



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/2016/352-98

Dated: 16th April 2018

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, Dongtiah-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, Dongtiah-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 35th CC meeting held on 21/03/2018 at "Radisson Blu, Guwahati, Assam.

Please find enclosed herewith the minutes of the 35th Commercial Committee Meeting held at "Hotel Radisson Blu, Guwahati, Assam on 21st March 2018 for your kind information and further necessary action.


Encl.: As above

yours faithfully,

(L. B. Muanthang)
Director/S.E

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



Director/S.E

North Eastern Regional Power Committee

MINUTES OF THE 35th COMMERCIAL COORDINATION

SUB-COMMITTEE MEETING OF NERPC

Date : 21/03/2018 (Wednesday)
Time : 10:30 hrs
Venue : Hotel Radisson Blu, Guwahati, Assam

The 35th CC Meeting of NERPC was held on 21st March 2018 in Guwahati, Assam, under the aegis of the North Eastern Electric Power Corporation Limited (NEEPCO). The list of participants in the 35th CC meeting is attached at **Annex. – I**.

The meeting commenced with presentation of flower bouquets to the dignitaries on the dais namely, Shri P. K. Mishra, Member Secretary, NERPC, Shri T. S. Singh, Executive Director, NERLDC, Shri Z. A. Choudhury, CGM, SLDC, Assam, Shri B. Lyngkhoi, Director/SE (O), NERPC, Shri L. B. Muanthang, Director/SE (C), NERPC and Smt. Debjani Dey, GM (Comml), NEEPCO respectively.

Smt. Debjani Dey, GM (Comml), NEEPCO extended a warm welcome to the delegates of the 35th CC meeting. She expressed deep gratitude to NERPC Secretariat for giving NEEPCO the opportunity to host the meeting in Guwahati. Smt Debjani informed that the 600 MW Kameng Hydro Electric Project and 110 MW Pare Hydro Electric Project in Ar. Pradesh is almost ready for commissioning and the declaration of COD is expected by April 2018. She further stated that as the final tariff of these two projects is not expected before COD, NEEPCO is proposing provisional tariffs of the said projects in order to facilitate billing and smooth conduct of commercial transaction. She requested CC members to agree to the proposed provisional tariff which would be adjusted after final tariff is issued by Hon'ble Commission.

Shri P. K. Mishra, Member Secretary, NERPC, while welcoming the participants of the meeting, highlighted the latest status of initiatives taken up by NERPC Secretariat. He informed that the DPR for SAMAST in NER States (except Ar. Pradesh) is on the final stage and the same would be sent for approval for funding. He also informed that the foreign study tour was delayed due to some administrative issues and the same has now been resolved and is likely to be conducted soon.

Member Secretary also stated that NERPC Secretariat is putting all efforts to impress upon CERC to take considered view of NER states while framing various regulations from time to time.

Shri B. Lyngkhai, Director/SE (O), NERPC briefed the CC members on the "Views of NER on the General Network Access (GNA)" recently submitted to CERC on 19.03.2018. He explained details of the views and comments of NER constituents on the "draft Central Electricity Regulatory Commission (Grant of Connectivity and General Network Access to the Inter-State transmission system and other related matters) Regulations, 2017" with a ppt presentation. The Submission of NER forum on the GNA is at **Annexure-II**.

Shri Lyngkhai also stated that NER constituents should support and stand united for raising our common concern to various forums including CERC. He requested all to cooperate and put their views forward in the NER forum so that collective single opinion could be forwarded to platforms like CERC etc.

On behalf of NERPC Secretariat, Shri S M Aimol, Dy Director/EE (Comm), conveyed sincere thanks to NEEPCO for making excellent arrangement for the meeting and for comfortable stay of all delegates. He also expressed heartfelt gratitude to all CC members for their presence, active participation and cooperation towards fruitful deliberation and making the 35th CCM a grand success.

NEEPCO also expressed their gratefulness to NERPC and all delegates for their participation and making the meeting a success.

The following are the decisions taken in the 35th Commercial Committee meeting:

CONFIRMATION OF MINUTES

1. CONFIRMATION OF MINUTES OF THE 33RD COMMERCIAL SUB-COMMITTEE MEETING OF NERPC:

Director/SE (C) informed that the minutes of the 34th CC meeting held at "Hotel Grand Palace, Jorhat, Assam on the 24th January 2018 was circulated vide No.: NERPC/COM/CC_Min/2016/6052-6098 dated 19th February 2018.

Since no comments/observations were received from the constituents, the sub-committee confirmed the minutes of 34th CCM of NERPC.

AGENDA ITEMS

2. AGENDA ITEMS FROM NERPC:

2.1 Status of 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. The current status of payment for FY 2017-18, as on 15.03.2018 is as given below:

Constituents	Status of Payment	Constituents	Status of Payment
NTPC	Payment Received	Ar. Pradesh	Payment Received
NHPC	Payment Received	Assam / APDCL	DUE
PTC	DUE	Manipur/MSPDCL	DUE
NVVN	DUE	Meghalaya/MeECL	Payment Received
OTPC	Payment Received	Mizoram	Payment Received
NEEPCO	DUE	Nagaland	DUE
PGCIL	Payment Received	Tripura/TSECL	Payment Received

Concerned constituents are requested to kindly deposit respective amount for FY 2017-18 at the earliest before end of the financial year.

Deliberation of the Sub-Committee

NERPC informed that Nagaland has deposited Board Fund contribution of Rs 1 Lac and it has been credited in the designated NERPC account on 19/03/2018.

Assam and Manipur informed that they will pay within March 2018.

All other concerned constituents were reminded to deposit their respective amount within current financial year.

The Sub-committee noted as above.

Action: All concerned constituents.

2.2 Status of 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 Lakhs each whereas states & traders are to contribute Rs 1.11 Lakhs each. All the constituents except Manipur and Nagaland have paid their respective amount.

Manipur and Nagaland are requested to deposit the amount of Rs 1, 11, 000/- respectively at the earliest.

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 Lakhs each for the project. This project is meant for the above 6 states only. All the states have paid except Manipur.

Manipur is requested to kindly make payment of Rs 7 Lakhs at the earliest.

Deliberation of the Sub-Committee

NERPC informed that Nagaland has deposited the requisite contribution of Rs 1.11 Lacs towards design & development of NERPC App and it has been credited in the designated NERPC account on 19/03/2018.

Manipur representative stated that the required contribution for NERPC App and CDAC Real Time Energy Assessment Project of Rs 1.11 Lacs & Rs 7 Lakhs respectively would be paid within current financial year.

The Sub-committee noted as above.

Action: Manipur

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 adjusted against the outstanding dues of the Regulated Entity (In Rs.)
						Amount of 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. NTPC is required to furnish details as above.

Deliberation of the Sub-Committee

NERPC informed that NTPC has submitted required data up to July 2017 (for FY 2017-18). NTPC was requested to furnish up to date data.

NTPC stated that they would furnish the required up-to-date information to NERPC Secretariat at the earliest.

The Sub-committee noted as above.

Action: NTPC

2.4 Metering of Re-import of Kurichhu energy by Bhutan through Assam:

As requested by Assam, the issue for settlement of the past energy transaction from the period since December 2014 has been discussed in past CC meetings. In the 34th CCM, it was decided that since installation of SEM is a prerequisite condition - as agreed in the special meeting in Kolkata dt.04.01.18 - for further discussion for settlement of past energy transaction as above, APDCL will initiate action for installation of SEM with the help of NERTS/POWERGRID. It was decided that the matter would be reviewed in next OCCM/CCM.

APDCL may like to inform the status regarding installation of SEM.

Deliberation of the Sub-Committee

APDCL representative informed that the APDCL has initiated action in this regard. He further stated that APDCL has also taken up the matter with their counterpart in Bhutan for replacement/installation of SEM.

APDCL was advised to expedite for installation of SEM so that the issue of settlement of energy exchange between Assam & Bhutan could be resolved at the earliest.

The Sub-committee noted as above.

Action: APDCL

3. AGENDA FROM NEEPCO

3.1 Provisional tariff of 600 MW Kameng and 110 MW Pare Hydro Electric Projects.

The 600 MW Kameng and 110 MW Pare Hydro Electric Projects in Arunachal Pradesh being executed by NEEPCO are nearing completion and commercial operation of the same is expected to commence in March / April 2018. Petitions for determination of tariff of the two power stations are being filed before the Hon'ble Central Electricity Regulatory Commission shortly.

The tariff determination will not be completed before declaration of COD and the process is expected to take 3 to 4 months' time. Therefore, in order to facilitate billing and smooth conduct of commercial transactions, it is proposed that provisional tariffs be agreed upon till finalization of tariffs by the Hon'ble Commission. The proposed provisional tariffs will be effective during the period with effect from the date of COD till finalization of tariffs by the Hon'ble Commission. Claims / adjustments, if any, on account of under billing / overbilling arising out of difference between the provisional tariffs and the CERC determined tariffs will be made after the tariff orders are issued.

The following provisional tariffs are proposed for consideration of the house:

1. **Kameng HEP: Rs. 4.00 / kWh**
2. **Pare HEP: Rs. 5.00 / kWh**

Calculations and justifications for the proposed provisional tariffs will be presented to the house during the course of the meeting.

All constituent beneficiaries are requested to kindly give their consent to the above proposal.

The house may deliberate on this issue and take a reasonable decision in the interest of all concerned.

Deliberation of the Sub-Committee

Tripura representative stated that the tariff worked out by NEEPCO should be supported by detail calculation sheet backed with authenticated documents. He also requested that NEEPCO may come up with a pragmatic and fair exercise to contain the tariffs within reasonable rate so that interest of the beneficiaries is not adversely affected.

Representative of Assam and other beneficiaries present in the meeting also supported the views of Tripura and also requested that NEEPCO should try to further reduce the tariff.

DGM (Comml), NEEPCO informed that NEEPCO offered the provisional tariffs of Rs 4/kWh and Rs 5/kWh for Kameng and Pare HEP respectively after calculating the tariff as per CERC norms and the tariffs arrived for both the projects are more than the provisional tariff offered to the beneficiaries. Calculation sheet circulated by NEEPCO is at **Annexure 3.1**. He stated that in addition, other documents would be furnished by NEEPCO as per request of beneficiary.

Further, DGM (Comml), NEEPCO informed that petitions are being filed for these two projects and final tariffs will be decided by Hon'ble CERC. He further stated that if agreed by the forum, the proposed provisional tariffs will be effective during the period with effect from the date of COD till final tariffs are issued by the Hon'ble Commission. He further clarified that adjustments, on account of under billing or overbilling arising out of difference between the provisional tariffs and the CERC determined tariffs will be made after the tariff orders are issued.

After discussion at length, the forum decided as follows:

1. Beneficiaries agreed in-principle, for allowing NEEPCO for billing of provisional tariff subject to consideration of points 2, 3 & 4 below.
2. NEEPCO should furnish to beneficiaries all the relevant/certified supporting documents used for determination of tariff/provisional tariff.
3. NEEPCO must try to ensure that the final tariff when decided by Hon'ble CERC should not be more than the provisional tariff agreed.
4. NEEPCO should put all efforts and explore to further reduce the final tariffs.

Action: NEEPCO & all concerned beneficiaries.

4. AGENDA ITEMS FROM NERTS/POWERGRID

4.1 Outstanding dues:

The total outstanding of POWERGRID's NER beneficiaries as on 14.03.2018 is as under-

All Figures in INR Crores

DIC	Total Outstanding	Outstanding more than 60 days	Average billing	Remarks
Ar. Pradesh	5.23	0.00	3.05	-
AEGCL (Assam)	34.00	0.00	35.00	-
Manipur	11.38	3.68	3.85	-
MeECL (Meghalaya)	19.64	11.38	3.50	05 months receivables
Mizoram	6.72	0.35	3.80	-
Nagaland	-0.01	0.00	3.35	-
TSECL (Tripura)	0.81	0.31	3.50	-
Total	77.76	15.34	56.05	-

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

Deliberation of the Sub-Committee

The CC members noted the concern of NERTS and the huge outstanding dues against MeECL.

NERPC informed that as decided in last CCM, a special meeting with higher officials of Meghalaya will be arranged by NERPC shortly to discuss all outstanding and LC issues of MeECL.

Manipur and other concerned beneficiaries were also requested to clear outstanding dues at the earliest.

Action: All concerned beneficiaries.

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 (14.03.18) 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	08.10.18	285.07	36.39	321.46
2	AEGCL (Assam)	4217.83	31.05.18	4217.83	0.00	4217.83
3	Manipur	393.05	16.10.18	236.79	156.26	393.05
4	MeECL	700.00	04.10.18	300.00	400.00	700.00
5	Mizoram	400.94	04.05.18	400.94	0.00	400.94
6	Nagaland	437.73	21.03.18	459.62	-	437.73
7	Tripura	379.73	14.02.19	325.00	54.37	379.73

- DICs are requested to renew & enhanced the LC as per requirement.

Deliberation of the Sub-Committee

Manipur and Ar. Pradesh agreed to expedite for early enhancement of the requisite LC. Other concerned utilities were also reminded to renew/enhance the requisite amount of LC in line with CERC stipulation.

Action: All concerned beneficiaries.

5. AGENDA ITEMS FROM OTPC**5.1 *Outstanding Dues and Payment Security Mechanism from MePDCL***

MePDCL has been making delayed payments against the energy bills raised by OTPC Palatana Project and there have been regular deficit payments against the energy bills. This has led to an accumulation of large dues against energy bills. Further, MePDCL has been making deficit part payments against energy bills in small installments, which is not helping to reduce the outstanding dues in any way.

Entity	Total Outstanding Dues including supplementary energy bill	Dues over 60 Days including supplementary bill	Status of Payment Security Mechanism
MePDCL	68.06 Crores	44.765 Crores	Never provided the PSM

As the financial year is drawing to a close, such large outstanding payments reflect poorly on the balance sheets of the generator. Further, our auditors regularly question us regarding the non-availability of the PSM from MePDCL when all other beneficiary states have provided the requisite PSM.

The forum is requested to impress upon MePDCL to liquidate the energy bills at the earliest and provide the required letter of credit to OTPC.

Deliberation of the Sub-Committee

NERPC informed that as decided in last CCM, a special meeting with higher officials of Meghalaya will be arranged by NERPC shortly to discuss all outstanding and LC issues of MeECL.

6. AGENDA FROM NTPC

6.1 Outstanding more than 60 days as on 14.03.2017 is Rs 156.59 Crore.

Sl.No	Beneficiaries	Total Outstanding in Cr.	Outstanding more than 60 days
1	MeECL, Meghalaya	141.78	124.87
2	Deptt. of Power, Mizoram	33	11.96
3	DoP, Arunachal	20.39	-
4	MSPDCL, Manipur	21.87	7.80
5	TSECL, Tripura	33.14	11.96
6	APDCL, Assam	202.28	-
Total		452.46	156.59

Concerned beneficiaries are requested to liquidate the outstanding dues.

Deliberation of the Sub-Committee

All beneficiaries were requested to clear outstanding dues of NTPC at the earliest. As far as MeECL is concerned, as decided in last CCM, a special meeting with higher officials of Meghalaya will be arranged by NERPC shortly to discuss all outstanding and LC issues of MeECL.

Action: All beneficiaries.

6.2 Following beneficiaries have not opened the LC of required amounts after commercially operational of BgTPP U#2 w.e.f 01.11.2017.

Sl. No.	Beneficiaries	LC Required As per PPA (Cr.)	Remarks
1	MeECL, Meghalaya	16.44	Not yet opened
2	DoP, Arunachal Pradesh	8.68	LC opened for Rs 4.01 Crs. LC to be enhanced.
3	MSPDCL, Manipur	10.75	Not yet opened
4	TSECL, Tripura	10.91	Not yet opened
5	Deptt. of Power, Mizoram	8.74	Not yet opened

Above beneficiaries are requested to open/enhance the required LC.

Deliberation of the Sub-Committee

All beneficiaries were requested to open/enhance the LC of requisite amount as per CERC stipulation.

Action: All beneficiaries.

6.3 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

Member Secretary, NERPC stated that the issue of Tripura not signing of the TPA has been discussed a number of times in the CC forum as well as in TCC/RPC meeting.

He informed that, as decided in the 34th CCM, NERPC will take up the issue again in the coming TCC/NERPC Meeting.

Action: NERPC.

7. AGENDA ITEMS FROM NHPC

7.1 *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. The issue was discussed in 34th CCM of NERPC held on 24.01.2018 wherein Arunachal Pradesh informed that they are waiting for clearance from the state government. Further, it was decided that Department of Power, Arunachal Pradesh, will give their consent at the earliest after getting clearance from Govt. of Arunachal Pradesh for Subansiri Lower HE Project. Accordingly, PPA of Tawang-I/ II will also be signed on similar lines as Tawang-I has been dropped by NHPC for the time being. NHPC is still awaiting the consent from Department of Power, Arunachal Pradesh.

In view of above, Deptt. of Power, Govt. of Arunachal Pradesh is requested to give their consent at the earliest please after getting clearance from Govt. of Arunachal Pradesh for Subansiri Lower HE Project. Accordingly PPA of Tawang-II will also be signed on similar lines.

Deliberation of the Sub-Committee

Arunachal Pradesh representative stated that they have already communicated their willingness to sign the PPA and they are only awaiting direction from the state government before signing the PPA. Both NHPC and Ar. Pradesh informed that the matter would be resolved soon.

The forum therefore decided that the agenda for PPA of Subansiri Lower HEP be dropped for time being.

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

Signing of PPA in respect of Tawang HE Projects (Stage-II) is pending with Manipur & Arunachal Pradesh. The matter also stands discussed in 33rd CCM of NERPC held on 25.08.2017 wherein it was informed by the representative of MSPDCL that they will pursue the matter with competent authority for signing of the PPA in respect of Tawang-II HE Project before the next CCM. But even after the 34th CCM held on 24.01.2018, we have not received any response from them.

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

Manipur representative stated that MSPDCL has already conveyed the decision of the Manipur government on signing of the PPA of Tawang –I&II vide their letter No. 2/02/2014/MSPDCL(COMML)/611-12 dated 22.01.2018.

MSPDCL was requested to send the letter once again to NHPC with a copy to NERPC secretariat for record.

Action: MSPDCL

7.2 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 ₹ 9 Crores (including Rs 0.50 Crore paid on 13.03.2018) since Mar'2017 against total outstanding dues of ₹26.30 Crores. As on date, an amount of **Rs 26.30 Crores** (Including surcharge of **Rs 13.78 Crores** up to 28.02.2018) is payable by Meghalaya. The matter was also discussed in 34th CCM of NERPC. As a follow up we have again requested MeECL vide letter dated 09.02.2018 to release the outstanding dues of NHPC as per their commitment but MeECL has not fulfilled its commitment. It is pertinent to state that even Joint Secretary (Hydro), Ministry of Power, Govt. of India has also expressed her displeasure for not clearing the dues.

In view of above, Meghalaya is requested to release the outstanding dues of NHPC at the earliest.

Deliberation of the Sub-Committee

As MeECL was not represented in the meeting, the issue could not be discussed. However, NERPC informed that as decided in last CCM, a special meeting with higher officials of Meghalaya will be arranged by NERPC shortly to discuss all outstanding and LC issues of MeECL.

(ii) **Power & Electricity Department, Govt. of Mizoram:** An amount of **Rs 1.91Crores** (including surcharge of **Rs 0.04 Crore** up to 28.02.2018) is due for payment from Mizoram. Out of which principal amount of **Rs 0.70 Crore** is outstanding for more than 60 days. **In view of above, Power & Electricity Deptt. Govt. of Mizoram is requested to clear their outstanding dues including**

surcharge i.e. Rs 1.91 Crores immediately and ensure timely payment of energy bills in future.

Deliberation of the Sub-Committee

As Mizoram was not represented in the meeting, the issue could not be discussed.

8. AGENDA FROM NERLDC

8.1 *Deviation charges outstanding:*

Status of Deviation charges outstanding as on 08/03/2018 is attached (**Annex. -8.1**). From the same it can be seen that Arunachal Pradesh (**Rs. 9.89 Crores**), Assam (**Rs. 3.22 Crores**) & Mizoram (**Rs. 1.09 Crores**) are major defaulters.

The concerned States may do the needful to clear the outstanding.

Deliberation of the Sub-Committee

NERLDC representative stated that outstanding due of Ar. Pradesh has been accumulating over a period of time and they should take immediate necessary action to clear the dues. Ar. Pradesh representative agreed to liquidate their outstanding dues as soon as possible.

APDCL representative also agreed to clear their dues at the earliest.

8.2 *Reactive Charges Outstanding:*

Status of Reactive charges outstanding as on 07/03/2018 is attached (**Annex.-8.2**). From the same it can be seen that Arunachal Pradesh – Rs. 26.27 Lakhs, Assam – Rs. 45.68 Lakhs, Manipur – Rs. 2.29 Lakhs, Mizoram – Rs. 9.15 Lakhs and Nagaland – Rs. 8.56 Lakhs are major defaulters.

Arunachal Pradesh, Assam, Manipur, Mizoram and Nagaland are required to take immediate necessary action.

Deliberation of the Sub-Committee

NERLDC representative stated that all the States should take action to clear the dues. The amount being small, regular action in this regard would enable zero outstanding and the item can be dropped from Agenda.

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:-

घटक/Constituents	एल सी राशि/LC Amount ₹ (in Lakhs)
अरुणाचल प्रदेश / Ar. Pradesh	95.81
असम / Assam	562.00
मणिपुर / Manipur	42.13
मिजोरम / Mizoram	58.43
त्रिपुरा / Tripura	199.00

Till date only Nagaland has opened LC.

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

Deliberation of the Sub-Committee

NERLDC representative requested all the States to open LC as per CERC stipulations.

8.4 SAMAST implementation in NER:

The SAMAST group formed by MS-NERPC comprising of Director/SE (O), NERPC, DGM (MO)-NERLDC and representatives from States have been actively working for implementation of SAMAST mechanism in all NER States.

In the 34th CCM of NERPC, Commercial Committee agreed to the following and advised SAMAST Group to go ahead with the activity of SAMAST implementation.

1. Preparation of common technical specs for AMR and utility softwares like scheduling software, meter data processing software, accounting software, open access software etc. for all NER States.
2. The common technical specs can be drafted by a working committee.
3. This would enable implementation of a common system in all SLDCs.
4. NERPC secretariat can be authorized to call common tender for all NER States which would help in cost optimization and also effective implementation in all States.
5. Otherwise it would be difficult to get SAMAST implemented in small States due to non-availability of good vendors.

SAMAST group may update the status.

Deliberation of the Sub-Committee

DGM (MO), NERLDC gave a presentation on behalf of SAMAST Group to update the forum about the status of SAMAST implementation in NER States. The presentation

which was also made to Hon'ble CERC on 19.03.2018 is attached at **Annex-8.4**. It was intimated that SAMAST Group had held meeting with all NER States except Ar. Pradesh and DPR preparation was in progress. Regarding Ar. Pradesh, it was intimated that the meeting would be organized shortly.

Regarding common DPR and procurement/implementation by a single agency on behalf of all NER States as agreed in OCC/CCM of NERPC, it was stated that same would be presented to FOR Technical Committee in its meeting at Shillong on 16.04.2018, for approval.

Commercial Committee appreciated the actions taken by SAMAST Group so far and felt that the momentum should be sustained to enable SAMAST implementation in all NER States.

9. AGENDA FROM APDCL

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

Subsequent to the decision taken in the 33RD CC meeting of NERPC on above subject, APDCL and the official of Arunachal Pradesh (AP) had discussed the matter in presence of NERPC and NERLDC. APDCL signed a minutes evaluating the mechanism of accounting procedure of AP consumption at the 33 kV and 11kV supply level and sent through NERLDC /NERPC for necessary action from AP end. But till now, the minute is not signed by Arunachal Pradesh. Instead, they informed vide their letter dtd 08.01.2018 that they are examining the matter. In 34th CC meeting NERPC had informed that a meeting will be organized soon to discuss the issue pertaining to Arunachal Pradesh. APDCL now requests NERPC to give directives to both parties to solve this issue early.

Deliberation of the Sub-Committee

Ar. Pradesh representative informed that the Department of Power, Ar. Pradesh is examining the proposed methodology/procedure of accounting discussed at the special meeting in Guwahati dated 22.09.2017. He further stated that another meeting would be required in the presence of higher officials of DoP, Ar. Pradesh to firm up the mechanism which could be organized in the month of April 2018.

Director/SE (O), NERPC informed that a meeting would be organized to discuss all issues pertaining to Ar. Pradesh and the matter regarding Assam and Ar. Pradesh will also be discussed.

Action: NERPC, Ar. Pradesh & Assam

ANY OTHER ITEMS

10.1 Request for allowing DC more than 100% of Installed Capacity for NTPC BgTPP:

NTPC Bongaigaon Thermal Power Plant has two commercially declared units of 250 MW each. Our 100% DC is 455MW.

With reference to IEGC fifth amendment para (8) dated 12.04.2017

Quote

“For the purpose of ensuring primary response, RLDCs/SLDCs shall not schedule the generating station unit (s) thereof beyond ex bus generating corresponding to 100% of the Installed capacity of the generating station or unit (s) thereof.”

Unquote

In the amendment, it has been categorically mentioned for the restriction of SG by RLDCs/SLDCs, while nothing has been mentioned about DC.

It is further to mention that, Talcher Super Thermal Power Station (TALST2 – 2000 MW) is declaring DC of 1920 MW (100% normative DC is 1885 MW) and SRLDC & SRPC is accepting and publishing the same. A copy of implemented schedule of 18th March 2018 is being attached (**Annex.-10.1**).

In view of above-mentioned points, it is requested to allow NTPC Limited to declare DC of more than 100% in line with SRLDC for TSTPS ST-II with immediate effect.

Deliberation of the Sub-Committee

The CC forum requested NERLDC to discuss with other regions and may follow the same if it does not contravene the CERC regulations in force.

DATE AND VENUE OF THE NEXT COMMERCIAL COMMITTEE MEETING

The next Commercial Coordination Sub-Committee meeting will be held in the month of May/June 2018. The date and venue will be intimated separately.

The meeting ended with thanks to the Chair.

Annexure-I**List of Participants in the 35th CC Meeting held on 21st March, 2018**

S. N.	Name & Designation	Organization	Contact No.	Email Address
1	Hage Mima, EE	Ar. Pradesh	09436041594	mimahage@yahoo.co.in
2	Sh. Z. A. Choudhury, CGM, SLDC	Assam	09435371734	zakir.ahmed312@gmail.com
3	Sh. Binoy M. Saikia, GM, APDCL	Assam	09435017233	bms.saikia2@gmail.com
4	Sh Ramendra Choudhury, DGM, APDCL	Assam	09435143426	rawman.ghy@gmail.com
5	Sh. K. Gogoi, DGM, SLDC	Assam	09435360066	kgogoi59@gmail.com
6	Sh. K. Goswami, Consultant, APDCL	Assam	09864020019	kumud_goswami@rediffmail.com
7	Sh. Suresh Kaimal AGM (F&A), AEGCL	Assam	09435114641	suresh11_k@rediffmail.com
8	Sh. Atul Boro, AGM (TRC)	Assam	08473049492	atulboroo@gmail.com
9	Sh. Dipesh Ch. Das, AGM (LDCom)	Assam	09954110254	dipeshdas21@gmail.com
10	Sh. Indrajit Tahbildar, DM (TRC)	Assam	09864799857	indra.nits@gmail.com
11	Sh. Satyajeet Thokchom, DM, MSPDCL	Manipur	08415945818	satya14mag@gmail.com
	No Representative	Meghalaya	-	-
	No Representative	Mizoram	-	-
	No Representative	Nagaland	-	-
12	Sh. Arup Gan Choudhuri, DGM (C&T)	Tripura	09436139311	arupgan2000@gmail.com
13	Sh. Debabrata Pal, Sr. Manager (Comml)	Tripura	09436500244	d_pal1966@rediffmail.com
14	Smt. Debjani Dey, GM (Comml)	NEEPCO	09401012389	neepcocommercial@gmail.com
15	Sh. D. Chowdhury, DGM (Comml)	NEEPCO	09435339747	neepcocommercial@gmail.com
16	Sh. M. Choudhury, Sr. Mgr. (Comml)	NEEPCO	09435339777	neepcocommercial@gmail.com
17	Sh. R. Raina, CE (Comml.)	NHPC	09800213734	ravinderraina@nhpc.nic.in
18	Sh. Vijay Kumar, Mgr (O&M)	NHPC	09818696821	vijay.kumar239@gmail.com

19	Sh. Girish Ch. Mohapatra, AGM (Comml.)	NTPC	09437049372	gcmohapatra@ntpc.co.in
20	Sh. Arup Ch. Sarmah GM (Comml)	OTPC	09871839502	arup.sarmah@otpcindia.in
21	Sh. Ashish Shrivastav, Manager (Comml.)	OTPC	09958995890	ashish.shrivastav@otpcindia.in
22	Sh. P. J. Sharma, Addl. GM (Comml)	PGCIL	09435734294	p.j.sharma@powergridindia.com
23	Sh. K. J. Kalita, Sr. Engineer	PGCIL	09485191393	nerts_comml@posoco.co.in
24	Sh. T. S. Singh, ED	NERLDC	09436302717	tssingh@posoco.in
25	Sh. R. Sutradhar, DGM (MO)	NERLDC	09436302714	rajibsutradhar1965@gmail.com
26	Sh. S. Shadrudin, CM	NERLDC	09436335380	shadru786@gmail.com
27	Sh. P. K. Mishra, Member Secretary	NERPC	09968380242	ms-nerpc@gov.in
28	Sh. L. B. Muanthang, Director/S.E (C)	NERPC	09436731488	muanthang@rediffmail.com
29	Sh. B. Lyngkhai, Director/S.E (O)	NERPC	09436163419	brieflee.lyngkhai@gmail.com
30	Sh. S. M. Aimol, Dy. Director/EE (C)	NERPC	08794002106	shialloa@yahoo.com
31	Sh. A. Agrawal, AD-I /AEE	NERPC	09871266951	a.abhijeet123@gmail.com

**Views of NER Constituents on draft
Central Electricity Regulatory Commission
(Grant of Connectivity and General
Network Access to the Inter-State
transmission system and other related
matters) Regulations, 2017**

Presentation by NERPC before CERC

Date: 19.03.2018



Views of NER on GNA

GNA implementation

GNA is a welcome step to ensure congestion free transmission of power.

The objective of 24x7 power supply can only be put in place if the transmission infrastructure is adequate and the network is congestion free.

Views of NER on GNA

Sharing of transmission charges under GNA

NER utilities are of a strong view that a **proper and fair sharing mechanism is key** to implementation of GNA and the concerns of Region would have to be duly considered.

Views of NER on GNA

Applicant for Connectivity:

“Applicant for Connectivity” means: Consumer who intends to avail supply for a minimum load of 250 MW from the inter-State transmission system

There needs to be an exception in case of NER. Consumers with >100 MW should be eligible to apply for connectivity.

Views of NER on GNA

International Transaction

There is an International transaction of 160 MW from Tripura to Bangladesh as per GOI policy on Indo-Bangla cooperation on Power which is solely monitored by MOP. Tripura is not in a position to decide and project the quantum five year down the line.

There are similar international transactions involving other NER States as well which may make it difficult to assess GNA quantum.

Views of NER on GNA

GNA for Gas based Generators:

As per IEGC, In case of gas/liquid fuel based units, suitable adjustment in Installed Capacity should be made by RLDCs/SLDCs for scheduling in due consideration of prevailing ambient conditions of temperature and pressure....

Gas Stations can achieve beyond IC in winter,
Hence, exception may be provided to gas/liquid based stations accordingly allowing flexibility of scheduling beyond GNA

Views of NER on GNA

Signing PPA not pre-requisite for GNA

It needs to be explicitly mentioned in the Regulations, that Signing PPA would not be pre-requisite for GNA

Views of NER on GNA

Period of GNA

The period of GNA is not mentioned in the draft regulations. Same may be mentioned.

Views of NER on GNA

Relaxation in clause 16.1

The addition of **new gas based generating unit generally takes about 2–3 years in a brownfield project.**

Hence making an application for GNA prior to 5 years may not be possible and relaxation may be given **in case building of new transmission system is not required.**

Views of NER on GNA

Compensation payable by transmission licensee

Clause 27.8: In case the alternative arrangement as provided in the Regulation 27.7 cannot be provided, the transmission licensee shall pay proportionate transmission charges to the generator.

.....the transmission licensee **shall pay fixed charges of the generator.**

Views of NER on GNA

Treatment of payment of charges in case of non-availability/delay

Clause 28.2...in case of non-availability of identified downstream/upstream system,**the entity who is responsible for the non-availability/delay would be decided by Regional Study Committee.**

KAMENG HYDRO ELECTRIC PROJECT, ARUNACHAL PRADESH
CALCULATION OF TARIFF BASED ON PETITION DETAILS

Annual Design Energy (MU)				3353.00	Cost including IDC (Rs. crore)			6433.01	O&M Charges					2.50%	
Losses (%)				1.00%	Equity (Rs. crore) (30%)			1929.90	O&M Charges escalation					6.64%	
Free Power (%)				12.00%	Debt (Rs. crore)			4503.11	Return on Equity (RoE)					15.50%	
Net Saleable Energy (MU)				2921.13	Weighted Average Interest rate			9.14%	Rate of MAT					21.342%	
Land cost (Rs. crore)				45.18	Interest on W.C.			12.60%	Pre-tax RoE with MAT					19.705%	
Cost of R & R (Rs. crore)				0	Rate of depreciation			5.46%	Rate of normal tax					34.608%	
Discounting factor				13.10%							Pre-tax RoE with normal tax			23.703%	
Year	Loan	Rs. in crore					Interest on Working Capital (Rs. crore)				Annual Fixed Charges (Rs.)	Tariff (Rs / unit)	Annual Energy (MU)		
		Loan Repaym ent	Interest on Loan	Depreciat ion	RoE	O&M Charges	O&M for one month	Two month's receivable	Mainte- nance Spares	Interest					
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
1	4503.11	348.78	395.59	348.78	457.44	160.83	13.40	232.78	24.12	34.06	1396.69	4.78	2921.13		
2	4154.33	348.78	363.72	348.78	457.44	171.50	14.29	229.23	25.73	33.92	1375.36	4.71	2921.13		
3	3805.56	348.78	331.84	348.78	457.44	182.89	15.24	225.80	27.43	33.83	1354.78	4.64	2921.13		
4	3456.78	348.78	299.97	348.78	457.44	195.04	16.25	222.50	29.26	33.77	1334.99	4.57	2921.13		
5	3108.00	348.78	268.09	348.78	457.44	207.99	17.33	219.34	31.20	33.75	1316.05	4.51	2921.13		
6	2759.23	348.78	236.22	348.78	457.44	221.80	18.48	216.34	33.27	33.78	1298.02	4.44	2921.13		
7	2410.45	348.78	204.35	348.78	457.44	236.52	19.71	213.49	35.48	33.85	1280.95	4.39	2921.13		
8	2061.68	348.78	172.47	348.78	457.44	252.23	21.02	210.82	37.83	33.98	1264.90	4.33	2921.13		
9	1712.90	348.78	140.60	348.78	457.44	268.98	22.41	208.33	40.35	34.16	1249.95	4.28	2921.13		
10	1364.13	348.78	108.73	348.78	457.44	286.84	23.90	206.03	43.03	34.39	1236.18	4.23	2921.13		
11	1015.35	348.78	76.85	348.78	457.44	305.88	25.49	203.94	45.88	34.69	1223.65	4.19	2921.13		
12	666.58	348.78	44.98	348.78	457.44	326.19	27.18	202.07	48.93	35.05	1212.45	4.15	2921.13		
13	317.80	67.99	25.94	67.99	457.44	347.85	28.99	154.83	52.18	29.73	928.96	3.18	2921.13		
14	249.81	67.99	19.72	67.99	457.44	370.95	30.91	157.82	55.64	30.79	946.90	3.24	2921.13		
15	181.82	67.99	13.51	67.99	457.44	395.58	32.97	161.08	59.34	31.93	966.45	3.31	2921.13		
16	113.83	67.99	7.30	67.99	457.44	421.85	35.15	164.62	63.28	33.14	987.72	3.38	2921.13		
17	45.85	45.85	2.09	67.99	457.44	449.86	37.49	168.64	67.48	34.47	1011.86	3.46	2921.13		
18	0.00	0.00	0.00	67.99	457.44	479.73	39.98	173.52	71.96	35.97	1041.13	3.56	2921.13		
19	0.00	0.00	0.00	67.99	457.44	511.58	42.63	179.10	76.74	37.61	1074.63	3.68	2921.13		
20	0.00	0.00	0.00	67.99	457.44	545.55	45.46	185.06	81.83	39.36	1110.34	3.80	2921.13		
21	0.00	0.00	0.00	67.99	457.44	581.78	48.48	191.41	87.27	41.22	1148.43	3.93	2921.13		
22	0.00	0.00	0.00	67.99	457.44	620.41	51.70	198.18	93.06	43.21	1189.05	4.07	2921.13		
23	0.00	0.00	0.00	67.99	457.44	661.60	55.13	205.39	99.24	45.33	1232.37	4.22	2921.13		
24	0.00	0.00	0.00	67.99	457.44	705.53	58.79	213.09	105.83	47.59	1278.56	4.38	2921.13		
25	0.00	0.00	0.00	67.99	457.44	752.38	62.70	221.30	112.86	50.00	1327.82	4.55	2921.13		
26	0.00	0.00	0.00	67.99	457.44	802.34	66.86	230.06	120.35	52.58	1380.35	4.73	2921.13		
27	0.00	0.00	0.00	67.99	457.44	855.61	71.30	239.39	128.34	55.32	1436.37	4.92	2921.13		
28	0.00	0.00	0.00	67.99	457.44	912.43	76.04	249.35	136.86	58.24	1496.10	5.12	2921.13		
29	0.00	0.00	0.00	67.99	457.44	973.01	81.08	259.97	145.95	61.36	1559.81	5.34	2921.13		
30	0.00	0.00	0.00	67.99	457.44	1037.62	86.47	271.29	155.64	64.69	1627.74	5.57	2921.13		
31	0.00	0.00	0.00	67.99	457.44	1106.52	92.21	283.36	165.98	68.24	1700.19	5.82	2921.13		
32	0.00	0.00	0.00	67.99	457.44	1179.99	98.33	296.24	177.00	72.02	1777.44	6.08	2921.13		
33	0.00	0.00	0.00	67.99	457.44	1258.34	104.86	309.97	188.75	76.05	1859.83	6.37	2921.13		
34	0.00	0.00	0.00	67.99	457.44	1341.90	111.82	324.61	201.28	80.35	1947.68	6.67	2921.13		
35	0.00	0.00	0.00	67.99	457.44	1431.00	119.25	340.23	214.65	84.94	2041.37	6.99	2921.13		
		4503.11	2711.97	5749.05											

NPV of Annual Fixed Charges (Rs. crore) = 9624.59 NPV energy (MU) = 21998.75 Levellised Tariff = 4.38

Loans	Amount	Rate	Interest
PSU Bonds XIV th series	2287.37	9.60%	219.59
PSU Bonds XV th series	540.26	9.15%	49.43
PSU Bonds XVI th series	600.00	8.69%	52.14
PSU Bonds XVII th series	300.00	7.81%	23.43
PSU Bonds XVIII th series	169.55	7.76%	13.16
SBI Short Term Loan	259.80	9.05%	23.51
SBI Short Term Loan	120.00	8.00%	9.60
Total	4276.98		390.86
Average interest rate :		9.14%	

PARE HYDRO ELECTRIC PROJECT, ARUNACHAL PRADESH
CALCULATION OF TARIFF BASED ON PETITION DETAILS

2/2

Annual Design Energy (MU)	506.42	Cost including IDC (Rs. crore)	1604.68	O&M Charges	4.00%
Losses (%)	1.00%	Equity (Rs. crore) (30%)	481.40	O&M Charges escalation	6.64%
Free Power (%)	13.00%	Grant (Rs. crore)	0.00	Return on Equity (RoE)	15.50%
Net Saleable Energy (MU)	436.18	Debt (Rs. crore)	1123.28	Rate of MAT	21.342%
Cost of R&R (Rs. crore)	18.22	Weighted Average Interest rate	5.93%	Pre-tax RoE with MAT	19.705%
Land cost (Rs. crore)	22.31	Interest on W.C.	12.60%	Rate of normal tax	34.608%
Discounting factor	13.10%	Rate of depreciation	5.12%	Pre-tax RoE with normal tax	23.703%

Year	Loan	Rs. in crore					Interest on Working Capital (Rs. crore)				Annual Fixed Charges (Rs. crore)	Tariff (Rs / unit)	Annual Energy (MU)
		Loan Repaym ent	Interest on Loan	Depreciat ion	RoE	O&M Charges	O&M for one month	Two month's receivable	Mainte- nance Spares	Interest			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	1123.28	81.02	64.20	81.02	114.11	63.46	5.29	55.27	9.52	8.83	331.61	7.60	436.18
2	1042.26	81.02	59.39	81.02	114.11	67.67	5.64	55.19	10.15	8.94	331.13	7.59	436.18
3	961.24	81.02	54.59	81.02	114.11	72.17	6.01	55.16	10.82	9.07	330.95	7.59	436.18
4	880.22	81.02	49.79	81.02	114.11	76.96	6.41	55.18	11.54	9.22	331.08	7.59	436.18
5	799.21	81.02	44.98	81.02	114.11	82.07	6.84	55.26	12.31	9.38	331.55	7.60	436.18
6	718.19	81.02	40.18	81.02	114.11	87.52	7.29	55.40	13.13	9.55	332.37	7.62	436.18
7	637.17	81.02	35.38	81.02	114.11	93.33	7.78	55.60	14.00	9.75	333.58	7.65	436.18
8	556.15	81.02	30.57	81.02	114.11	99.52	8.29	55.86	14.93	9.96	335.19	7.68	436.18
9	475.14	81.02	25.77	81.02	114.11	106.13	8.84	56.20	15.92	10.20	337.23	7.73	436.18
10	394.12	81.02	20.97	81.02	114.11	113.18	9.43	56.62	16.98	10.46	339.73	7.79	436.18
11	313.10	81.02	16.16	81.02	114.11	120.70	10.06	57.12	18.10	10.75	342.73	7.86	436.18
12	232.09	81.02	11.36	81.02	114.11	128.71	10.73	57.71	19.31	11.06	346.25	7.94	436.18
13	151.07	19.65	8.37	19.65	114.11	137.26	11.44	48.25	20.59	10.11	289.50	6.64	436.18
14	131.42	19.65	7.21	19.65	114.11	146.37	12.20	49.65	21.96	10.56	297.89	6.83	436.18
15	111.77	19.65	6.04	19.65	114.11	156.09	13.01	51.15	23.41	11.03	306.92	7.04	436.18
16	92.12	19.65	4.88	19.65	114.11	166.45	13.87	52.77	24.97	11.54	316.63	7.26	436.18
17	72.47	19.65	3.71	19.65	114.11	177.51	14.79	54.51	26.63	12.09	327.06	7.50	436.18
18	52.82	19.65	2.55	19.65	114.11	189.29	15.77	56.38	28.39	12.67	338.27	7.76	436.18
19	33.17	19.65	1.38	19.65	114.11	201.86	16.82	58.38	30.28	13.29	350.29	8.03	436.18
20	13.53	13.53	0.40	19.65	114.11	215.26	17.94	60.56	32.29	13.96	363.38	8.33	436.18
21	0.00	0.00	0.00	19.65	114.11	229.56	19.13	63.00	34.43	14.69	378.00	8.67	436.18
22	0.00	0.00	0.00	19.65	114.11	244.80	20.40	65.67	36.72	15.47	394.03	9.03	436.18
23	0.00	0.00	0.00	19.65	114.11	261.06	21.75	68.52	39.16	16.31	411.12	9.43	436.18
24	0.00	0.00	0.00	19.65	114.11	278.39	23.20	71.56	41.76	17.20	429.35	9.84	436.18
25	0.00	0.00	0.00	19.65	114.11	296.87	24.74	74.80	44.53	18.15	448.78	10.29	436.18
26	0.00	0.00	0.00	19.65	114.11	316.59	26.38	78.25	47.49	19.17	469.51	10.76	436.18
27	0.00	0.00	0.00	19.65	114.11	337.61	28.13	81.94	50.64	20.25	491.61	11.27	436.18
28	0.00	0.00	0.00	19.65	114.11	360.03	30.00	85.86	54.00	21.40	515.18	11.81	436.18
29	0.00	0.00	0.00	19.65	114.11	383.93	31.99	90.05	57.59	22.63	540.32	12.39	436.18
30	0.00	0.00	0.00	19.65	114.11	409.42	34.12	94.52	61.41	23.95	567.13	13.00	436.18
31	0.00	0.00	0.00	19.65	114.11	436.61	36.38	99.29	65.49	25.35	595.71	13.66	436.18
32	0.00	0.00	0.00	19.65	114.11	465.60	38.80	104.37	69.84	26.84	626.20	14.36	436.18
33	0.00	0.00	0.00	19.65	114.11	496.52	41.38	109.78	74.48	28.43	658.70	15.10	436.18
34	0.00	0.00	0.00	19.65	114.11	529.48	44.12	115.56	79.42	30.13	693.37	15.90	436.18
35	0.00	0.00	0.00	19.65	114.11	564.64	47.05	121.72	84.70	31.94	730.34	16.74	436.18
		1123.28	487.88	1424.13									

NPV of Annual Fixed Charges (Rs. crore) =	2573.12	NPV energy (MU) =	3284.82	Levelling Tariff =	7.83
---	---------	-------------------	---------	--------------------	------

Loans	Amt (crs)	Rate	Interest
KfW Loan	587.07	4.82%	28.30
KfW Loan	160.00	2.05%	3.28
PSU Bonds XVI th series	300.00	8.69%	26.07
SBI Short Term loan	115.47	9.05%	10.45
SBI Short Term loan	40.00	8.00%	3.20
	1202.54		71.30
Average interest rate :		5.93%	

पूर्वोत्तर 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)

Annex. - 8.1

	19/02/2018	25/02/2018	तक	आज की तारीख में/As on 08/03/2018			Figs in Lacs
घटक/Constituents	टोटल/TOTAL (Till wk-47 of FY17-18)		टोटल/TOTAL (Disb. Till wk-47 Part)		टोटल / TOTAL		O/S PAYABLE >13 WEEKS
	पूल के लिए देय / Payable to Pool	पूल से प्राप्त / Receivable from Pool	भुगतान किया / Paid	प्राप्त / Received	O/S Payable to Pool	O/S Receivable from Pool	
अरुणाचल प्रदेश / Ar. Pradesh	10415.86	1833.32	9426.12	1833.32	989.75	0.00	0.00
असम / Assam	37046.54	127.26	36724.48	127.26	322.05	0.00	0.00
मणिपुर / Manipur	2274.63	1408.99	2274.63	1408.96	0.00	0.03	0.00
मेघालय / Meghalaya	2232.25	4186.82	2232.25	4170.15	0.00	16.67	0.00
मिजोरम / Mizoram	4771.43	642.82	4662.06	634.70	109.37	8.12	26.38
नगालैंड / Nagaland	5488.74	459.96	5396.36	459.96	92.38	0.00	0.00
त्रिपुरा / Tripura	11115.01	1296.87	11040.36	1294.62	74.65	2.26	0.00
लोकतक / Loktak	58.10	486.55	58.04	483.56	0.06	2.99	0.00
नीपको / NEEPCo	1284.11	9875.27	1283.87	9874.92	0.24	0.35	0.00
ई आर / ER	43429.05	176300.69	41584.04	175566.05	1845.01	734.64	
ओटीपीसी/ OTPC	1858.76	4807.43	1858.57	4807.36	0.18	0.07	0.00
एनटीपीसी / NTPC	2823.58	2831.62	2776.78	2831.62	46.80	0.00	0.00
एन आर / NR	144569.55	46994.05	143279.70	45041.84	1289.85	1952.21	
बि.एन.सि / BNC	61.47	134.92	61.45	134.89	0.02	0.03	0.00
VAE	5.67	147.84	0.00	0.00	5.67	147.84	0.00
टोटल / TOTAL	267434.75	251534.40	262658.71	248669.19	4776.04	2865.21	
PSDF		15900.36		6917.98		1910.83	

REACTIVE POOL ACCOUNT DETAILS : 2017-18

As on 07.03.18

Upto Week -46

All figures in ₹

Annexure-I		PREVIOUS YEAR		CURRENT YEAR					Int. Status sheet		Formula
		Paste D Value		AS PER THIS WORKBOOK							
Sl. No	States	Outstanding Payable Amt. (upto 02.04.17)	Outstanding Recivable 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 31.03.17)	Reactive int. Receivable o/s (Upto 31.03.17)	Outstanding payable(+) / receivable (-)
		1	2	3	4	5	6		7	8	9
1	Ar. Pradesh	1878916	0	1862471	1487243	0	0		373540	0	2627684
2	Assam	411388	0	5197848	0	1493204	1846598		0	1394106	4568524
3	Manipur	5897789	0	189120	7603893	428148	0		2173872	0	228740
4	Meghalaya	0	5432805	0	0	7927472	8790047		687780	0	-3882450
5	Mizoram	560572	0	2156829	1850571	297	0		48458	0	914991
6	Nagaland	91075	0	966840	117823	92154	0		8476	0	856414
7	Tripura	521173	0	1043411	1591935	182518	0		55347	0	-154523
8	PSDF		3928108	0	0	1292727	2014820			1953367	-5159381
	TOTAL	9360913	9360913	11416520	12651465	10123793	10636645		3347473	3347473	0



Report
or
Scheduling, Accounting, Metering
or
Settlement
or
Transactions in Electricity

[SAMAST]

July 2016

SAMAST

Adopted by the Technical
Committee of the Forum of
Regulators
on 15 July 2016

Endorsed by the
Forum of Regulators
on 22 July 2016

Implementation in the NER States

**Presentation before CERC by
SAMAST Group, NER
Date: 19.03.2017**

[illegible]

doi:10.1017/S0022292412001911

25th June, 2017

1. United Kingdom (UK) Food, Drug, and Cosmetic Act of 1938, as Amended (London, England: HMSO, 1973).
2. Minnesota Department of Health, *Minnesota Department of Health, Minnesota, 1980* (St. Paul, MN: Minnesota Department of Health, 1981).
3. Minnesota Department of Health, *Minnesota Department of Health, Minnesota, 1980* (St. Paul, MN: Minnesota Department of Health, 1981).
4. Minnesota Department of Health, *Minnesota Department of Health, Minnesota, 1980* (St. Paul, MN: Minnesota Department of Health, 1981).
5. Minnesota Department of Health, *Minnesota Department of Health, Minnesota, 1980* (St. Paul, MN: Minnesota Department of Health, 1981).
6. Minnesota Department of Health, *Minnesota Department of Health, Minnesota, 1980* (St. Paul, MN: Minnesota Department of Health, 1981).
7. Minnesota Department of Health, *Minnesota Department of Health, Minnesota, 1980* (St. Paul, MN: Minnesota Department of Health, 1981).
8. Minnesota Department of Health, *Minnesota Department of Health, Minnesota, 1980* (St. Paul, MN: Minnesota Department of Health, 1981).
9. Minnesota Department of Health, *Minnesota Department of Health, Minnesota, 1980* (St. Paul, MN: Minnesota Department of Health, 1981).
10. Minnesota Department of Health, *Minnesota Department of Health, Minnesota, 1980* (St. Paul, MN: Minnesota Department of Health, 1981).

2.4.4. Effect of stress on the water impermeability of EACNTs in SEA

33. NAME: Member of the 12th meeting of the Technical Committee on Implementation of Fostering by Relatives at the State level held under the Chairmanship of the A.S. Balak, Member, CPC in Bangalore on 20th May 2017 (word version, PDF version attached)

In 1996, the company was advised by the A. S. Natsi, Member, CIRC during his visit to Gallepol 0042247, a group comprising of the representatives of NIGAP and HSYBIC is formed as below is another representative of NIGAP in 1996.

4. Gail R. Sawadoff et al., *Environmental Health Perspectives*, 1989.

[illegible]

Thanking you

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Yours faithfully,
 (Sd/-) _____
 (Dr. K. Sridhar)
 Member Secretary

SAMAST Status in NER

Regional coordination ; Series of meetings held with NER States involving vendors Secure Meters, TCS, Kalkitech, MB Controls etc.

- ▶ **Assam: Five meetings**

(i) 24.08.2017 (ii) 30.08.2017 (iii) 07.09.2017 (iv) 22.09.2017 (v) 12.01.2018

- **Meghalaya: Two meetings**

(i) 22.09.2017 (ii) 11.01.2018

- ▶ DPR and other related documents from other Regions referred to prepare draft DPR for NER States.
- ▶ Assam and Meghalaya first two States to prepare DPR.

SAMAST Status in NER

- | | |
|---------------------------------|--------------|
| › <u>Meeting in Mizoram</u> | : 05.01.2018 |
| › <u>Meeting in Tripura</u> | : 07.02.2018 |
| › <u>Meeting in Manipur</u> | : 08.02.2018 |
| › <u>Meeting in Nagaland</u> | : 09.03.2018 |
| › <u>Meeting in Ar. Pradesh</u> | : Pending |

- Draft DPR template discussed with all the six States.
- SLDCs, STUs familiarized with SAMAST.

SAMAST Status in NER

- › 5-minute metering agreed to be implemented as advised by FOR Technical Committee. Meter cost proposed to be included for funding from PSDF.
- › Common DPR for all NER States.
- › States to finalize individual DPR as per the template and submit to NERPC Secretariat.

SAMAST Status in NER

- › Status of DPR preparation by States:
 - › Assam: DPR approved by AEGCL Board
 - › Meghalaya: DPR prepared & submitted to MePTCL Board
 - › Tripura : DPR to be completed by 31.03.18
 - › Manipur : DPR to be completed by 31.03.18
 - › Mizoram : DPR to be completed by 31.03.18
 - › Nagaland : DPR to be completed by 31.03.18
 - › Ar. Pradesh: Process to start

NERPC Secretariat to moderate and freeze common DPR and submit for PSDF funding.

SAMAST Status in NER

- › During tendering, Uniform Technical specs for all utility softwares:
 1. Scheduling software,
 2. Meter data processing software,
 3. Energy Accounting Software,
 4. Deviation/Reactive Accounting software,
 5. Open Access software,
 6. AMR software.
- › It will enable implementation of uniform system in all the States across the Region.

SAMAST Status in NER

Tentative estimated Project Cost excluding utility softwares:

- › Rs. 12-14 Crores (Assam)
- › Rs. 6-8 Crores (Other States)
- › Total for NER: Rs. 60 Crores (Approx.)
- › For utility software, vendors quoting around Rs. 7-8 Crores for one State. In case of combined procurement, it can be optimised and reduced substantially.

SAMAST Status in NER

- › Tentative Project Cost including utility software : Rs. 100 Cr.
- › Considering Rs. 40 Crores for cost of utility software.
- › Common tendering by NERPC has been agreed in OCC and CCM of NERPC which will enable:
 1. Optimisation of project cost
 2. Availability of vendors which is difficult in small States
 3. Better co-ordination
 4. Smooth implementation (like ULDC scheme)
 5. Enables hand holding

SAMAST Status in NERCommon tendering, procurement, implementation?

To be approved by TCC/RPC

Direction of Hon'ble Commission for enabling as PSDF fund released to State only.

Implementation in all seven States of NER possible only through unified process.

SAMAST Status in NER

For effective implementation of SAMAST In States:

- › Ring fencing of SLDCs (done only in Meghalaya)
- › Adequate Human Resources
- › Certification of LDC personnel and incentive
- › Exclusive Market Operation and IT team

FOR-Technical Committee to impress upon SERCs.

Declared Capacity and Implemented Schedule

Date 18.03.2018

TIME BLOK	TALST2 AVAIL	TALST2 SCH	TSTPP-I AVAIL	TSTPP-I ENTIT	TSTPP-I SCH	KHSTPP-I AVAIL	KHSTPP-I ENTIT	KHSTPP-I SCH
1	1920	1881.56	910	14.23	14.23	565	7.81	7.81
2	1920	1881.56	910	14.23	14.23	565	7.81	7.81
3	1920	1881.56	910	14.23	14.23	555	7.67	7.67
4	1920	1881.56	910	14.23	14.23	555	7.67	7.67
5	1920	1881.56	910	14.23	14.23	555	7.67	7.67
6	1920	1881.56	910	14.23	14.23	555	7.67	7.67
7	1920	1885	910	14.23	14.23	555	7.67	7.67
8	1920	1885	910	14.23	14.23	555	7.67	7.67
9	1920	1885	930	14.53	14.53	555	7.67	7.67
10	1920	1885	930	14.53	14.53	555	7.67	7.67
11	1920	1885	930	14.53	14.53	555	7.67	7.67
12	1920	1885	930	14.53	14.53	555	7.67	7.67
13	1920	1885	930	14.53	14.53	555	7.67	7.67
14	1920	1885	930	14.53	14.53	555	7.67	7.67
15	1920	1885	930	14.53	14.53	555	7.67	7.67
16	1920	1885	930	14.53	14.53	555	7.67	7.67
17	1920	1885	930	14.53	14.53	555	7.67	7.67
18	1920	1885	930	14.53	14.53	555	7.67	7.67
19	1920	1885	930	14.53	14.53	555	7.67	7.67
20	1920	1885	930	14.53	14.53	555	7.67	7.67
21	1920	1885	930	14.53	14.53	555	7.67	7.67
22	1920	1885	930	14.53	14.53	555	7.67	7.67
23	1920	1885	930	14.53	14.53	555	7.67	7.67
24	1920	1885	930	14.53	14.53	555	7.67	7.67
25	1920	1885	930	14.53	14.53	555	7.67	7.67
26	1920	1885	930	14.53	14.53	555	7.67	7.67
27	1920	1885	930	14.53	14.53	555	7.67	7.67
28	1920	1885	930	14.53	14.53	555	7.67	7.67
29	1920	1885	930	14.53	14.53	555	7.67	7.67
30	1920	1885	930	14.53	14.53	555	7.67	7.67
31	1920	1885	930	14.53	14.53	555	7.67	7.67
32	1920	1885	930	14.53	14.53	555	7.67	7.67
33	1920	1885	930	14.53	14.53	555	7.67	7.67
34	1920	1885	930	14.53	14.53	555	7.67	7.67
35	1920	1885	930	14.53	14.53	555	7.67	7.67
36	1920	1885	930	14.53	14.53	555	7.67	7.67
37	1920	1885	930	14.53	14.53	555	7.67	7.67
38	1920	1885	930	14.53	14.53	555	7.67	7.67
39	1920	1885	880	13.75	13.75	555	7.67	7.67
40	1920	1885	880	13.75	13.75	555	7.67	7.67

41	1920	1885	880	13.75	13.75	555	7.67	7.67
42	1920	1885	880	13.75	13.75	555	7.67	7.67
43	1920	1885	880	13.75	13.75	555	7.67	7.67
44	1920	1885	880	13.75	13.75	555	7.67	7.67
45	1920	1885	880	13.75	13.75	555	7.67	7.67
46	1920	1885	880	13.75	13.75	555	7.67	7.67
47	1920	1785	880	13.75	13.75	555	7.67	7.67
48	1920	1685	910	14.23	14.23	555	7.67	7.67
49	1920	1785	910	14.23	14.23	555	7.67	7.67
50	1920	1685	910	14.23	14.23	555	7.67	7.67
51	1920	1665.58	910	14.23	14.23	555	7.67	3.88
52	1920	1765.58	910	14.23	14.23	555	7.67	3.88
53	1920	1865.58	910	14.23	14.23	555	7.67	3.88
54	1920	1765.58	910	14.23	14.23	555	7.67	4.83
55	1920	1731.56	910	14.23	14.23	555	7.67	4.83
56	1920	1731.56	910	14.23	14.23	555	7.67	4.83
57	1920	1731.56	910	14.23	14.23	555	7.67	3.88
58	1920	1631.56	910	14.23	14.23	555	7.67	3.88
59	1920	1531.56	910	14.23	14.23	555	7.67	3.88
60	1920	1512.14	910	14.23	14.23	555	7.67	3.88
61	1920	1562.14	910	14.23	14.23	555	7.67	7.67
62	1920	1512.14	910	14.23	14.23	555	7.67	7.67
63	1920	1512.14	910	14.23	14.23	555	7.67	7.67
64	1920	1512.14	910	14.23	14.23	555	7.67	7.67
65	1920	1612.14	910	14.23	14.23	555	7.67	7.67
66	1920	1712.14	910	14.23	14.23	555	7.67	7.67
67	1920	1665.58	900	14.07	14.07	555	7.67	7.67
68	1920	1765.58	900	14.07	14.07	555	7.67	7.67
69	1920	1865.58	900	14.07	14.07	555	7.67	7.67
70	1920	1885	900	14.07	14.07	555	7.67	7.67
71	1850	1850	900	14.07	14.07	555	7.67	7.67
72	1850	1850	900	14.07	14.07	555	7.67	7.67
73	1920	1750	900	14.07	14.07	555	7.67	7.67
74	1920	1850	900	14.07	14.07	555	7.67	7.67
75	1920	1750	920	14.38	14.38	555	7.67	7.67
76	1920	1850	920	14.38	14.38	555	7.67	7.67
77	1920	1885	920	14.38	14.38	555	7.67	7.67
78	1920	1885	920	14.38	14.38	555	7.67	7.67
79	1920	1885	920	14.38	14.38	555	7.67	7.67
80	1920	1885	920	14.38	14.38	555	7.67	7.67
81	1920	1885	920	14.38	14.38	555	7.67	7.67
82	1920	1885	920	14.38	14.38	555	7.67	7.67
83	1920	1885	920	14.38	14.38	555	7.67	7.67
84	1920	1885	920	14.38	14.38	555	7.67	7.67
85	1920	1885	920	14.38	14.38	555	7.67	7.67
86	1920	1885	942.5	14.73	14.73	555	7.67	7.67
87	1920	1885	942.5	14.73	14.73	555	7.67	7.67

88	1920	1885	942.5	14.73	14.73	555	7.67	7.67
89	1920	1885	942.5	14.73	14.73	555	7.67	7.67
90	1920	1885	942.5	14.73	14.73	555	7.67	7.67
91	1920	1885	942.5	14.73	14.73	555	7.67	7.67
92	1920	1885	942.5	14.73	14.73	555	7.67	7.67
93	1920	1885	942.5	14.73	14.73	555	7.67	7.67
94	1920	1885	942.5	14.73	14.73	555	7.67	7.67
95	1920	1885	942.5	14.73	14.73	555	7.67	7.67
96	1920	1885	942.5	14.73	14.73	555	7.67	7.67
T(MU)	46.05	43.94	22.02	0.34	0.34	13.33	0.18	0.18