



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/2016/6052-98

Dated: 19th February 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 34th CC meeting held on 24/01/2018 at "Hotel Grand Palace, B. G. Road, New Balibat, Jorhat, Assam.

Please find enclosed herewith the minutes of the 34th Commercial Committee Meeting held at "Hotel Grand Palace, B. G. Road, New Balibat, Jorhat, Assam on 24th January 2018 for your kind information and further necessary action.

Encl.: As above

भवदीय / Yours faithfully,

लिंगखोइ / B. Lyngkhai
निदेशक / 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


निदेशक / Director/S.E

North Eastern Regional Power Committee

MINUTES OF THE 34th COMMERCIAL COORDINATION

SUB-COMMITTEE MEETING OF NERPC

Date : 24/01/2018 (Wednesday)

Time : 10:30 hrs

Venue : Hotel Grand Palace, B. G. Road, New Balibat, Jorhat, Assam

The 34th CC Meeting of NERPC was held on 24th January 2018 at Jorhat, Assam, under the aegis of Assam Power Distribution Corporation Limited, Assam. The list of participants in the 34th CC meeting is attached at **Annex. – I**.

Shri Ajanta Kumar Goswami, Chief General Manager, APDCL delivered welcome address which was followed by presentation of flower bouquets to all delegates of the 34th CC meeting. In his brief address, Shri A. K. Goswami extended a warm welcome to all participants and expressed gratitude to NERPC for giving APDCL the opportunity to host the 34th CCM. He stated that APDCL is delighted to host the 34th CCM at Jorhat, a city that had served as the last capital of Ahom Kingdom and also home to many historical monuments of Assamese culture. He appreciated the role of NERPC in felicitating the stable and smooth operation of the integrated grid and economic & efficient operation of the NER power system.

Shri P. K. Mishra, Member Secretary & Chairman, Commercial Sub Committee welcomed all the participants of the 34th CC Meeting. He felicitated and expressed gratitude to APDCL for making excellent arrangement for the meeting and for providing comfortable stay for all the delegates. He impressed upon the members that constituents should make sure to send their representatives to subcommittee meetings so that important issues could be mutually discussed and settled without holding them in abeyance. While expressing disappointment with the absence of Ar. Pradesh, Manipur, Meghalaya, Mizoram and Nagaland, Member Secretary, NERPC warned that if utilities/power departments do not participate in the various subcommittee meetings of NERPC, request for shutdown of their elements would not be entertained in future. Shri Mishra also stated that in order to encourage participation and for the convenience of utilities, commercial committee meetings are held in the host states and even in other region sometimes for exposure and cultural interaction. He requested all members to kindly support and co operate without which NERPC Secretariat alone would not be able to bring desired level of development in the NER power sector.

Shri B. Lyngkhoi, Director (C&O), NERPC briefed the CC members on the "General Network Access (GNA)" soon to be introduced by CERC with a ppt presentation (attached at **Annex.-II**). He requested all utilities to study the draft regulation by CERC and share their comments. He regretted to inform that none of NER states has participated workshop/discussion on GNA held in New Delhi in the recent past. He informed the forum that a subgroup has been formed by NERPC to consolidate the comments and views of all stakeholders in the region and soon a special meeting will be held in this regard. He requested all utilities to send their concerned officials to the above meeting. He further informed that the consolidated comments & views of NER Constituents will be communicated to CERC.

The 34th CCM also took the opportunity to bid farewell to Shri Ajanta Kumar Goswami, CGM, APDCL who was retiring on superannuation on 31st January 2018. NERPC forum felicitated him with a memento in honor and appreciation of his illustrious career and vast contribution in the NER power sector.

In his brief vote of thanks, Shri S. M. Aimol, Dy. Director, NERPC expressed immense gratitude to APDCL/Assam, for hosting the 34th CCM with sincerity and dedication. On behalf of NERPC Secretariat, he acknowledged the grandeur arrangement made by APDCL for the comfort of delegates and for successful conduct of the 34th CCM. He also thanked all delegates and everyone involved in connection with the meeting for their cooperation, support and active participation for successful conduct of the 34th Commercial Committee meeting.

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

The following are the decisions taken in the 34th Commercial Committee meeting:

C O N F I R M A T I O N O F M I N U T E S

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

Director/SE (C) informed that the minutes of the 33rd CC meeting held at "Spring Valley Resort", Sonapur, Assam on the 25th August 2017 was circulated vide No.: NERPC/COM/CC_Min/2016/3124-64 dated 19th September 2017.

Since no comments/observations were received from the constituents, the sub-committee confirmed the minutes of 33rd 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 16.01.2018 is as given below:

Constituents	Status of Payment	Constituents	Status of Payment
NTPC	Payment Received	Ar. Pradesh	Payment Received
NHPC	DUE	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	DUE

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

Deliberation of the Sub-Committee

NHPC informed that payment has been released on 17/01/2018. NEEPCO informed that payment is being processed and will be released soon. Assam and Tripura informed that they will pay immediately. All other concerned constituents were requested to pay their respective amount by February 2018 as the financial year is almost over.

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

Manipur and Nagaland were not represented in the meeting. It was decided that NERPC Secretariat would send them reminder letters and follow it up.

The Sub-committee noted as above.

Action: NERPC, Manipur & Nagaland.

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

The Sub-committee noted as above.

Action: NTPC

3. AGENDA FROM NEEPCO

3.1 *Signing of PPA for NEEPCO's 600 MW Kameng Hydro Electric Project in Arunachal Pradesh.*

It is observed that despite several reminders through letters as well as through discussions at a number of meetings of this forum, Manipur, Mizoram and Tripura are yet to respond to NEEPCO's request for signing PPAs for the Kameng HEP. In this context it is brought to the notice of this forum that the project is scheduled to be commissioned in March 2018.

Since the project is on the verge of completion and it is necessary to conclude all commercial formalities before declaring COD, Manipur, Mizoram and Tripura are requested to kindly communicate within **10th January 2018** their consent or otherwise to sign the PPA so that NEEPCO may proceed further on the matter suitably. In the event no response is received within 10th January 2018 it will be assumed to be refusal to accept the shares allocated to these three beneficiary states from the project and NEEPCO will inform the Ministry of Power, Government of India accordingly.

The house may deliberate on this issue and take a decision.

Deliberation of the Sub-Committee

Tripura representative informed that the PPA in respect of Kamemg HEP is under examination by the government. The state government is still examining various aspect of the project such as provisional tariff, completion time etc.

DGM (Comml), NEEPCO informed that the project is in the verge of completion and therefore the commercial formalities are required to be firmed up. He further stated that the signing of PPA should not be delayed any further.

The forum decided that Tripura should expedite for signing of the PPA of Kameng HEP and intimate their decision at the earliest so that NEEPCO could take appropriate action.

The forum suggested NEEPCO to communicate once again to all concerned beneficiaries ie, Manipur, Mizoram and Tripura to intimate their decision on signing of PPA immediately. The forum advised that incase any of the above beneficiaries do not communicate their intention of signing of PPA by the date as specified by NEEPCO, NEEPCO may take appropriate action as deemed fit.

Director/SE, NERPC stated that NERPC Secretariat will also take up with Manipur, Mizoram & Tripura for intimating their decision regarding signing of the PPA of Kameng HEP.

Action: NEEPCO, NERPC, Manipur, Mizoram & Tripura

3.2 Comfort letters for development of NEEPCO's proposed 85 MW Mawphu Hydro Electric Project Stage-II in Meghalaya.

NEEPCO is in the process of developing the Mawphu Hydro Electric Project Stage-II (85 MW), a run-off-the river scheme, in Meghalaya for which survey & investigation has been completed and the DPR has been submitted to CEA in July 2017 for accord of Techno Economic Clearance (TEC) which is expected in few months' time. As per the DPR, the Project shall be commissioned within 55 months on obtaining Investment Approval from the Govt. of India. The tentative completion of the Project is likely by June, 2023. Approval has been accorded by Govt. of India in June, 2017 to start pre-construction activities of the Project and the same are being taken up.

The Mawphu HEP St-II is located on Umiew River in the East Khasi Hills district of Meghalaya. In terms of the DPR submitted to the CEA, the Design Energy of the plant is estimated to be 331.09 MU (90 % dependable year with 95 % plant availability) with 1st year and levellised tariffs of Rs. 6.34/unit and Rs. 5.94/unit respectively. The anticipated completion cost is Rs. 907.36 crore including IDC at July 2016 price levels.

Clearance of the DPR is held up for want of comfort letters from the project beneficiaries. Letters have been sent to all constituent states of NERPC on 6th December 2017 requesting for comfort letters.

Therefore, all member states of this house are requested to kindly expedite the issuance of comfort letters for requirement of power from this Project, which will

enable NEEPCO to obtain the Investment Decision of the Project (CCEA clearance) to be accorded by the Govt. of India.

The house may deliberate on this issue and take a decision.

Deliberation of the Sub-Committee

NEEPCO was advised to follow up the matter with the beneficiaries for their general views on the project and also request them to send the comfort letters for the project.

Action: NEEPCO

4. AGENDA ITEMS FROM NERTS/POWERGRID

4.1 Outstanding dues:

The total outstanding of POWERGRID's NER beneficiaries as on 10.01.2017 is as under-
All Figures in INR Crores

DIC	Total Outstanding	Outstanding more than 60 days	Average billing	Remarks
Ar. Pradesh	4.95	0.00	3.25	-
AEGCL (Assam)	74.36	0.00	35.00	-
Manipur	10.17	0.00	3.85	-
MeECL (Meghalaya)	22.16	12.71	3.50	06 months receivables
Mizoram	8.95	0.00	3.80	-
Nagaland	-0.01	0.00	3.35	-
TSECL (Tripura)	0.75	0.68	3.50	-
Total	130.04	17.01	56.25	-

MeECL (Meghalaya) 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 of MeECL. As no representative from MeECL has attended the meeting, the forum decided that, a special meeting with higher officials of Meghalaya will be arranged by NERPC to discuss all outstanding issues of MeECL after the state election and new Govt. is formed.

Further, on the request by NERTS/POWERGRID to TSECL regarding payment of SCADA bills amounting to 0.75 Crs, TSECL representative informed that the outstanding amount of SCADA bills of NERTS will be cleared by TSECL shortly.

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 (10.01.18) 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	Arunachal 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	14.02.18	271.00	108.73	416.86

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

Deliberation of the Sub-Committee

All concerned utilities were requested to enhance/renew the requisite amount of LC in line with CERC stipulation.

5. AGENDA ITEMS FROM NHPC

5.1 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 33rd CCM of NERPC held on 25.08.2017 wherein Arunachal Pradesh informed that they are

waiting the clearance from the state government. Once the file is approved by the government, they will sign the PPA. They also informed that they have not received copy of PPA in respect of Tawang HEPs. Thereafter, we have sent reminders on 12.09.2017, 23.11.2017. Also, copy of revised draft PPA for Tawang HEPs was sent vide letter 24.11.2017. In response, Arunachal Pradesh intimated NHPC to pursue the matter of PPA in respect of Subansiri Lower HEP directly with the Government of Arunachal Pradesh and confirmed that revised draft copy of PPA in respect of Tawang HEPs has been received by them which is under process at their end.

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 - I & II will also be signed on similar lines.

(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 HE Projects (Stage-I & 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-I & II HE Projects before the next CCM. Thereafter, NHPC consistently sent reminders vide letter dated 07.09.2017, 28.09.2017 and 08.11.2017 to MSPDCL but till date, we have not received any reply/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

(i & ii) As Arunachal Pradesh and Manipur were not represented in the meeting, the status could not be obtained and issue could not be further discussed.

Director (CommI), NERPC informed that a meeting with Ar. Pradesh officials will be organized soon to discuss all issues pertaining to Ar. Pradesh.

5.2 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 ₹ 8 Crores since Mar'2017 against total outstanding dues of ₹26.92 Crores. As on date, an amount of ₹ **26.92 Crores**

(Including surcharge of ₹ 13.39 Crores up to 31.12.2017) is payable by Meghalaya. The matter was also discussed in 33rd CCM of NERPC. After that, we have requested MeECL vide letter dated 30.08.2017, 12.09.2017, 26.09.2017, 27.09.2017, 09.10.2017, 25.10.2017, 17.11.2017, 12.12.2017 and 08.01.2018 to release the outstanding dues of NHPC as per their commitment but MeECL has not fulfilled its commitment.

During the recent meeting convened by Joint Secretary (Hydro), Ministry of Power, Govt. of India on 30.11.2017 in which no representation was made by the Meghalaya, she expressed her displeasure for not clearing the dues.

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

(ii) MSPDCL, Manipur: An amount of ₹ 10.67 Crores (including surcharge of ₹1.44 Crores up to 31.12.2017) is due for payment from MSPDCL. It is observed that MSPDCL is defaulting in timely payment of energy bills due to which late payment surcharge is accumulating continuously which is also payable as per regulation.

In view of above, MSPDCL is requested to clear their outstanding dues including surcharge i.e. ₹10.67 Crores immediately and ensure timely payment of energy bills in future.

(iii) Power & Electricity Department, Govt. of Mizoram: An amount of ₹ 2.26 Crores (including surcharge of ₹0.03 Crore up to 31.12.2017) is due for payment from Mizoram. Out of which principal amount of ₹ 0.72 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. ₹ 2.26 Crores immediately and ensure timely payment of energy bills in future.

Deliberation of the Sub-Committee

(i, ii & iii) The issues could not be discussed as Manipur, Meghalaya and Mizoram were not represented in the meeting.

However, the CC members noted the huge outstanding dues against MeECL. Director (Comml), NERPC stated that all issues including outstanding dues against MeECL will be taken up with higher officials of MeECL by NERPC Secretariat after the state election and the new Govt. is formed.

6. AGENDA ITEMS FROM OTPC**6.1 *Billing at Reduced Annual Fixed Charges (AFC) by OTPC.***

CERC had granted OTPC (PALATANA) the AFC as below vide Corrigendum Order dated 3rd May 2017, considering the additional capitalization details submitted in tariff petition to CERC by OTPC. However, due to various reasons, it seems that spends under additional capitalization in FY 2015-16, 2016-17 and 2017-18 will be reduced. As a result, to avoid any un-necessary burden to its beneficiaries, OTPC has Suo-Moto reduced the billed AFC for FY 2015-16, 2016-17, 2017-18 and FY 2018-19 as below:

(in Rs Lakhs)

Financial Year	AFC approved by CERC	AFC Estimated by OTPC
2014-15 (01-04-14 to 23-03-15)	40064.96	40064.71
2014-15 (24-03-15 to 31-03-15)	1625.07	1623.27
2015-16 (01-04-15 to 09-04-15)	1887.50	1833.57
2015-16 (10-04-15 to 31-03-16)	79296.85	77034.35
2016-17	86054.87	80257.68
2017-18	86933.98	81211.51
2018-19	87261.79	83640.08

OTPC has therefore issued credit notes to its beneficiary states and refunded the excess AFC billed during FY 2015-16 and FY 2016-17. Further, OTPC has Suo-Moto reduced the billed AFC for FY 2017-18 to Rs 812.1151 Crores.

The effect of this revision in AFC on the energy bills for the period April-September 2017 has therefore been captured by OTPC in the energy bill for month of October 2017 and necessary deductions have been done in the energy bill for month of October 2017. Subsequent monthly energy bills for FY 2017-18 are also being raised by OTPC using this reduced AFC of Rs 812.1151 Crores. Further, OTPC will submit the desired details to CERC to finalize the actual AFC during truing up for the control period of 2014-19.

This is for kind information please.

Deliberation of the Sub-Committee

The CC forum noted as above.

7. AGENDA FROM NERLDC

7.1 *Deviation charges outstanding:*

Status of Deviation charges outstanding as on 10/01/2018 is attached (**Annex.-7.1**). From the same it can be seen that Arunachal Pradesh (Rs 6.26 Crores; greater than 13 weeks Rs 18.93 Lakhs) & Manipur (Rs 1.58 Crores; greater than 13 weeks Rs 1.58 Crores)

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

Arunachal Pradesh and Manipur are required to take immediate necessary action.

Deliberation of the Sub-Committee

NERLDC representative stated that Manipur has cleared the outstanding dues. Regarding Ar. Pradesh, it was decided that the matter would be taken up with DOP, Ar. Pradesh as Ar. Pradesh was not represented in the meeting.

7.2 *Reactive Charges Outstanding:*

Status of Reactive charges outstanding as on 10/01/2018 is attached (**Annex.-7.2**). From the same it can be seen that Arunachal Pradesh - Rs 23.01 Lakhs, Assam - Rs 52.34 Lakhs, Manipur - Rs 1.01 Lakhs and Mizoram - Rs 4.57 Lakhs are major defaulters.

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

Deliberation of the Sub-Committee

It was decided that the matter would be taken up by NERLDC with respective states as all the three states were not represented in the meeting.

7.3 *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	एल सी राशि/LC Amount (Rs in Lakhs)
Ar. Pradesh	95.81
Assam	562.00
Manipur	42.13
Mizoram	58.43
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

All the entities were advised to open LC as per CERC stipulation.

7.4 SAMAST implementation in NER:

The SAMAST group formed by MS-NERPC comprising of Director-NERPC, DGM(MO)-NERLDC and representatives from States have been actively working for implementation of SAMAST mechanism in all NER States. There have been workshops in Guwahati and Shillong involving vendors like M/S Secure Meters Ltd, TCS, MB Controls, Kalkitech etc. The matter is being discussed in various for a of NERPC like OCC, CCM, TCC, RPC etc.

The status is as below:

1. Assam: DPR preparation in final stage
2. Meghalaya: DPR preparation in final stage.
3. Mizoram: SAMAST group meeting held at Aizawl on 05.01.18 and activity of DPR started.
4. Manipur and Tripura: SAMAST group visit on 29th/30th Jan'18
5. Ar. Pradesh and Nagaland: SAMAST group to visit in February'18

In case of SAMAST, scheduling and settlement at 5- min interval would be considered and meters would be procured accordingly. During 139th OCC meeting, NLDC representative agreed to consider funding of meters also from PSDF.

Commercial Committee may discuss.

Deliberation of the Sub-Committee

DGM (MO), NERLDC stated that following were agreed in 140th OCC meeting held on 19.01.2018 at Guwahati:

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 specifications 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.

OCC agreed to the above and it was decided to put up the matter to CCM, TCC/NERPC for approval.

Commercial Committee agreed to the proposition of OCC and advised SAMAST Group to go ahead with the activity of SAMAST implementation.

7.5 Implementation of 5-Minute Scheduling, Metering, Accounting and Settlement" in North Eastern Region metering issues:-

The 15-minute scheduling, metering, accounting and settlement system has been implemented in India in 2002-2003 with genesis in the CERC order on Availability Based Tariff (ABT) mechanism. Government of India (GoI) has set the Renewable Energy (RE) target of 175 GW by 2022. The need for implementing a 5-minute scheduling and settlement at the Inter State level is being felt considering the variability of load and renewables especially considering increasing RE penetration in the coming years. Worldwide, it has been recognized that shorter settlement period such as 5-minute scheduling and settlement offered a lot of advantages, particularly in terms of reduction in the requirement of reserves, robust price discovery and bringing out the value of flexibility.

FOR Technical Committee appreciated the need to move to 5-minute scheduling and settlement and formed a Sub-Group to examine the issue.

The Sub-Group in its meetings decided as below:

- All RPCs may discuss the 5-minute scheduling and settlement
- NPC to follow up the status of amendment of Metering standards with CEA and also place the required amendments as agenda item in the next NPC meeting.
- CTU to facilitate collection of the region-wise data on type, vintage and location of existing meters along with proposed procurement process.
- Need for capacity building for better forecasting and scheduling - SLDCs to coordinate with RLDCs/NLDC. Interactive sessions may be organized at different RPCs for generation of ideas and solutions.
- 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.

Commercial Committee may discuss.

Deliberation of the Sub-Committee

DGM (MO), NERLDC intimated that FOR Technical Committee formed a Sub-Group to examine the issue regarding 5-minute scheduling and settlement and the Sub-Group

in its meetings decided as below:

1. All RPCs may discuss the 5-minute scheduling and settlement
2. NPC to follow up the status of amendment of metering standards with CEA and also place the required amendments as agenda item in the next NPC meeting.
3. CTU to facilitate collection of the region-wise data on type, vintage and location of existing meters along with proposed procurement process.
4. Need for capacity building for better forecasting and scheduling - SLDCs to coordinate with RLDCs/NLDC. Interactive sessions may be organized at different RPCs for generation of ideas and solutions.
5. 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.

It was intimated that NER SAMAST group has already agreed to go for 5-minute metering in case of SAMAST IN NER. Now, a decision would have to be taken about roadmap for implementation of 5-minute metering in ISTS of NER. A presentation made on highlights of the need of 5-minute metering is attached (**Annex.-7.5**).

Commercial Committee appreciated the need to move to 5-minute metering in NER ISTS along with other regions in the country. It was decided that some capacity building measures like workshop(s) would have to be organized for familiarization on various issues. NERPC / NERLDC would do the needful on this.

7.6 Signing of Reconciliation Statement:

Status of signing of Reconciliation statement of DSM, Reactive, RRAS and Fees & Charges will be shared during the meeting. Ar. Pradesh, MSPDCL & TSECL has not signed reconciliation Statements for a substantial period.

All constituents are requested to sign all reconciliation statements.

Deliberation of the Sub-Committee

All constituents were requested to sign all reconciliation statements pertaining to DSM, Reactive, RRAS and Fees & Charges. TSECL was advised to sign DSM reconciliation which was not signed for quite some time.

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

The figures will be tabled in Commercial Committee meeting.

Deliberation of the Sub-Committee

The figures were tabled in Commercial Committee meeting.

8. AGENDA FROM APDCL

8.1 Metering/ Billing of Re-import of Kurichhu energy by Bhutan through Assam:

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 and also received payment.

However, beyond November' 2014, APDCL could not raise bill in absence of specific guidelines in the CERC Order. In this regard, a joint meeting was arranged in between NERPC and ERPC at Kolkata on 4TH January 2018 where APDCL highlighted the pending billing issue. The said Forum had a threadbare discussion on the issue and finally ERPC requested NERPC first to install requisite 15 Minutes' time block ABT compatible SEM Meter on Bhutan supply point(s) on priority basis so that the earlier energy offsetting system can be restored. Copy of the Minutes of the Meeting is enclosed as ready reference.

It is worth mentioning that, at present there are two supply points to Bhutan from Assam territory which are:

- (a) 33 KV Rangia-Samdrupjhanakar Point, which has no export since 2007-08 on continuous basis.
- (b) 11 KV Mangaldoi-Daifam Point, which is supplying energy to Bhutan.

Considering the international ramifications, APDCL therefore requests the NERPC Forum for taking necessary arrangement for installation of ABT compatible SEM Meter(s) at such international supply point(s) either by PTC or Powergrid.

Deliberation of the Sub-Committee

Director/SE (C&O), NERPC informed that, in a special meeting convened on 4th January 2018 at ERPC Kolkata, it was decided that Assam in coordination with NERPC shall give a definite commitment for installation of SEM meter at the said 33/kV lines. Once the SEM meters are installed and weekly readings are available to NERPC, the methodology of settlement of transaction of the intervening period ie, from December 2014 to the date upto which weekly meter readings are available would be discussed.

He also informed that study would be conducted to enquire about the necessity of keeping alive the interconnection between Assam and Bhutan at the level of 33/11kV,

which may not serve any useful purpose at present. He added that if it is the case so, possibility of disconnecting the above lines and terminating the agreement prevailing between Assam, PTC and Bhutan would be looked into in future.

The issue was discussed at length and it was reported that the location (ie, Bhutan supply points) where meters are required to be installed is remote and taking weekly reading would be very difficult. However, as the installation of SEM is a pre condition for settlement of past energy transaction, Assam agreed to install the SEM. Assam was advised to seek help from NERTS for arrangement of SEM meter. NERTS/POWERGRID agreed to cooperate and help Assam for arrangement of SEM and installation etc.

The forum decided to review the status in subsequent OCCM/CCM.

Action: Assam & NERPC

8.2 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 and 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.

Status of the matter may please be highlighted.

Deliberation of the Sub-Committee

Since Arunachal Pradesh was not represented in the meeting, status could not be obtained. Director (Comml), NERPC informed that a meeting with Ar. Pradesh officials will be organized soon to discuss all issues pertaining to Ar. Pradesh.

Action: Assam & NERPC

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

Assam had also another issue in the 33RD CC meeting of NERPC on mismatch of 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).

Summary statement of deviation for FY 2014 -15 is again 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

The matter was being pursued by APDCL since 2013-14. The said CC Forum resolved that NERPC & APDCL will sit together along with NERLDC to clear doubt (if any) in the REA schedules and Implemented schedules. But still the matter is pending for settlement. The NERPC secretariat is once again requested to arrange a joint reconciliation on this matter with presence NERLDC.

Deliberation of the Sub-Committee

The forum suggested APDCL to send concerned official to NERPC secretariat at Shillong and settle the issue in presence of NERLDC as already discussed in the previous CCM.

Action: Assam & NERPC

9. AGENDA FROM NTPC

9.1 Outstanding more than 60 days as on 31.12.2017 is Rs 112.02 Crore.

Sl.No	Beneficiaries	Total Outstanding in Cr.	Outstanding more than 60 days
1	MeECL, Meghalaya	115.08	105.69
4	Deptt. of Power, Mizoram	20.77	6.33
Total		135.85	112.02

Concerned beneficiaries are requested to liquidate the outstanding dues.

Deliberation of the Sub-Committee

Above beneficiaries were requested to clear the outstanding dues at the earliest.

Action: Meghalaya and Mizoram

9.2 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 concerned beneficiaries were requested to open/enhance requisite LC as per CERC regulation.

Action: All above beneficiaries

9.3 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

The forum expressed concern that in spite of the decision and commitment agreed in the NERPC Board Meeting, the same has not been adhered to. The forum once again requested NERPC to take up the issue in the next TCC/NERPC Meetings.

ANY OTHER ITEMS

10.1 Formation of RA Division

Deliberation of the Sub-Committee

Director/SE(C&O) mentioned that CERC from time to time amended/published new Regulations but most of the NER constituents are not keeping themselves updated and many times felt being let down. Hence in order to have healthy commercial activities, he requested all the utilities of NER to form a special cell consisting of dedicated members who will read and translate the Regulations in favor of their organizations.

All members appreciated the concern of NERPC and agreed to take up the matter with their management.

**DATE AND VENUE OF THE NEXT COMMERCIAL
COMMITTEE MEETING**

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

The meeting ended with thanks to the Chair.

List of Participants in the 34th CC Meeting held on 24th January 2018

S.N	Name & Designation	Organization	Contact No.	Email Address
	No Representative	Ar. Pradesh	-	-
1.	Sh. A. K. Goswami, CGM (COM), APDCL	Assam	-	-
2.	Sh. B. M. Saikia, GM, (TRC), APDCL	Assam	-	-
3.	Sh. R. Choudhury, DGM (TRC), APDCL	Assam	09435143426	rawman.ghy@gmail.com
4.	Sh. K. Goswami, Consultant, APDCL	Assam	09864020019	kumud_goswami@rediffmail.com
5.	Smt. Meena Bordoloi Choudhury, DGM (P&R)	Assam	09435048775	meena_bordoloi@yahoo.com
6.	Sh. B. Das, DGM (LDC)	Assam	09859074773	-
7.	Sh. B. C. Borah, AGM (LD-Com), AEGCL	Assam	09435119248	bimalchandrorah@gmail.com
8.	Sh. Suresh Kaimal AGM (F&A), AEGCL	Assam	09435114641	suresh11_k@rediffmail.com
9.	Sh. Parag Kalita, DM (TRC), APDCL	Assam	09706979183	paragjyotikalita@gmail.com
	No Representative	Manipur	-	-
	No Representative	Meghalaya	-	-
	No Representative	Mizoram	-	-
	No Representative	Nagaland	-	-
10.	Sh. Debabrata Pal, Sr. Manager, TSECL	Tripura	09436500244	d_pal@rediffmail.com
11.	Sh. P. C. Barman, GM (Comml)	NEEPCO	09435144141	neepcocommercial@gmail.com
12.	Sh. D. Chowdhury, DGM (Comml)	NEEPCO	09435339747	neepcocommercial@gmail.com
13.	Sh. P. K. Langer, GM (Comml.)	NHPC	09816501919	pklanger@rediffmail.com
14.	Sh. Dushyant Kumar, Mgr. (E&C), Comml.	NHPC	09717820888	dushyant@nhpc.nic.in
15.	Sh. G. C. Mohapatra, AGM (Comml.)	NTPC	09437049372	gcmohapatra@ntpc.co.in
16.	Sh. Samir Haloi, Sr. Manager (Comml)	NTPC	09437561689	samirhaloio@ntpc.co.in
17.	Sh. Arup Ch. Sarmah GM (Comml)	OTPC	09871839502	arup.sarmah@otpcindia.in
18.	Sh. A. Goswami, Executive (Comml.)	OTPC	08860488044	abhinandan.goswami@otpcindia.in

19.	Sh. P. J. Sharma Addl. GM (Comml)	PGCIL	09435734294	p.j.sharma@powergridindia.com
20.	Sh. K. J. Kalita, Sr. Engineer	PGCIL	09485191393	nerts_comml@posoco.co.in
21.	Sh. R. Sutradhar DGM (MO)	NERLDC	09436302714	rajibsutradhar1965@gmail.com
22.	Sh. S. Shadrudin, CM	NERLDC	09436335380	shadru786@gmail.com
23.	Sh. Babul Roy, Manager	NERLDC	09436335377	broy@posoco.in
24.	Sh. P. K. Mishra, Member Secretary	NERPC	09968380242	ms-nerpc@gov.in
25.	Sh. B. Lyngkhai Director/S.E (C&O)	NERPC	09436163419	brieflee.lyngkhai@gov.in
26.	Sh. S. M. Aimol Dy. Director/EE (C)	NERPC	08794002106	shialloa@yahoo.com
27.	Sh. S. Mukherjee, AEE	NERPC	08794277306	mukherjeesrijit2010@gmail.com



Draft
Central Electricity Regulatory Commission
(Grant of Connectivity and General
Network Access to the inter-State
transmission system and other related
matters) Regulations, 2017

Background

§ CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009-effective from 1.1.2010

Challenges

§ IPPs seek Connectivity for full quantum (approximately equal to IC) but LTA for less quantum- Payment liability is only for LTA quantum

§ LTA for target region due to beneficiaries not identified: no scheduling priority

§ Transaction of power through STOA- No transmission planning for STOA, MTOA.-Problem of congestion in getting Medium Term and Short Term Open Access.

§ No concept of contracted import capacity other than LTA capacity for the states. The transmission rates are calculated based on LTA capacity.

§ The generators are either abandoning their project or requesting for surrender of LTA or are rescheduling their projects or changing target region.

§ Merit Order not accounted for in planning

Other Issues with prevailing Connectivity Regulations

- § Upcoming realities of availability of cheaper power
- § Issues related with upcoming renewables
- § Provisions related with dedicated transmission line-sharing etc.
- § Relinquishment provisions
- § Application bank guarantee/ Access Bank Guarantee
- § Treatment of non availability of upstream/ downstream system

Background

§ September 2014- Staff paper on Transmission Planning, Connectivity, Long Term Access, Medium Term Open Access and other related issues”

Background

**CERC Order dated
20.2.2015**

- Task Force for giving input for draft regulations on transmission planning under Sh. A.K. Saxena, Chief Engg CERC with members from CEA, CTU, POSOCO, STUs

**Office Order Dated
8.12.2015**

- **Committee to “Review Transmission Planning, Connectivity, Long Term Access, Medium Term Open Access and other related issues”-under Shri Mata Prasad, Power System Expert- Chairman, Shri Rakesh Nath, Former Member, APTEL-Member ,Shri A. S. Bakshi, Member CERC-Member**

February 2016

- Task Force on Transmission Planning submitted its report to Commission

26th April 2016

- Draft CERC (Transmission Planning and other related matters) Regulations, 2017

Background

**9th meeting of the Mata Prasad Committee-
17.05.2016**

- Deliberation with Discoms on concept of GNA

September, 2016

- Mata Prasad Committee submitted its report to the Commission

18th September 2017

- Public Hearing on Draft CERC (Transmission Planning and other related matters) Regulations, 2017

14th November 2017

- Draft CERC (Grant of Connectivity and General Network Access to the inter-State transmission system and other related matters) Regulations, 2017.

Salient features of Draft Regulations

- § Scheduling of power as per merit order- under long term, medium term or short term contracts as per requirement of entities.
- § Requirement of specifying target region- removed
- § GNA for installed capacity for generators- mitigate congestion, no free Connectivity, no part LTA
- § Relinquishment of GNA is not allowed except for closure of plant – modalities of exit clearly defined
- § Downstream system issues- to be planned together
- § Regulatory Oversight on planning
- § Increase in transparency- Stakeholders involvement in planning
- § Sale of surplus power from bus bar of generating station



Draft Regulations Provisions

Definitions

§ General Network Access or GNA” means the non-discriminatory access to the ISTS granted by the CTU to an Applicant for an estimated maximum injection/ drawal for a specified period.

§ Applicant for GNA

- State Transmission Utility on behalf of intra-state entities who intend to seek GNA through STU (distribution licensee, consumers, embedded generator etc.);or
- Consumer; or
- A generating station including a captive generating plant irrespective of installed capacity; or
- Distribution licensee

Application for GNA

§ Generators to seek GNA for Installed capacity less auxiliary consumption

§ Any intra-State entity desirous of availing GNA to ISTS may apply GNA application directly to CTU along with required No objection certificate from STU or it may apply for the same to STU

– STU to consider application by intra-State entity while making application on behalf of intra-State entities for grant of GNA to CTU

GNA by State

§ STU shall provide GNA for 5 year period starting 4 years hence the year when GNA application is made. Relevant portion of the Format (**FORMAT-GNA-2**) for application for Grant of GNA by State Transmission Utility (STU):

5	Details of GNA (MW) (Year wise for 5 year) (i) 2022 (ii) 2023 (iii) 2024 (iv) 2025 (v) 2026 (If STU is applying for GNA in January, 2018)	Q1 GNA (MW)	Q2 GNA (MW)	Q3 GNA (MW)	Q4 GNA (MW)	
6	Entity wise details for GNA Quantum (MW) for which GNA required in respect of (i) Entity-1 (ii) Entity-2 (iii) Entity-3	2022	2023	2024	2025	2026
		(Quarterly data)	(Quarterly data)	(Quarterly data)	(Quarterly data)	(Quarterly data)

GNA by State-Example

§ In January 2019, STU shall provide its peak quarterly requirement from ISTS (Injection/ Withdrawal GNA) for years 2023, 2024, 2025, 2026 and 2027.

- Such data should be provided on Annual rolling basis i.e. in January 2019, STU should provide its GNA for 2023- 2027.
- STU should consider the anticipated demand figures from each DISCOM in the State, other intra state entities and likely generation from the generating companies having generating stations in the State.
- STU can revise its projected GNA for the year 2024 and beyond in the year 2020
- STU would not be allowed to revise the same for the year 2023 keeping in view construction timeline for transmission

§ STU should also provide quarterly Injection/Withdrawal data for immediate 4 years also i.e., for years 2019, 2020, 2021 and 2022

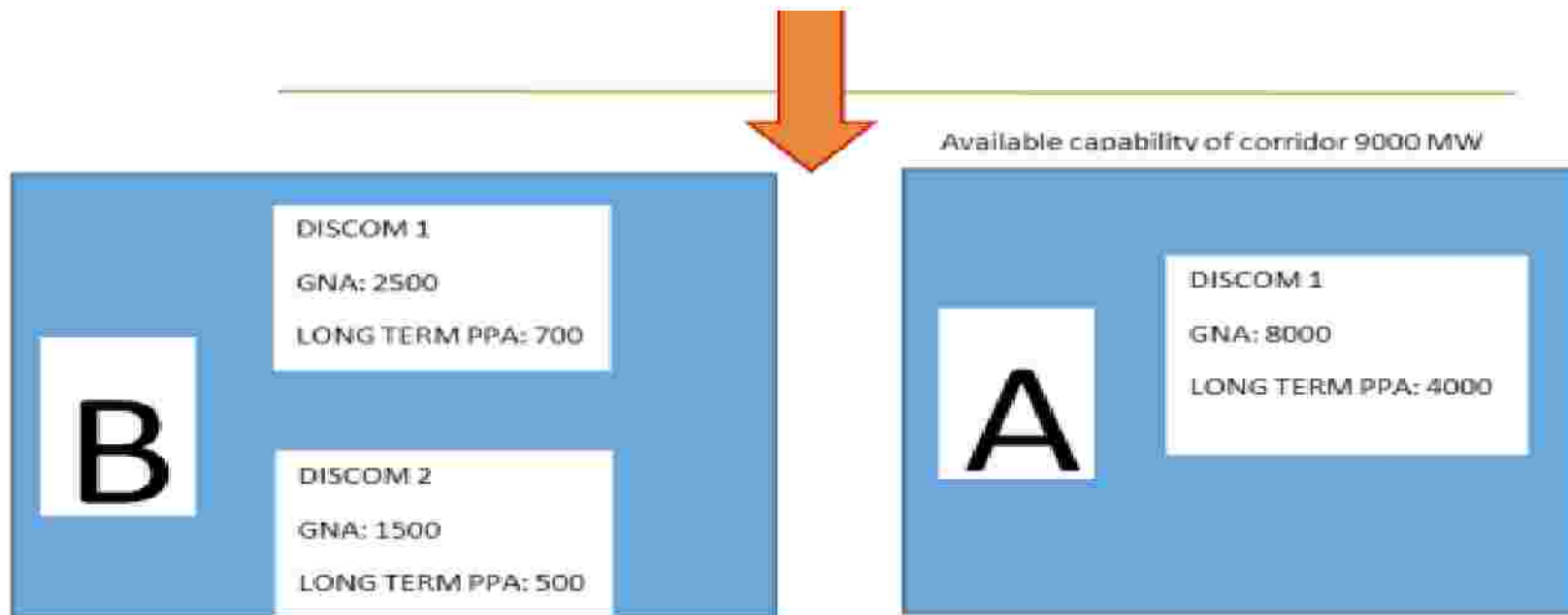
Scheduling mechanism for States

- § It has been envisaged that states shall be able to schedule its power under contract for any period (Long/medium/ short term) after operationalization of GNA
- § However, on account of constraints in ISTS, it may not be possible to accommodate the quantum requested by State on day ahead basis under certain circumstances
- § the State shall be asked to provide its revised schedule and the State's entitlement through the constrained transmission corridor shall be intimated
- § The State shall be given liberty to schedule from long term /medium term /short term contracts through the constrained corridor as per the relative economics of the transactions to the State
- § In case of more than one state is availing power through the constraint corridor, POSOCO shall schedule the power in proportion to long term PPAs tied up on that corridor by each state

Scheduling mechanism for States: Case I

§ When corridor capability requirement sought by two States is more than available corridor capacity for day ahead scheduling requiring curtailment among States and their DISCOMS.

Suppose there are two States, State A and State B



Scheduling mechanism for States- Case-I

- § In case sum of requisitions from both the states for power import through the specific corridor exceeds the available capability due to any contingency, then the requisitions made by the States need to be rescheduled to ensure that the total requisition is equal to available capability.
- § The scheduling would be carried out proportionate to the quantum of corridor allocated to each of the DISCOMs pursuant to their long term PPA.
- § Suppose DISCOM-1 of State B requests for import of 2500 MW from specified corridor. Requisition of 2500 MW by DISCOM 1 of State B through corridor would be reduced to: $9000 \times 700 / (700 + 500 + 4000) = 1212$ MW
- § DISCOM-1 can requisite power from any generator who is in upstream of the congested corridor subject to total requisition of 1212 MW. It can be through any PPA under short, medium or long term based on economic operations

Scheduling mechanism for States- Case-I

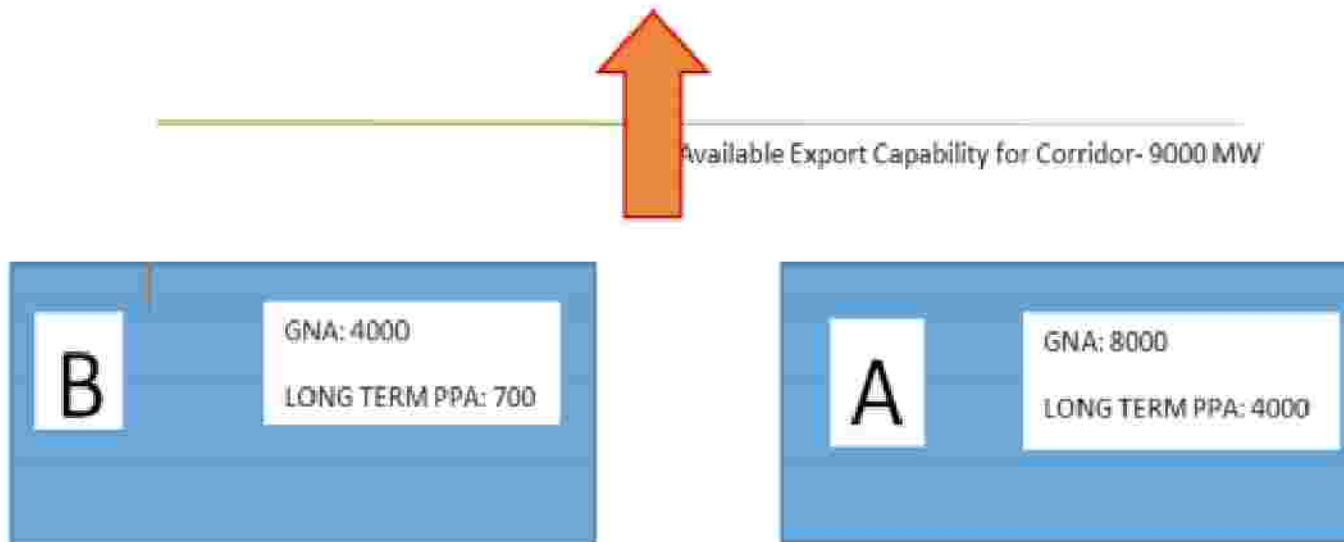
§ Similarly for DISCOM 2 of State B Requisition through corridor would be reduced to:

$$9000 \times 500 / (700 + 500 + 4000) = 864 \text{ MW}$$

§ And for DISCOM of State A, scheduling through corridor would be as: $9000 \times 4000 / (700 + 500 + 4000) = 6924 \text{ MW}$

Scheduling mechanism for States: Case II

§ When Export capability sought by two Generators is less than available capacity requiring scheduling accordingly among Generators



Scheduling mechanism for States: Case II

§ In case sum of schedules requested from both the generators for power export through the corridor exceeds the available export capability due to any contingency, then the schedule obtained by the generators needs to be finalised to ensure that the total schedule is equal to available export capability.

§ The scheduling would be carried out proportionate to the quantum of long term PPA entered by each Generator.

§ Corridor Allocated to schedule power from Generator A:
 $9000 \times 4000 / (4000 + 700) = 7660$

§ Corridor Allocated to schedule power from Generator B:
 $9000 \times 700 / (4000 + 700) = 1340$

§ The beneficiary who wishes to avail power through this export corridor through Generator A would be able to schedule 7660 MW from Generator A and similarly for 1340 MW from Generator B through the said Corridor

Case-II...

§ In case out of 7600 MW which can be scheduled from Generator A through constrained corridor more than one beneficiary seeks to schedule power such that total requisition is more than 7660 MW then following methodology is proposed:

§ Suppose the PPAs between generators and beneficiaries is as detailed below

Beneficiary	GB			GA		
	Long	Medium	Short	Long	Medium	Short
B1	100	300	1500	2500	1000	500
B2	600	1000	500	1500	500	2000

Case-II.....

§ B2 can schedule power from GB: $1340 \times 600 / (600 + 100) = 1448$ MW

§ B2 can select the transaction from GB under Long, medium or short term PPA based on economic operation subject to total being 1448MW.

§ Similarly from B2 to GA:

$$7660 \times 1500 / (1500 + 2500) = 2873 \text{ MW.}$$

§ Though total transaction right for B2 through the corridor is 4321 MW ($1448 + 2873 = 4321$ MW), it cannot schedule the total power from GA only even if it is more economical. B2 cannot schedule more than 2873 MW from GA, subject to total schedule given to GB from B1 & B2.

§ The samples indicated are illustrative for understanding. Suggestions are invited from stakeholders on methodology which may be followed based on actual scenarios which may happen

Network Services for Transfer of Power

§ GNA will not entitle any generating station to interchange any power with the grid

§ Generating station will be required to sign PPA or PSA

§ CTU shall develop an online portal for obtaining the information regarding PPA by a Generator or distribution licensee or trading licensee or consumer or any other entity.

§ Scheduling priority

- long term PPAs
- medium term PPAs
- short term PPA and

§ Among PPAs of same category under pro-rata basis

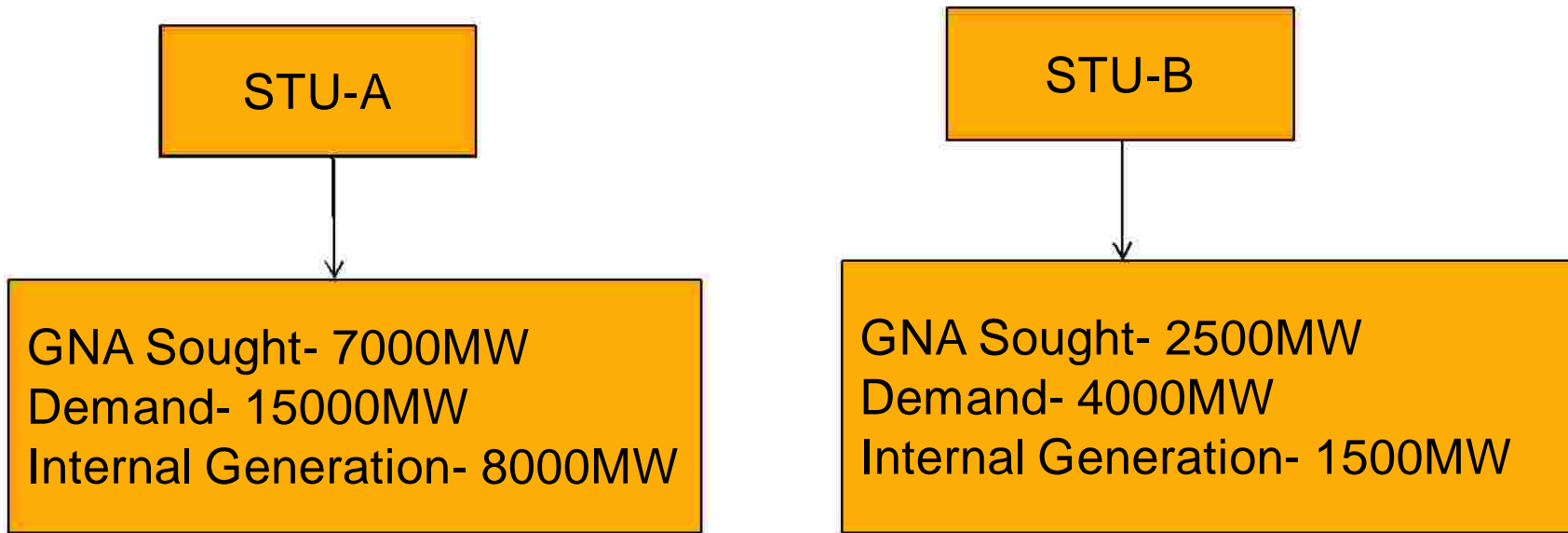
GNA by State

§ STUs to seek GNA at each of its interconnection point with ISTS to facilitate transmission planning

- The planning of transmission system can only be effectively carried out if Drawl/ injection is known at each point.
- In case if, node wise details are not furnished then it would lead into assumption of loads at different nodes by planner which can results into congestion in some corridors and underutilisation in some other corridors.
- The nodal Load generation is also required for TTC computation and for computation used for sharing of transmission chargers and losses regulations

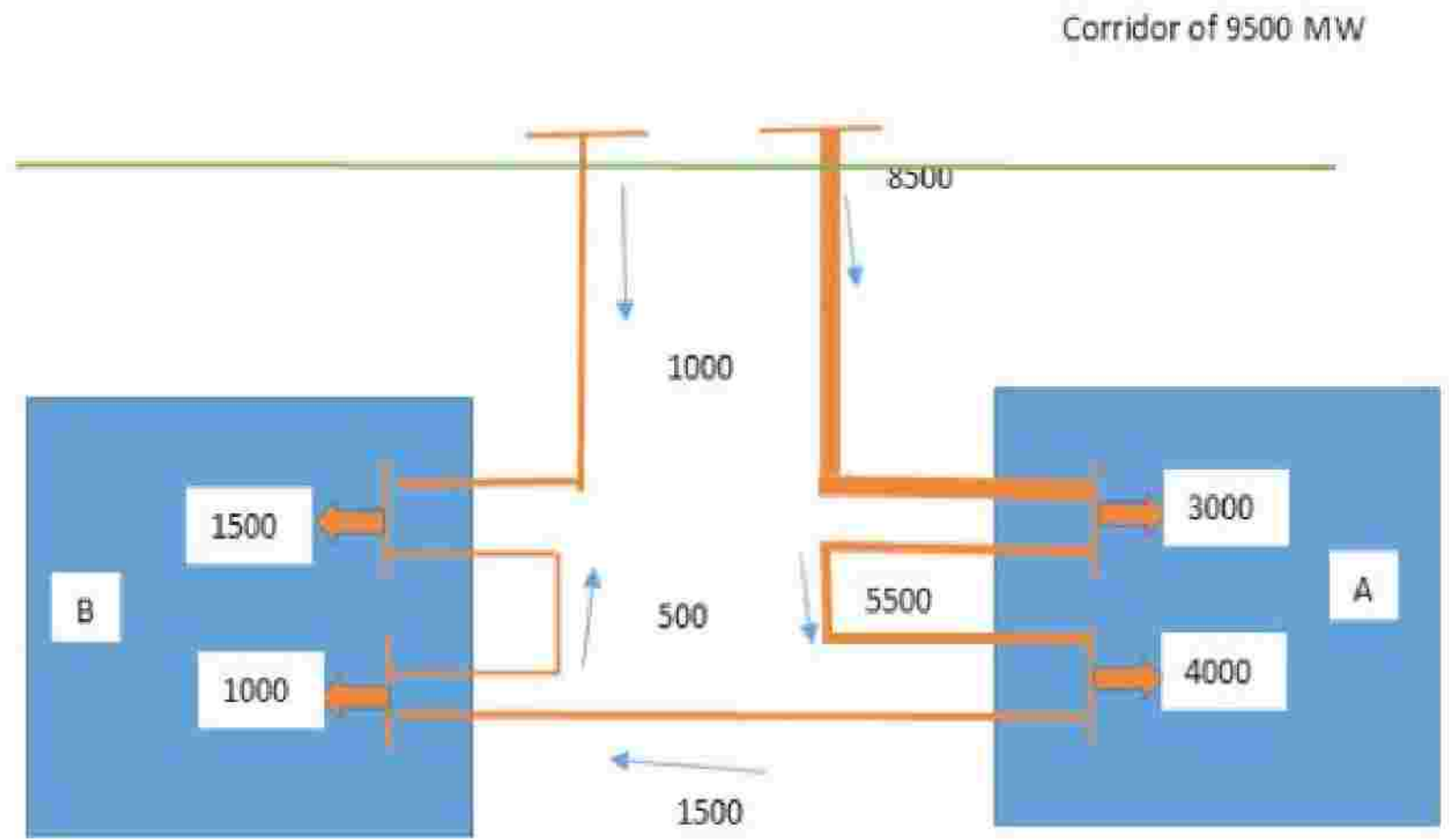
GNA by State

§ Example showing impact of Assumed value of Load at each Node by planner and subsequently change in the same during operational period may be as follows:



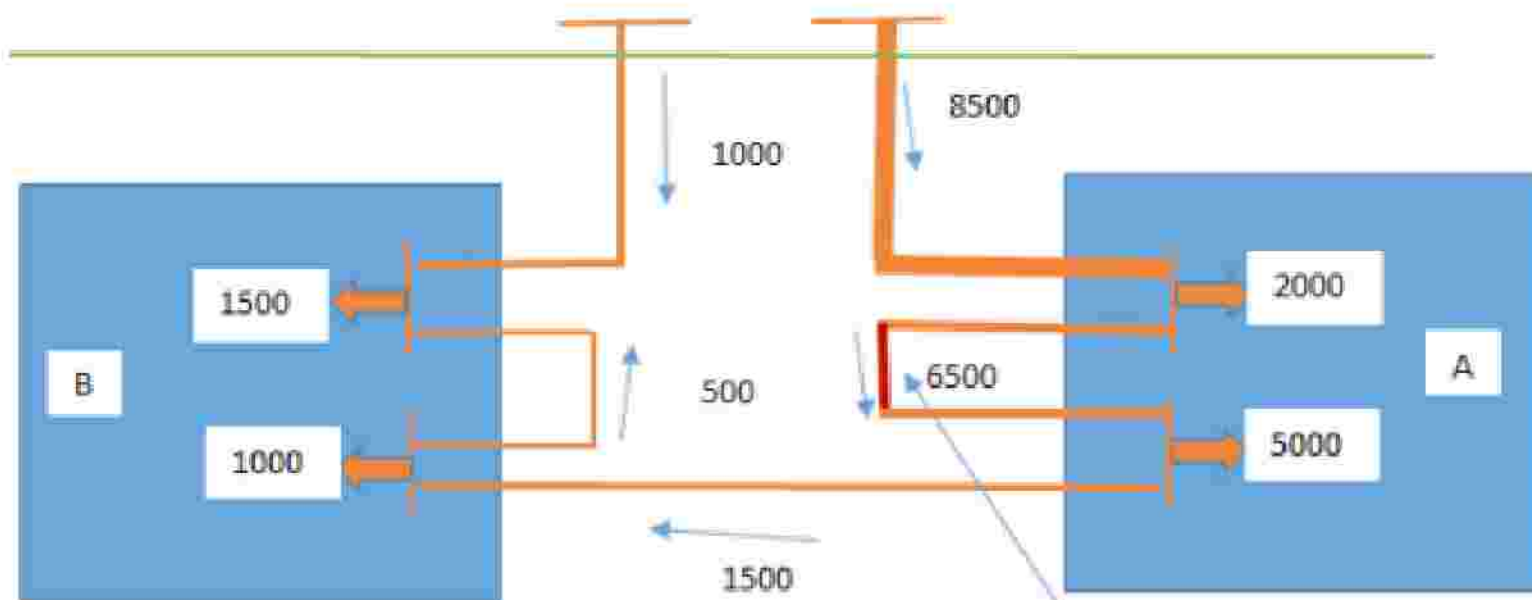
§ In case GNA at each interconnection point is not segregated, Network shall be planned using Lump sum Value of GNA.

GNA by State- Network Planned Based on Lump sum GNA and assumed Node wise Load



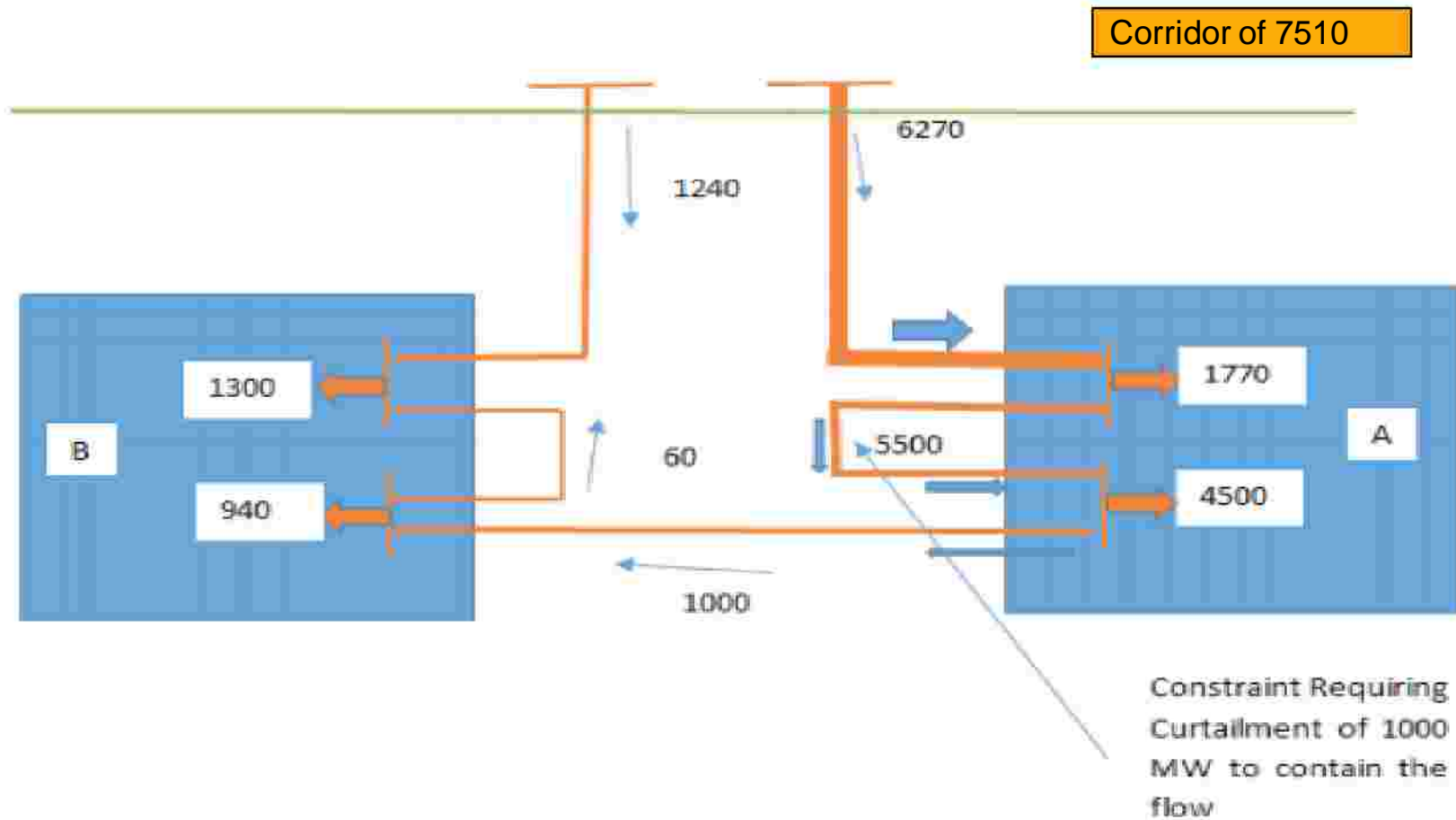
GNA by State

Change in Power flow due to change in nodal drawl points with same GNA:



Constraint Requiring
Curtailment of 1000
MW to contain the
flow

GNA by State-TTC revised to 7510



Difficulties in assessing GNA

§ Explanatory Memorandum-Para 2.4.8

§ While finalising the Report of the Committee, representatives of States were invited for their views on the proposed GNA. They expressed their difficulty in assessment of GNA accurately. Keeping that in view the Committee in its report has suggested the following:

§ “6.3.4..... (c) In case the projected import/export requirement is not provided by STU, CTU should, in consultation with CEA and POSOCO, assess the import /export requirement of the State for the purpose of transmission planning and upload the same on CTU’s website for comments from stakeholders. In the absence of any response to the same from STU, the projected import/export requirement assessed by CTU should be taken for transmission planning.

(d) Bulk Consumers directly connected to ISTS need to provide their drawal requirements from the ISTS.

(e) A Validation Committee comprising representatives of CTU and STUs should be set up under chairmanship of CEA which should validate the projected import/export requirement from ISTS provided by STUs / assessed by CTU considering the comments received from stakeholders on the uploaded data. The Validation Committee should finally approve the projected import/export requirement for each State which should be uploaded on website of CEA and CTU and should form the baseline for planning.”

Draft Central Electricity Regulatory Commission (Transmission Planning and other related matters) Regulations, 2017

§ “23. Procedure for Transmission Planning:

23.1. The following procedure shall be complied with all entities involved in the transmission planning of ISTS:

- (a) The inputs regarding the generating stations which are likely to come up would become available to the transmission planners from the Central Repository of generation projects, applications for GNA and STUs.
- (b) The demand projections by the STUs estimated by them in coordination with the DISCOMs should form the baseline for transmission planning.
- (c) In case the projected import/export requirement is not provided by STU, CTU should, in consultation with CEA and POSOCO, assess the import /export requirement of the State for the purpose of transmission planning and upload the same on CTU’s website for comments from stakeholders. The same shall be discussed at Regional study Committee level. In the absence of any response to the same from STU, the projected import/export requirement assessed by CTU should be taken for transmission planning.
- (e) The Central Study Committee shall validate the projected import/export requirement from ISTS provided by STUs / assessed by CTU considering Page 18 the comments received from stakeholders on the uploaded data. The Central Study Committee shall finally approve the projected import/export requirement for each State which shall be uploaded on website of CEA and CTU and shall be used for planning.....”

2.4.11 The above aspects may be kept in view while furnishing suggestions on the proposed model of GNA.

Applicant for Connectivity [Regulation 2(1)(c)]

- § Any company authorised by the Central Government or the State Government as:
 - (a) Solar Power Park Developer or (b) Wind Power Park Developer or (c) Wind-Solar Power Park Developer
- § Distribution Licensee who intends to avail supply for a minimum load of 250 MW from the inter-State transmission system
- § Consumer who intends to avail supply for a minimum load of 250 MW from the inter-State transmission system
 - Dedicated line by CTU with full cost to be borne by consumer.

Other important definitions

§ Central Repository means a database maintained by Central Electricity Authority in case of conventional energy and by any other authority as notified by the Central Government in respect of renewable energy

Scope

- § Persons who are already connected to the state grid may be allowed to seek Connectivity and GNA to ISTS subject to payment of transmission charges corresponding to additional Connectivity and GNA and applicable state charges.
- § Generating stations who are already connected to the ISTS grid for part of their installed capacity shall seek Connectivity and GNA to ISTS for balance capacity.
- § An Applicant seeking GNA to the inter-State Transmission System cannot apply for GNA without applying for Connectivity to inter-State transmission system or intra-State transmission system.
- § An Applicant who is already connected to the grid can apply for GNA for the connected quantum without applying for Connectivity.
- § An applicant may apply for Connectivity and GNA simultaneously.
- § The existing Long Term customers of ISTS shall be deemed to be GNA customers subject to fulfillment of conditions as per the Regulation 25 hereof

Connectivity to both ISTS and intra-State Transmission System

- § Applicant shall apply for Connectivity for demarcated quantum to CTU and STU such that total Connectivity quantum equals installed capacity less auxiliary consumption
- § Commercial liability of generator including CGP towards ISTS shall be corresponding to the quantum proposed to be evacuated through CTU network.
- § Applicant shall clearly indicate the quantum of Connectivity with inter and intra state transmission system in its application to CTU.
- § CTU shall take confirmation from concerned STU regarding connectivity to intra-state transmission system before grant of Connectivity to ISTS. If such confirmation is sought by CTU, STU shall confirm the same within a period of 15 days.

Treatment of Upstream/downstream system

§ ISTS licensee, CTU, STU, associated State transmission licensee and distribution licensee shall ensure to commission systems in matching timeframe.

§ Notwithstanding any provision with regard to indemnification in any agreement between the parties, in case of non-availability of identified downstream/upstream system, the payment liability shall fall on entity due to which the element has not been put to regular use as certified by RLDC. CTU shall coordinate with STU to ensure that ordering for State lines are done such that it is commissioned matching with ISTS lines. The ISTS system shall be included under POC calculations only after it is put to regular use.

Treatment of Delay in Transmission Project or Generation Project

§ In case of delay of both generator and transmission licensee

- the date of start of GNA may be postponed by CTU as per progress assessed by CTU and mutual agreement
- This will be duly notified on website of CTU

§ In case of failure in developing generating station/dedicated transmission system by the scheduled date of GNA operationalisation

- Liability of payment of transmission charges will start from the date of operationalization of GNA

§ In case of adverse progress of generating station

- CTU to endeavour to re-plan the system

§ The transmission licensee should keep provision of foreclosure in the contract made by it with EPC contractor.

§ In case of delay

- CTU to make alternate arrangement at the cost of transmission licensee
- Alternate arrangement to be removed with commissioning of actual plan
- In case alternate arrangement cannot be provided, trans. Licensee shall pay proportionate

transmission charges to the generator

Access Bank Guarantee

§ Access Bank Gurantee – 20 lac/MW, 10/lac/MW for renewables

§ No access BG by STU.

– Access BG for intra-state entities through STU

§ The Access Bank Guarantee shall be kept subsisting for 5 years from the date of operationalisation of GNA. After operationalisation of GNA, Access BG equivalent to 1/5th of amount shall be returned back to the Applicant till 4th year. The amount equivalent 1/5th of Access BG shall be kept subsisting till the end of 12th year security towards relinquishment charges. The Applicant shall submit revised Access BG accordingly.

§ The Access Bank Guarantee may be encashed by the nodal agency
(a) If the application is withdrawn by the applicant after 9 months of grant of GNA by the Nodal Agency. (b) If the applicant fails to submit the extension letter of the earlier furnished BG at least 30 days prior to its expiry. (c) If the GNA is relinquished in accordance with Regulation 24.

Relinquishment of GNA

§ In case of exit from GNA, GNA customer to be disconnected from the grid with following liability:

Case	Liability
In case GNA Customer exits after the grant of GNA but before operationalization of GNA	<ul style="list-style-type: none">• Complete Access Bank Guarantee• Transmission charges for one year (average all India POC rate)
In case GNA Customer exits prior to completion of 5 years after GNA is operationalized	<ul style="list-style-type: none">• Remaining Access Bank Guarantee• Transmission charges for one year as per prevailing PoC Rate (If rate is not available, average all India POC rate)
In case a GNA Customer exits after 5 years after GNA is operationalized	<ul style="list-style-type: none">• Transmission charges for one year as per prevailing PoC Rate (If rate is not available, average all India POC rate)

Relinquishment of GNA.....contd...

§ IPP relinquishes its GNA on its conversion to CGP

- Pay applicable relinquishment charges

§ For CGP to IPP

- Fresh application for additional GNA

§ De-rating or up-rating of units is allowed due to technical reason

- No relinquishment charges
- Necessary certification is required from CEA

§ Charges recovered from encashment of ABG or from relinquishment of GNA

- To be used for reducing YTC for the next quarter

§ For intra-State entity relinquishing GNA

- Relinquishment charges shall be applicable
- State GNA shall be adjusted accordingly

Transition Phase: Between the Connectivity Regulations and the proposed GNA mechanism

Generating Station	Treatment
Generating stations with full capacity tied up including CGS	<ul style="list-style-type: none"> • GNA= Installed Capacity-APC • Corresponding LAT quantum of beneficiaries = GNA of beneficiaries • A list of these generating station to be published by CTU within one month
Generating stations having sought LTA (including target region) for part capacity and the same has already been operationalized or has not been operationalised	<ul style="list-style-type: none"> • Generating Station to apply for additional GNA within 3 months* • CTU to grant GNA from the date of availability if transmission system
For generating station applied LTA for full capacity but LTA is not yet operationalized	<ul style="list-style-type: none"> • CTU to consider same as GNA application for the full injectable capacity and operationalise GNA as per availability of transmission system

Transition Phase.....

Generating Station	Treatment
<p>In case the existing LTA customer happens to be a trading licensee</p>	<ul style="list-style-type: none"> • CTU to convert LTA into GNA of the concerned generating station/ DISCOM/ intra-State entity
<p>Renewable Energy Generating Station or Solar Power Park Developer</p> <ul style="list-style-type: none"> • Granted connectivity to ISTS but not physically connected to ISTS 	<ul style="list-style-type: none"> • deemed to have been granted Stage-I Connectivity • They shall apply for Stage-II Connectivity

Sale of surplus power by distribution licensee

§ In case a distribution licensee intends to sell surplus power available to it from its share in the generating stations located within the State,

- it may seek injection GNA for the said quantum.

§ In case a distribution licensee intends to sell its contracted power from an ISGS to any third party,

- the distribution licensee shall be allowed to sell power at the injection point of that ISGS

Regulatory Oversight

§CTU shall approach the Central Commission for regulatory approval along with system studies of new transmission assets in respect of ISTS within a month of its approval by Standing Committee. After the approval is accorded by the Central Commission, the system strengthening of ISTS shall be undertaken for implementation in accordance with applicable Regulations

Nodal Agency & Application Fee

§ CTU is the Nodal Agency for grant of Connectivity and GNA to the ISTS.

§ Application Fee

Sl. No.	Quantum of Power to be injected into/drawal from ISTS	Application fee (Rs. in lakh)	
		For Connectivity	GNA
1.	Up to 100 MW	4	4
2	More than 100 MW and up to 500 MW	6	6
3	More than 500 MW and up to 1000 MW	12	12
4	More than 1000 MW	18	18

§ No application fee for STUs.

§ Two Stage Connectivity for Renewable energy generating station or Solar / Wind / Wind-Solar Power Park Developer

Timeframe for processing of application

Nature of Application	Time limit for processing beginning the last day of the month in which application was received by the nodal agency
Connectivity (for applicants other than renewable generating station, Solar ,Wind Power Park Developer and Wind-Solar power park developer)	60 days
Connectivity (for renewable generating station, Solar , Wind Power Park Developer and Wind-Solar power park developer)	
Application for Stage-I	60 days
Application for Stage-II	60 days
GNA	120 days where augmentation of transmission system is not required
	180 days where augmentation of transmission system is required

- In case CTU is not able to process the application for Connectivity and GNA in Timeframe specified above, application fee shall be returned and application fee shall be processed free of cost

Grant of Connectivity (other than Wind/ Solar/Solar-Wind Power Park Developer)

§ Connectivity Application shall be for a quantum equal to installed capacity of generating station less auxiliary power consumption.

§ A captive power plant shall apply for Connectivity for a quantum of maximum exportable capacity proposed to be connected to ISTS.

§ The application for Connectivity shall contain details such as,

- registration no. of Central Repository,
- proposed geographical location of the applicant,
- maximum quantum of power to be interchanged with the ISTS
- Status of Site identification, land acquisition, Environmental clearance, Forest Clearance, Water linkages, Fuel Arrangement, etc.

Grant of Connectivity- Renewable Energy Generating Station or Solar / Wind /Wind-Solar Power Park Developer

§ Two Stage Connectivity

- Stage-I and Stage-II Connectivity

§ Documents required with Stage-I Connectivity Application:

- A copy of Board Resolution, if Applicant is a company
- Project Report regarding intended type of project, implementation plan
- Site identification wherever undertaken
- Environmental clearance
- Forest Clearance for the land
- Authorisation issued by Central Government or State Government, as applicable

Stage-II Connectivity

§ An Applicant may apply for Stage-II Connectivity

- along with application for Stage-I Connectivity or
- after grant of Stage-I Connectivity if it meets eligibility criterion as provided in Regulation 7.9 (c) and Regulation 7.9 (d)

§ 7.9 (c) An Applicant other than a merchant power plant shall be eligible to apply for Stage-II Connectivity on achieving following milestones:

- Financial closure of the project developer has been completed.
- Award of project through bidding by any entity authorised by the Central Government or State Government for 50 MW and above; or Execution of Long Term PPA under the provisions of Act for at least 50 MW. In case the PPA has been executed through a trader, then it must also be supported with a back-to-back PSA

Stage-II Connectivity- contd.

§ 7.9 (d) An Applicant not covered under Regulation 7.9 (c) (merchant power plant) shall be eligible to apply for Stage-II Connectivity on achieving following milestones:

- Financial closure of the project developer has been completed.
- Applicant has completed at least 50% Tower Erection of dedicated Transmission Line to connect to ISTS and have installed switchgear and ICT at its pooling station

§ Stage-II application accompanied by a BG or LG of Rs. 5 Lakh/MW for the purpose of bay implementation in accordance with the Bay Implementation Agreement with CTU.

§ BG or LG shall be kept valid till application for GNA is made along with applicable Access BG.

§ The Application for GNA shall be made within 6 months of grant of Stage-II Connectivity

- failing which Stage-II Connectivity shall be revoked and BG or LG shall be encashed.

Grant of Connectivity

§ All online applications received during the month shall be treated to have been made concurrently.

§ Nodal Agency shall intimate deficiencies, if any, within one week of receipt of Application.

§ Applicant shall rectify deficiencies within one week thereafter

- Failing which application shall be closed and 20% of application fees shall be forfeited and balance be returned

§ In case rectified application is received after last day of the month, the application shall be deemed to have been made in subsequent month and processed accordingly.

Grant of Connectivity

§ In case of any material change location or quantum after filing of application or grant of Connectivity:

- The applicant shall inform the same to the nodal agency
- If modification in ISTS is required, the nodal agency shall the applicant within a period of one month to file fresh application along with application fee and relevant documents.
- The fresh application shall be considered by the nodal agency in accordance with the Regulations and the earlier application shall be closed.

§ If no modification in the planned ISTS is required, the nodal agency shall issue revised grant incorporating the change in Connectivity.

§ CTU shall indicate the firm location while granting Stage-II Connectivity. Applicant shall enter into bay implementation agreement within 30 days of grant of Stage-II Connectivity

Grant of Connectivity

§ More than one generator can use the dedicated line connecting their generating station to pooling station of ISTS

- after formalising all aspects including sharing of the transmission charges and losses of the transmission line among the generators.
- The transmission charges shall be decided in line with the Tariff Regulations notified by CERC

§ After commissioning of dedicated line by the generator(s)

- The dedicated line shall be handed over to CTU for the purpose of operation and maintenance.
- CTU shall be entitled to normative operation and maintenance expenses as per CERC Tariff Regulations.
- The line shall be under the operational control of CTU for all the purposes

Grant of Connectivity

§ Applicants granted Connectivity shall submit details of project execution to Central repository.

§ Applicant granted connectivity shall furnish technical connection data to CTU within 1 month of finalisation of EPC contract.

§ Applicant shall sign “Connection Agreement” within one month of intimation of connection details by CTU.

§ Applicant shall not be allowed physical connection without signing of Connection Agreement.

§ Applicant shall submit a copy signed Connection Agreement to respective RLDC in whose control area it is located prior to physical connection with the grid

Grant of Connectivity

§ Applicant granted Connectivity shall be allowed physical connection with the grid only after filing the application for GNA complete in all respects.

- Else Connectivity granted shall be withdrawn and application fee shall be forfeited.
- In case of deemed withdrawal of application, the Applicant may file a fresh application for Connectivity

§ The Connection Agreement shall be signed amongst the Applicant, CTU and ISTS licensee (whose S/s or PS or switchyard or the TL has been identified by the nodal agency for connectivity) subject to fulfilment of requirements of CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007

Infirm Power and Start-up Power

- § The applicant shall be able to interchange firm power with the grid only after its GNA is operationalized.
- § The applicant may be allowed to draw start-up power or inject infirm power by respective RLDC prior to operationalization of GNA subject to Regulation 7.34 and Regulation 7.35.
- § A unit of generating station shall be allowed to inter-change infirm power with the grid during the commissioning period, including testing and full load testing before the COD, after obtaining prior permission of the concerned RLDC for the periods mentioned

Connectivity by a Captive Generating Plant

§A Captive Generating Plant (CGP) may have surplus capacity which it may intend to sell on long term or medium term or short term basis or it may seek to evacuate power from CGP to captive user by using ISTS.

§A Captive Generating Plant (CGP) shall apply for Connectivity for a quantum of maximum exportable capacity proposed to be connected to ISTS

Construction of Dedicated Transmission Line

§ To be developed and owned by the concerned generating station.

§ The dedicated line shall be operated by CTU.

§ The specifications for dedicated transmission lines shall be indicated by CTU while granting Connectivity.

§ Length of Dedicated line ≤ 100 km

§ The lines connecting the generator to intra-state transmission system shall be regulated as per Regulations of concerned State Commission.

§ In case dedicated lines have already been constructed or under construction by ISTS Licensees,

- Transmission charges for such lines from CoD shall be payable by the generator till operationalization of GNA post which transmission charges shall be shared as per the Sharing regulations.

Start date of Connectivity

- § From the physically connection to to the grid for drawl or injection of power.
- § Drawal of start-up power from the grid or injection of infirm power into the grid only through dedicated line after grant of Connectivity and GNA
 - except where LILO has been allowed as part of coordinated transmission planning

Point of Commercial Metering

§ Metering shall be done at the interface point of connection of the generator with transmission system of licensee as specified in the CEA Metering Regulations.

§ In case dedicated transmission Lines are owned/ constructed by a generator,

- metering point shall be at the pooling sub-station of ISTS licensee.

§ In case generator is connected to more than one pooling station,

- metering shall be at the bus bar of the generating station

Application for General Network Access (GNA)

§ Application seeking GNA shall be filed within two and half years from the date of intimation of grant of

- Connectivity for Applicants other than renewable energy generating station or Solar or Wind or Wind-Solar Power Park Developer
- Stage-I Connectivity for renewable energy generating station or Solar or Wind or Wind-Solar Power Park Developer by CTU

§

Application for GNA- Deficiency removal

§ Any deficiency in the application shall be communicated within a week of receipt of application

§ Applicant shall be required to rectify the deficiency within one week thereafter

– Failing which application shall be closed, application fee shall be forfeited and Access BG shall be returned within 15 days

§ If the rectified application is received after last day of the month, the application shall be deemed to have been in made in subsequent month.

Relative priority

§ Application for GNA shall be processed on following basis:

- Applications received during the month shall be construed to have been received concurrently.
- Applications received during a month shall have priority over applications received during subsequent month.
- Applications for existing projects and projects under construction shall have priority over applications for new projects.
- While processing applications for GNA due regard shall be given to date of start of GNA sought

§ GNA applications shall be processed quarterly

GNA by Generator

- § New Generating station- 5 years prior to expected CoD of 1st unit
- § Renewable energy generators including Solar /Wind/ Wind-Solar Power Park Developer - 2years prior to the expected COD
- § For project under construction/projects seeking GNA for balance capacity for which there is no LTA, GNA can be applied earlier than specified above
- § GNA may be sought in phased manner matching with commissioning schedule of its units

GNA by Captive Power Plant

§ In case of captive power plants (CPP) with co-located captive load,

- Injection GNA = Installed Capacity less normative APC less the captive load estimated by the CPP for the co-located captive plant

§ Where CGP is not located at the same place as captive load,

- Injection GNA corresponding to the captive load to be met and for any surplus power

§ The captive user of CGP may seek drawal GNA if it intends to draw power through long or medium or short term agreement through ISTS through connection point of CGP and in such cases, it shall be subject to the charges as may be imposed by the respective State Commission.

§ The scheduling segregation among power sold by CGP and power purchased by captive user shall be done by concerned RLDC /SLDC as the case may be

Effective Date of General Network Access

§ GNA to be operationalized from the date given in the GNA Agreement

§ Part operationalization of GNA

- If all the required transmission system has not been commissioned
- Grid security should not be compromised

§ CTU to match CoD of transmission system with date of start of GNA

§ Transmission system shall be entitled to tariff only after corresponding GNA is operationalized

§ Inability of a GNA Applicant to generate or supply electricity shall not absolve it from liability to pay transmission charges

§ Payment security mechanism in the form of LC before operationalization of GNA

- Establishment of payment of security mechanism shall not be a precondition

§ Date of operationalization of GNA may be extended with approval of the Commission

- Only in case of delay due to reasons beyond the control of transmission licensee or generator

Curtailment

§ For the reason of transmission constraints,

- The transactions already scheduled may be curtailed by the Regional Load Despatch Centre.
- The transactions shall be curtailed on the basis of duration of transaction with short term transactions shall be curtailed first, followed by curtailment of medium term transactions and thereafter curtailment of long term customers.
- Amongst the customers of same category, curtailment shall be carried out on pro rata basis



Thank You

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)

Annexure - 7.1

घटक/Constituents	18/12/2017		24/12/2017		तक		आज की तारीख में/As on 10/01/2018		Figs in Lacs
	टोटल/TOTAL (Till wk-38 of FY17-18)		टोटल/TOTAL (Disb. Till wk-38 Part)		टोटल / TOTAL		O/S PAYABLE >13 WEEKS		
	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			
अरुणाचल प्रदेश / Ar. Pradesh	9640.84	1833.32	9015.12	1833.32	625.72	0.00	18.99		
असम / Assam	36420.79	127.26	36284.82	127.26	135.96	0.00	0.00		
मणिपुर / Manipur	2271.44	1323.91	2113.30	1343.32	158.14	-19.41	157.77		
मेघालय / Meghalaya	2231.92	3915.54	2231.92	3935.82	0.00	-20.28	0.00		
मिजोरम / Mizoram	4732.74	386.57	4662.06	422.50	70.68	-35.93	0.00		
नगालैंड / Nagaland	5374.14	417.42	5295.64	417.42	78.50	0.00	0.00		
त्रिपुरा / Tripura	11008.64	1223.49	10934.72	1223.76	73.92	-0.28	0.00		
लोकतक / Loktak	58.04	457.52	58.04	461.70	0.00	-4.18	0.00		
नीपको / NEEPCo	1263.66	9613.30	1263.66	9666.02	0.00	-52.72	0.00		
ई आर / ER	39428.16	167068.92	37916.33	166695.07	1511.83	373.85			
ओटीपीसी/ OTPC	1834.36	4731.11	1819.11	4731.87	15.24	-0.76	0.00		
एनटीपीसी / NTPC	2590.27	2831.62	2562.72	2831.62	27.56	0.00	0.00		
एन आर / NR	135655.01	42801.39	134589.59	42696.68	1065.42	104.71			
बि.एन.सि / BNC	61.43	117.34	61.41	119.14	0.02	-1.81	0.00		
VAE	5.67	147.84	0.00	0.00	5.67	147.84	0.00		
टोटल / TOTAL	252577.10	236996.55	248808.45	236505.50	3768.65	491.05			
PSDF		15580.55		6917.98		3277.61			

Annexure - 7.2

REACTIVE POOL ACCOUNT DETAILS : 2017-18

As on 10.01.18

Upto Week -36

All figures in ₹

Sl. No	States	PREVIOUS YEAR Paste D Value:		CURRENT YEAR AS PER THIS WORKBOOK					Int. Status sheet		Formula
		1 Outstanding Payable Amt. (upto 02.04.17)	2 Outstanding Receivable Amt. (upto 02.04.17)	3 Amt. payable to pool (2017-18)	4 Amt. paid to pool (2017-18)	5 Amt. Receivable from pool (2017-18)	6 Amt. Received from pool (2017-18)	7 Reactive int. payable o/s (Upto 31.03.17)	8 Reactive int. Receivable o/s (Upto 31.03.17)	9 Outstanding payable(+)/receivable (-)	
1	Ar. Pradesh	1878916	0	1323659	1274746	0	0	373540	0	2301368	
2	Assam	411388	0	5127340	0	756923	1846598	0	1394106	5234297	
3	Manipur	5897789	0	61148	7603893	428148	0	2173872	0	100768	
4	Meghalaya	0	5432805	0	0	6561157	8371434	687780	0	-2934747	
5	Mizoram	560572	0	1493157	1644455	297	0	48458	0	457436	
6	Nagaland	91075	0	125464	117823	82973	0	8476	0	24218	
7	Tripura	521173	0	1037066	1591935	45609	0	55347	0	-23959	
8	PSDF		3928108	0	0	1292727	2014820		1953367	-5159381	
	TOTAL	9360913	9360913	9167833	12232852	7875106	10218032	3347473	3347473	0	

Moving to 5-minute Metering



FOR Sub-Group
for

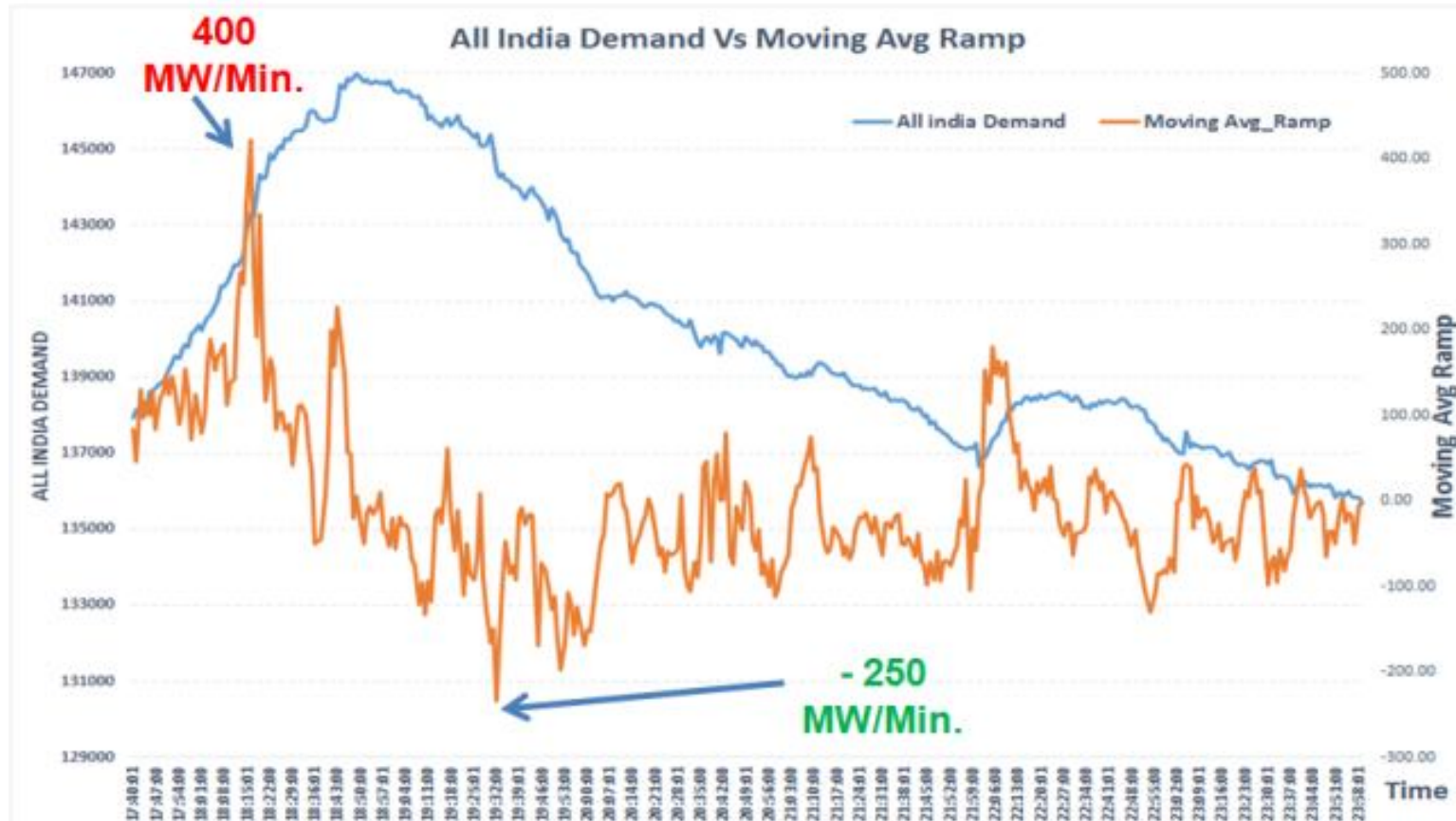
*"Implementation of 5-Minute Scheduling,
Metering, Accounting and Settlement"*

Presentation by NERLDC in 34th CCM of NERPC

Moving to 5-minute Metering

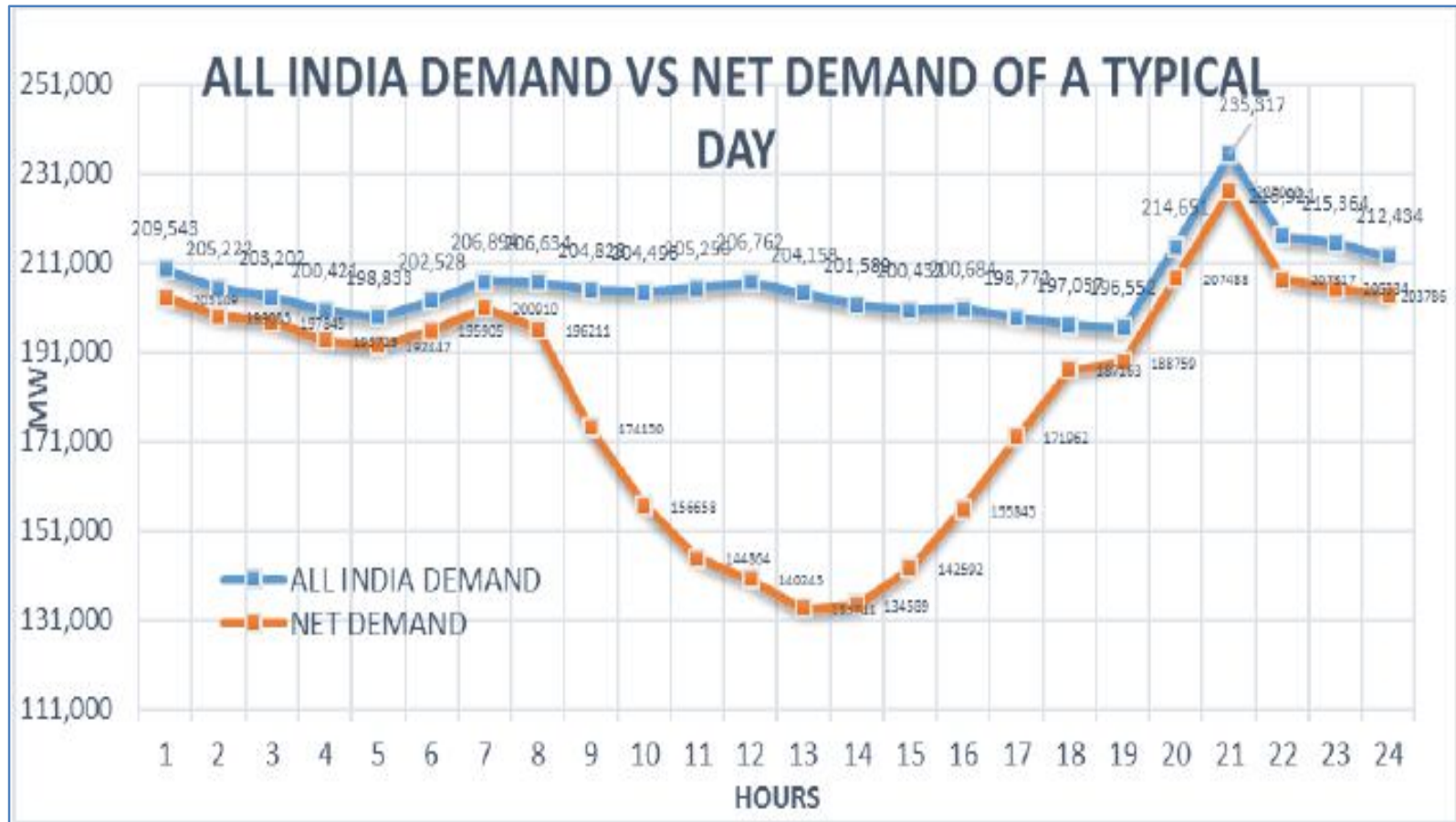
- **FOR sub-group advised all RPCs to discuss the 5-minute scheduling and settlement as an agenda item**
- For SAMAST implementation in NER, it has been agreed to go for 5 minute metering. Procurement of meters would be done accordingly.
- Discussion for implementation in **ISTS of NER** where there are around 400 SEMs in 75 Metering locations.

Moving to 5-minute Metering



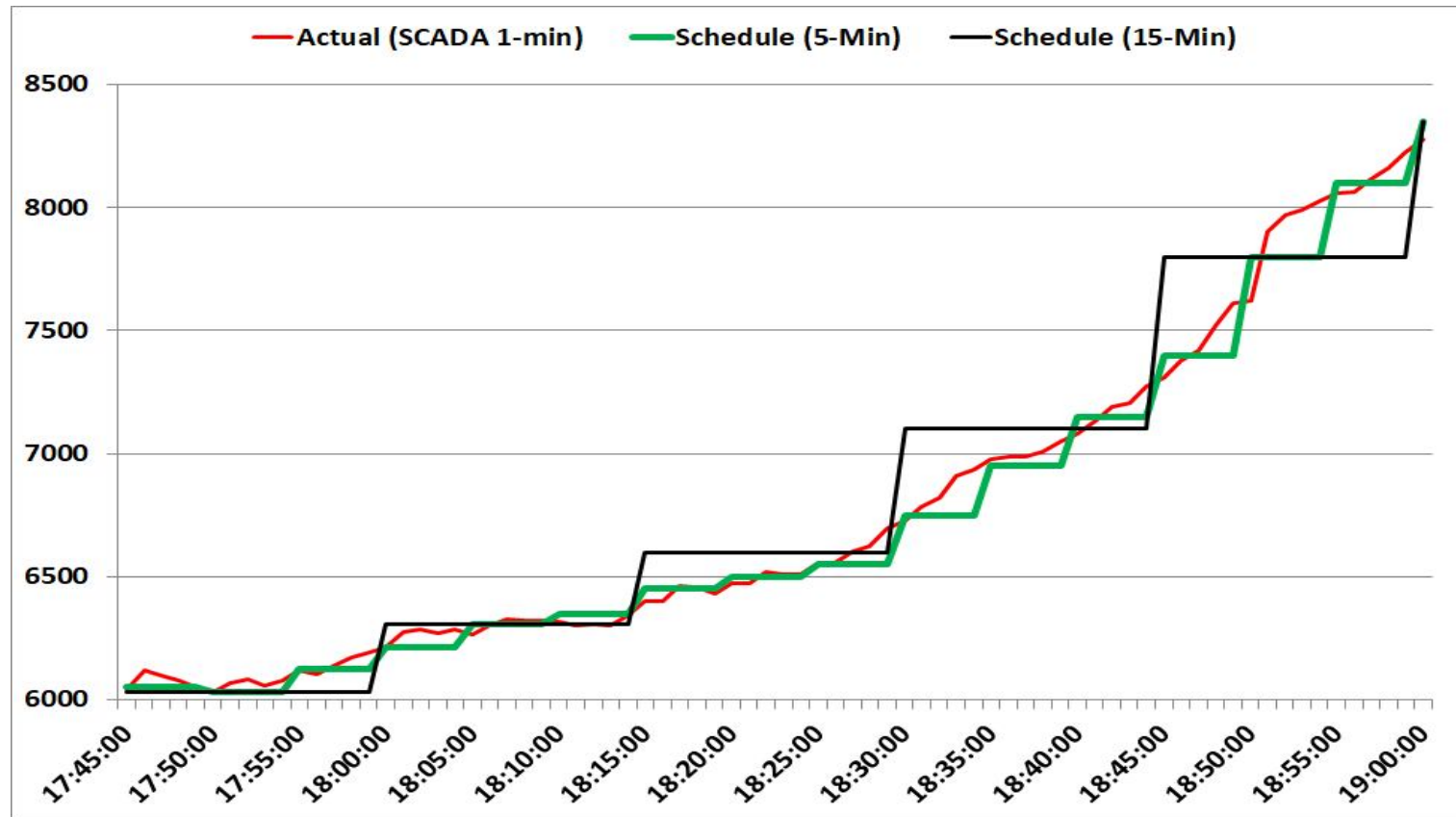
- Typical ramp up/down of 250-300 MW/min for about an hour is observed during morning and evening peaks.
- Ramping requirement is taken care through scheduling of fast acting hydro generation

Moving to 5-minute Metering



- CEA National Electricity Plan (Dec-2016)-draft analyzed hourly data of three years and estimated All India Load profile and Net load curve for 2021-22.
- High ramping up and down requirements are there especially in the peak and off-peak times

Moving to 5-minute Metering



Ramp management through 5-minute schedule is easier than with 15-minute schedule. In case of 15-minute despatch, there is always possibility of over-scheduling or under-scheduling resulting in large deviations from schedule.

Moving to 5-minute Metering

Other advantages:

- **Economy in System Operation.**
- **Implementation of Automatic Generation Control (AGC) and Fast Response Ancillary Services from Hydro Stations.**
- **NERPC to consider all aspects and take a view about the roadmap for transition.**

