/UT has been introduced only in **six (6) States viz. Delhi, Maharashtra, Gujarat, Madhya Pradesh, West Bengal and Chattisgarh.**
- ▶ The States of **Andhra Pradesh, Haryana, Karnataka, Kerala, Odisha, Meghalaya, Punjab, Rajasthan, Telangana, Uttarakhand and Uttar Pradesh** have **implemented deviation settlement system only for IPPs selling power to the discoms under open access** in the respective States.

4

SAMAST

- ▶ It has been decided to do funding for SAMAST implementation from PSDF. Funding in excluding cost of Meters.

5

Suggested action plan for SLDCs /STUs in NER

- ▶ Identification of Intra State Entities
- ▶ Demarcation of Interface boundary for each Intra State Entity
- ▶ Assessment of Meters – Main, Check and Standby

These activities can be started immediately.

6

Suggested action plan for SLDCs /STUs in NER

- ▶ Assessment of Automatic Meter Reading requirement
- ▶ Assessment of IT Infrastructure (Hardware and Software)
- ▶ Preparation of Bill of Quantities
- ▶ Preparation of **Detailed Project Report**
- ▶ **Submission of application for funding from PSDF**

In NER, substantial progress has taken place in case of Assam.

7

Sharing of Inter State Transmission Charges and Losses probable way forward

Probable option for review of existing framework of sharing of interstate transmission charges and losses as sought by Hon'ble CERC.

(Presentation prepared with inputs from NERPC Secretariat and APDCL)

33rd. CCM of NERPC on 25th. August, 2017

PoC – way forward

- Simplification of method
- Major portion (about 80-85%) to be uniform charges may be part of reliability charges
- 15-20% may be sensitive to distance and direction
- HVDC charges to be socialised

PoC – way forward

Para 7(1)(3) of Tariff Policy:

- The spread between minimum and maximum transmission rates should be such as not to inhibit planned development/augmentation of the transmission system but should discourage non-optimal transmission investment.

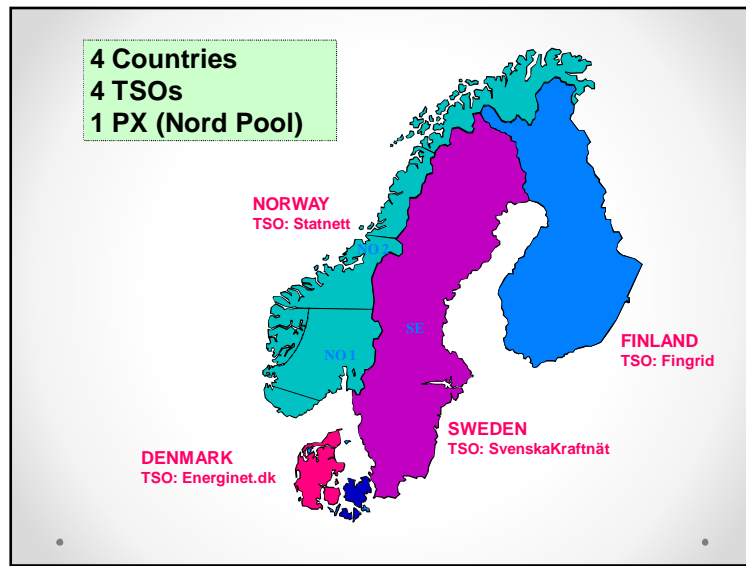
Example of Point of Connection Tariff in Nordic Countries

80-85% Fixed
and
15-20% Variable element



The Nordic System

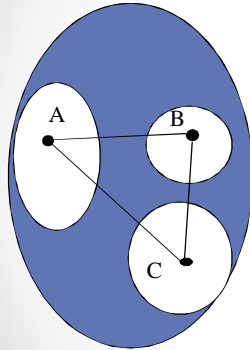
- Denmark uses thermal & wind power
- Norway has hydropower
- Finland, Sweden have mix of hydro and nuclear.
- Nordic grid comprises the Power systems of Denmark, Sweden, Norway and Finland, as well as several interconnections between the countries.
- A single area with a common frequency, with the exception of Western Denmark, which is interconnected with the grid that falls within the area of the continental cooperation organisation UCTE.
- World's first international electric power exchange, Nord Pool, was launched in 1996.
- In 1963, Nordel, a Nordic cooperation program in the field of electric power supply, was established.



Transmission pricing

- Objectives
 - Facilitate trade in the open market.
 - No discrimination of participants in the market. Open access to the grid, the physical market place, for all market participants.
 - Information openness (transparency)
 - Effective use of the grid: Introduce incentives to effective use of the available grid resources.
 - Cover grid cost
 - No distortion of competition for generators and consumers.

Point of connection tariff



The tariff is calculated for input and output in each node

The price is expressed in a price formula and is independent of the power "path".

The pricing is transparent

Incentives for effective use of grid

Facilitate bilateral as well as spot power trade

Marginal Cost meaning

- In economics, marginal cost is the **change in the cost that arises when the quantity produced is incremented by one unit**, that is, it is the cost of producing one more unit of a good.
- Intuitively, marginal cost at each level of production includes the cost of any additional inputs required to produce the next unit. At each level of production and time period being considered, marginal costs include all costs that vary with the level of production, **whereas other costs that do not vary with production are considered fixed.**

The Point Tariff

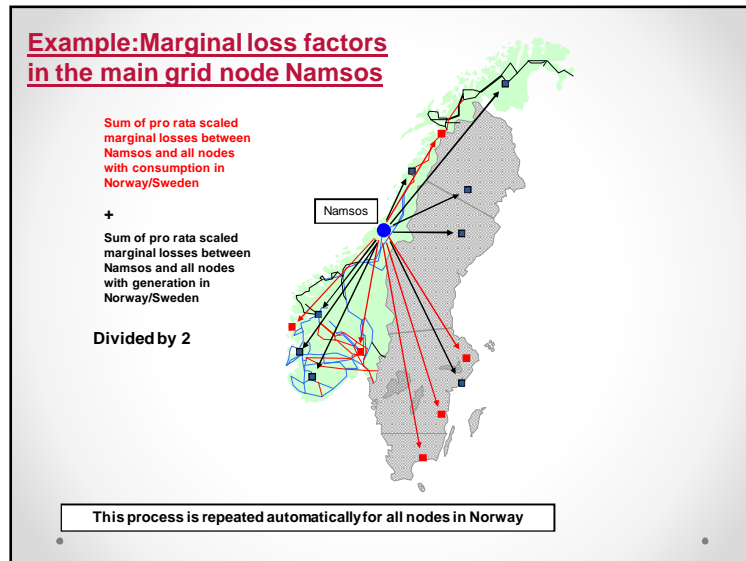
- Transmission tariff design premised on **marginal loss factor** which constitutes variable part of the tariff
- Marginal cost in transmission is mainly cost of losses
- Marginal cost is given by marginal losses.
- **Tariff based on this principle will give signal when and where to produce and consume :**

Generation in deficit area or consumption in surplus area:
(-) ive marginal loss.

Generation in surplus area or consumption in deficit area:
(+) ive marginal loss.

Three parts of point of connection tariff

- **Basic G = Fixed tariff element for generation**
- **Basic L = Fixed tariff element for load.**
- **Variable element = Marginal loss factor**
- **Variable element = 15-20 %**
- **Fixed element (G,L) = 80-85 %**



Aim of the variable element

- Marginal losses are calculated for each node as the sum of weighted marginal losses from that node to all other nodes
- Represents marginal cost in the Grid.
- By this price element, the customer will have a signal for the marginal cost he induces in the System.

Point of Connection Tariff ; Philosophy for allocation of cost base

- Calculate revenue from variable element (Rs/MWh)
- Calculate revenue from Basic G (Rs/MWh)
- Allocate balance Regional cost base to Basic L (Rs/MW)

Part-I Revenue from variable element

- Variable element : What the grid company can expect to receive from the variable element is calculated as follows:

$$\text{Variable element (Rs)} = \text{Energy price (Rs/MWh)} * \text{Marginal loss factor (\%)} * \text{Energy (MWh)}$$

- **Energy price:** Price of energy for covering losses. Has to be determined in a transparent manner approved by the regulator. **Transparency in Norway is achieved by value the variable element according to the price set in the day-ahead market.**
- **The marginal loss factor:** Depend on the power flow in the system, need to be updated regularly so the estimates are as accurate as possible.
- **Energy:** Either fed into or drawn from the transmission grid at the connection point in question for a given time period.

Part-II Revenue from Generator

Part-II Revenue from Load

- Fixed elements to be applied on Generation and Load

पूर्वांतर क्षेत्र के वित्तीय वर्ष 2017-18 के विचलन बकाया की स्थिति (पिछले साल सहित)
Deviation Outstanding status of NER for FY-2017-18(including Last years O/S)

घटक/Constituents	31/07/2017		06/08/2017		तक		आज की तारीख में/As on 17/08/2017		Figs in Lacs	
	टोटल/TOTAL (Till wk-18 of FY17-18)		टोटल/TOTAL (Disb. Till wk-18 Part)		टोटल / TOTAL					
	पूल के लिए देय / Payable to Pool	पूल से प्राप्य / Receivable from Pool	भुगतान किया / Paid	प्राप्त / Received	O/S Payable to Pool	O/S Receivable from Pool			O/S PAYABLE >13 WEEKS	
अरुणाचल प्रदेश / Ar. Pradesh	8990.46	1269.55	8713.43	492.48	277.03	777.07			153.48	
असम / Assam	32911.33	127.26	30321.52	127.26	2589.81	0.00			0.00	
मणिपुर / Manipur	2235.44	1024.17	2084.79	916.62	150.65	107.55			37.91	
मेघालय / Meghalaya	2138.88	3393.76	2138.88	3266.59	0.00	127.17			0.00	
मिजोरम / Mizoram	4622.71	91.74	4484.99	74.12	137.72	17.62			0.00	
नगालैंड / Nagaland	5223.25	277.74	5206.81	261.88	16.44	15.87			0.00	
त्रिपुरा / Tripura	10549.62	885.35	10374.41	752.56	175.21	132.79			0.00	
लोकतक / Loktak	58.00	399.53	57.92	382.93	0.08	16.59			0.00	
नीपको / NEEPCo	1223.81	8240.18	1220.37	7918.67	3.44	321.50			0.00	
ई आर / ER	39428.16	116124.10	37916.33	110624.41	1511.83	5499.69			0.00	
ओटीपीसी/ OTPC	1786.55	4490.48	1782.34	4414.24	4.21	76.25			0.00	
एनटीपीसी / NTPC	1875.83	2746.69	1826.22	2746.69	49.61	0.00			0.00	
एन आर / NR	85046.56	42801.39	72953.03	37701.73	12093.53	5099.66			0.00	
बि.एन.सि / BNC	54.72	89.33	43.31	89.50	11.42	-0.16			0.00	
VAE	5.67	147.84	0.00	0.00	5.67	147.84			0.00	
टोटल / TOTAL	196150.98	182109.10	179124.34	159769.66	17026.65	12339.44				
PSDF		14041.88		6917.98		4687.21				

REACTIVE POOL ACCOUNT DETAILS : 2017-18

As on 11.08.17

Upto Week -17

All figures in ₹

Sl. No	Annexure-I States	PREVIOUS YEAR		CURRENT YEAR AS PER THIS WORKBOOK						Int. Status sheet		Formula
		Outstanding Payable Amt. (upto 02.04.17)	Outstanding Receivable Amt. (upto 02.04.17)	Amt. payable to pool (2017-18)	Amt. paid to pool (2017-18)	Amt. Receivable from pool (2017-18)	Amt. Received from pool (2017-18)	Reactive int. payable o/s (Upto 30.09.16)	Reactive int. Receivable o/s (Upto 30.09.16)			
		1	2	3	4	5	6	7	8		9	
1	Ar. Pradesh	1878916	0	600080	515618	0	0	241766	0		2205144	
2	Assam	411388	0	407745	0	678776	1846598	0	1629639		357316	
3	Manipur	5897789	0	0	7603893	80735	0	1935559	0		148720	
4	Meghalaya	0	5432805	0	0	1232538	5164898	921816	0		-578629	
5	Mizoram	560572	0	706396	797458	0	0	0	0		469511	
6	Nagaland	91075	0	21462	109347	42695	0	0	0		-39505	
7	Tripura	521173	0	334329	0	18908	0	27321	0		863915	
8	PSDF		3928108	0	0	16361	2014820		1496823		-3426472	
	TOTAL	9360913	9360913	2070012	9026316	2053651	7011496	3126462	3126462		0	

North Eastern Regional Power Committee

MINUTES OF MEETING ON SAMAST IMPLEMENTATION IN ASSAM

Date : 24/08/2017 (Thursday)

Venue : "Bijuli Bhawan, Guwahati".

The List of Participants:

1. Zakir Ahmad Choudhury, Chief General Manager-SLDC
2. Manoranjan Kalita, DGM-SLDC
3. Karuna Sharma, Advisor-AEGCL
4. Dipesh Das, Asstt. GM-SLDC
5. Bimal Ch. Bora, Asstt. GM-SLDC
6. Jyotirmoy Das, Asstt. GM-AEGCL
7. Ms. Indrani Bora, JM, SLDC
8. Shri R. Sutradhar, DGM (MO), NERLDC – Member
9. Shri B. Lyngkhai, Director/SE, NERPC – Convener.

DGM-NERLDC briefed the participants about SAMAST and action plan required for its implementation. It was intimated that as per minutes of 1st. FOR Sub-Group meeting for "Implementation of 5-Minute Scheduling, Metering, Accounting and Settlement" held at NLDC on 3rd. August, 2017 (copy of MOM attached), it has been decided as below:

QUOTE

In view of SAMAST implementation, the states who are about to implement the intrastate accounting and settlement system could leapfrog and go for scheduling and settlement at 5- min interval. The scheduling software and the energy meters specifications could in line with the above.

The sub-group agreed that "Scheduling and Despatch" has to be aligned with "Settlement" process in 5-minute timeframe too. There was broad consensus that the new meters may give data, in parallel, in 5 min new coded format as well as in old meters (present) coded format. To begin with, accounts for both 15-minutes and 5-minutes accounting may be kept in parallel so that the transition from 15 minute to 5 minute accounting is seamless and dispute-free.

UNQUOTE

On account of above, it was agreed that procurement of Meters would be as per decision taken in FOR sub group meeting capable of metering at 5-minute interval.

The action plan was decided as below:

1. Identification of Intra State Entities
2. Demarcation of Interface boundary for each Intra State Entity
3. Assessment of Meters - Main, Check and Standby (AEGCL-APDCL interface, AEGCL-APGCL interface, Open Access customers, IPPs, AEGCL transmission elements).
4. Assessment of Automatic Meter Reading requirement
5. Assessment of IT infrastructure (Hardware and Software) – Scheduling software, Meter data processing software, Accounting Software and Open Access software.
6. Preparation of Bill of Quantities
7. Preparation of Detailed Project Report
8. Submission of application for funding from PSDF

Assam SLDC representative intimated that they have already started work on sl. Nos. 1, 2, 3 above and these would be completed shortly. He further stated that there would be a need to have meeting with Meter manufacturer(s) for 5 minute metering and also with vendors for AMR scheme implementation.

It was agreed that a meeting would be convened at SLDC, Kahelipara on 30.08.2017 involving SAMAST group and manufacturer / vendor to have discussion regarding 5 minute metering, AMR etc. Vendors like TCS, M/S Secure Meters would be invited in the meeting.

By that date SLDC would freeze the complete details regarding points 1, 2 and 3.

Target date for completion of DPR would be by 30th. Sept'17.

On funding from PSDF for SAMAST implementation, DGM-NERLDC intimated that funding would be done except the cost of Meters. Assam representative requested for funding of Meters also for NER States. He stated that funding support from PSDF may be extended for the new metering infrastructure of 5-minute metering.

Director-NERPC stated that the matter would be taken up by the SAMAST group with PSDF Secretariat to consider the case of NER States as the amount involved also would be less being small States.

Regarding the agency to be involved in the State, it was clarified that it would be either STU or SLDC.

Chief General Manager-SLDC intimated that representative from Assam for SAMAST group would be Shri Dipesh Das, Assistant GM-SLDC and Ms. Toushita Jigdung, Deputy Manager.

Date & Venue of next meeting

It is proposed to hold the next meeting on 30.08.2017 at 14:00 hrs at SLDC, Kahelipara.

The meeting ended with thanks to the Chair.



भारत सरकार Government of India

विद्युत मंत्रालय Ministry of Power

उत्तर पूर्वी क्षेत्रीय विद्युत समिति

North Eastern Regional Power Committee

एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय

NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya



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website: www.nerpc.nic.in

No. NERPC/OP/SE(O)/2017/ 1461 - 1469

23rd June, 2017

To,

1. Chief Engineer (W Zone), Dept. of Power, Govt. of Arunachal Pradesh, Itanagar-791111.
2. Managing Director, AEGCL, Bijuli Bhawan, Paltan Bazar, Guwahati - 781 001
3. Managing Director, MSPCL, Electricity Complex, Keishampat Junction, Imphal-795001,
4. Director (Transmission), Me.PTCL, Lumjingshai, S.R. Road, Shillong - 793 002
5. Engineer-in-Chief, P&E Dept., Govt. of Mizoram, Aizawl - 796 001
6. Chief Engineer (Power), Dept. of Power, Govt. of Nagaland, Kohima - 797 001.
7. CMD, TSECL, North Banamalipur, Agartala -799 001.

Sub: Formation of group to oversee implementation of SAMAST in NER.

Sir,

Kindly refer minutes of the 12th meeting of FOR Technical Committee on Implementation of Framework for Renewables at the State level held under the Chairmanship of Shri A.S. Bakshi, Member, CERC at Bengaluru on 30th May 2017 (*Relevant portion of the minutes attached*).

In line with the above minutes and as advised by Shri A.S. Bakshi, Member, CERC during his visit to Shillong on 09.06.2017, a group comprising of the representatives of NERPC and NERLDC is formed as below to oversee implementation of SAMAST in NER.

1. **Shri B. Lyngkhai, Director, NERPC ----- Convener**
2. **Shri R. Sutradhar, DGM(MO), NERLDC**

During 133rd OCC of NERPC meeting held on 08.06.2017, all the States were advised to proceed with the activities as listed in SAMAST report (Scheduling, Accounting, Metering, and Settlement of Transactions in Electricity) and apply for PSDF funding. It was also decided to review the matter in OCC forum. Considering importance of the matter, **respective States may nominate a member from each SLDC to be a part of the group to take things forward.** All concerned are requested to do the needful in this regard.

Thanking you.

Yours faithfully,

(P. K. Mishra)

Member Secretary

Encl. As above.

Copy to:

1. Secretary, CERC, 3 rd & 4 th Floor, Chanderlok Building, 36, Janpath, New Delhi- 110001.
2. CEO, POSOCO, B/9, Qutub Institutional Area, Katwaria Sarai, New Delhi - 110016
3. GM, NERLDC, POSOCO, Lapalang, Shillong - 793006.

Relevant portion of minutes

**MINUTES OF TWELFTH MEETING OF FORUM OF REGULATORS (FOR)
“TECHNICAL COMMITTEE FOR IMPLEMENTATION OF FRAMEWORK ON
RENEWABLES AT THE STATE LEVEL”**

Venue : The Chancery Pavilion
135 Residency Road
Bengaluru

Date : 30th May 2017

List of Participants : At **Annexure – I (enclosed)**

The Twelfth meeting of FOR Technical Committee on Implementation of Framework for Renewables at the State level was held under the Chairmanship of Shri A.S. Bakshi, Member, CERC on 30th May 2017. He extended a warm welcome to Chairperson KERC, Members of the Committee, special invitee as well as officers from various institutions. He thanked the Karnataka Commission for hosting the meeting in Bengaluru and for the warm hospitality. He stated that the Committee had come a long way in pursuance of its objectives. He also emphasized the need to implement the recommendations of SAMAST report right away, underlining that majority of the items in the final checklist (*copy of the checklist at Annexure – II*) need minimal monetary resources for implementation.

Thereafter, Chairperson KERC also welcomed the dignitaries and the officers, and wished fruitful deliberations over the day. He acknowledged the benefit of SAMAST roadmap to Karnataka SLDC and other stakeholders. He stated that grid integration of renewable energy (RE) and grid management is a challenge, which can be addressed through appropriate regulations and interventions such as SAMAST. He said Karnataka is enthused by the support received by states such as Tamil Nadu and Andhra Pradesh, and his team will speed up the preparation of DPR. He updated the Committee that Forecasting & Scheduling (F&S) Regulations (for solar/wind generators) and Deviation Settlement Mechanism (DSM) were

going to be implemented in the State by June 1st. He also requested the Committee to examine the mismatch between load peak vis-à-vis the supply peak from Solar projects.

Shri A.S.Bakshi thanked Karnataka for leading the States on Regulations for Forecasting, Scheduling (F&S) and Deviation Settlement for Solar/Wind generators. He enlisted the following critical next steps for grid integration of RE in Karnataka and other States:

- Creation of a State Power Committee, on the lines of National Power Committee
- **Each State to have a small group to oversee implementation of SAMAST and RE regulations, comprising representatives from SLDC, concerned RLDC and RPC.**
- Operationalizing of primary reserves at the State level
- Operationalizing of Ancillary Services at the State level

Discussion

1. Agenda #1: Update on SAMAST for State of Karnataka

Shri R.Thyagaraj, Superintending Engineer, KPTCL, presented the status of implementation of SAMAST framework in Karnataka (*copy of presentation at Annexure-III*). He updated that SCADA RTU has been provided to 94% of all stations (sub-stations, receiving and generating stations). KPTCL has submitted a DPR for optical fibre communication to all its major generating stations to CEA for PSDF funding. Additionally, DPR for implementation of all SAMAST recommendations shall be submitted to CEA by June 25th, 2017. The target date for completion of implementation of the framework is July 2018.

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

उत्तर पूर्वी क्षेत्रीय भार प्रबंधन केंद्र, डाक 1824, लापालाग, शिलांग - 793006 (मेघालय)



एनईआर में डीएसएम रिएक्टिव और फीस और शुल्क सुलह की स्थिति/

DSM, Reactive and Fees & Charges Reconciliation status in NER

DSM Reconciliation statement is presently issued quarterly covering periods (i) Apr to Jun, (ii) July to September, (iii) October to December and (iv) January to March. The reconciliation statement for the period Apr to Jul (Q1) of 2017-18 has been issued in Jul 2017.

The status of signing reconciliation statements by NER constituents is as below:

डीएसएम सुलह की स्थिति/Status of DSM Reconciliation

	सुलह की अवधि/Period of Reconciliation	टिप्पणियां/Remarks	हस्ताक्षर किए अंतिम सुलह/Last signed Reconciliation
अरुणाचल प्रदेश / Ar. Pradesh	Apr-17 to Jun-17	Not Signed	1st Quarter of FY 2015-16
असम / Assam	Apr-17 to Jun-17	Not Signed	3rd Quarter of FY 2016-17
मणिपुर / Manipur	Apr-17 to Jun-17	Not Signed	4th Quarter of FY 2014-15
मेघालय / Meghalaya	Apr-17 to Jun-17	Not Signed	4th Quarter of FY 2016-17
मिजोरम / Mizoram	Apr-17 to Jun-17	Not Signed	4th Quarter of FY 2016-17
नगालैंड / Nagaland	Apr-17 to Jun-17	Signed	
त्रिपुरा / Tripura	Apr-17 to Jun-17	Not Signed	1st Quarter of FY 2015-16
लोकतक / Loktak	Apr-17 to Jun-17	Not Signed	4th Quarter of FY 2016-17
नीपको / NEEPCo	Apr-17 to Jun-17	Not Signed	4th Quarter of FY 2016-17
ओटीपीसी/ OTPC	Apr-17 to Jun-17	Signed	
एनटीपीसी/ NTPC	Apr-17 to Jun-17	Signed	
बीएनसी/ BNC	Apr-17 to Jun-17	Not Signed	1st Quarter of FY 2016-17

रिएक्टिव सुलह की स्थिति/Status of Reactive Reconciliation

	सुलह की अवधि/Period of Reconciliation	टिप्पणियां/Remarks	हस्ताक्षर किए अंतिम सुलह/Last signed Reconciliation
अरुणाचल प्रदेश / Ar. Pradesh	Apr-17 to Jun-17	Not Signed	1st Quarter of FY 2015-16
असम / Assam	Apr-17 to Jun-17	Not Signed	1st Quarter of FY 2016-17
मणिपुर / Manipur	Apr-17 to Jun-17	Not Signed	3rd Quarter of FY 2013-14
मेघालय / Meghalaya	Apr-17 to Jun-17	Not Signed	4th Quarter of FY 2016-17
मिजोरम / Mizoram	Apr-17 to Jun-17	Not Signed	4th Quarter of FY 2016-17
नगालैंड / Nagaland	Apr-17 to Jun-17	Signed	
त्रिपुरा / Tripura	Apr-17 to Jun-17	Not Signed	1st Quarter of FY 2015-16

फीस और शुल्क सुलह की स्थिति/Status of Fees & Charges Reconciliation

	सुलह की अवधि/Period of Reconciliation	टिप्पणियां/Remarks	हस्ताक्षर किए अंतिम सुलह/Last signed Reconciliation
अरुणाचल प्रदेश / Ar. Pradesh	Apr-17 to Jun-17	Not Signed	3rd Quarter of FY 2016-17
असम / Assam	Apr-17 to Jun-17	Not Signed	3rd Quarter of FY 2016-17
मणिपुर / Manipur	Apr-17 to Jun-17	Not Signed	3rd Quarter of FY 2016-17
मेघालय / Meghalaya	Apr-17 to Jun-17	Signed	
मिजोरम / Mizoram	Apr-17 to Jun-17	Not Signed	4th Quarter of FY 2016-17
नगालैंड / Nagaland	Apr-17 to Jun-17	Signed	
त्रिपुरा / Tripura	Apr-17 to Jun-17	Not Signed	3rd Quarter of FY 2016-17
बी.एन.सी/BNC	Apr-17 to Jun-17	Not Signed	
एनईआर्टीएस(पीजी)/ NERTS(PG)	Apr-17 to Jun-17	Not Signed	
नीपको / NEEPCo	Apr-17 to Jun-17	Not Signed	4th Quarter of FY 2016-17
लोकतक / Loktak	Apr-17 to Jun-17	Not Signed	3rd Quarter of FY 2016-17
एनईटीसीएल/NETCL	Apr-17 to Jun-17	Not Signed	3rd Quarter of FY 2016-17
ओटीपीसी/ OTPC(with u-2)	Apr-17 to Jun-17	Signed	
ईएनआईसीएल/ENICL	Apr-17 to Jun-17	Not Signed	3rd Quarter of FY 2016-17
एनटीपीसी / NTPC	Apr-17 to Jun-17	Signed	