



AGENDA NOTES FOR 16th TCC AND 16th NORTH EASTERN REGIONAL POWER COMMITTEE MEETING

1. MEETING SCHEDULE

SN	Meeting	Date	Time	Venue
1	TCC	29/01/2016	10:00 Hrs	“Taj Vivanta,” Guwahati
2	NERPC	30/01/2016	10:00 Hrs	“Taj Vivanta,” Guwahati

2. CONFIRMATION OF THE MINUTES OF 15TH TCC MEETING & 15TH NERPC MEETING

The minutes of the 15th TCC and 15th North Eastern Regional Power Committee (NER Power Committee) meetings held on 20th & 21st August, 2015 at Guwahati were circulated vide letter no. NERPC/OP/Committee/2015/3988-4059 dated 21.09.2015.

No comments or observations were received from any constituents, the TCC and NER Power Committee may confirm the minutes of above meetings.

3. ARRANGEMENT OF AGENDA OF 16th TCC MEETING & 16th NERPC MEETING

SN	Description	Category
1	ITEMS FOR DISCUSSION	A
2	ITEMS FOR APPROVAL	B
3	ITEMS FOR INFORMATION	C



CATEGORY – A: ITEMS FOR DISCUSSION

ITEM NO. A.1 : T-CONNECTION AT BHALUKPONG SUB-STATION – NERPC

The T-connection at Bhalukpong remains pending since long.

Arunachal may inform Action Plan.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.2 : FREQUENT TRIPPING OF 33 KV SYSTEM OF DOP, ARUNACHAL PRADESH AT NIRJULI AND ZIRO – NERPC

The frequent tripping of 33kV system of DoP, Ar. Pradesh is matter of concern. The issue was discussed since 9th TCC meetings. The present status of tripping of 33kV Feeders at Nirjuli and Ziro Sub Station is as below:

(a) No. of Trippings of 33kV Feeders at Ziro

SN	Feeder	Jan'10 – Jul'15		Aug'15 - Dec'15	
		Total	per Month	Total	per Month
1	Kurung- Kamey	1200	18	88	18
2	Old Ziro Feeder	716	11	31	6
3	Kimin Feeder	2123	32	134	27
Grand Total =		4039	61	253	51

(b) No. of Trippings of 33kV Feeders at Nirjuli

SN	Feeder	Jan'10 – Jul'15		Aug'15 - Dec'15	
		Total	per Month	Total	per Month
1	AP – 1	344	5	16	3
2	AP – 2	742	11	6	1
3	AP – 4	280	4	45	9
Grand Total =		1366	20	67	13

Necessary action is required to be taken on priority to reduce the no. of faults in 33kV downstream feeders to avoid frequent failure of transformers at Nirjuli and Ziro Sub Stations.



Corrective measures by Arunachal to reduce Tripping / failure of Transformers may please be intimated.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.3 : COMPLETION OF ATS OF PALLATANA IN AP - POWERGRID

ATS of Palatana in Arunachal Pradesh is scheduled for commissioning as follows:

SN	Transmission System	Schedule Commissioning
1	132KV D/C Pasighat-Roing line including associated line bays at Pasighat and 132/33KV Roing Sub Station	March, 2016
2	132KV D/C Roing-Tezu line including 132/33KV Tezu Sub Station	May, 2016
3	132KV D/C Tezu-Namsai line including 132/33KV Namsai Sub Station	July, 2016

Arunachal Pradesh is requested to complete 132KV Along-Pasighat line as well 33KV downstream system at Roing, Tezu & Namsai matching with the above schedule. Ar. Pradesh may update the progress and tentative completion of 132kV Along – Pasighat line.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.4 : SIGNING OF POWER PURCHASE AGREEMENT (PPA) IN RESPECT OF SUBANSIRI LOWER HE PROJECT (2000MW) IN AR. PRADESH – NHPC

As per the request of Govt. of Arunachal Pradesh, NHPC modified clause No. 11 (Free Power) & revised draft PPA sent on 23.06.2015. During 27th CCM, Arunachal Pradesh requested NERPC to enlighten Arunachal as to how NERPC can help in the energy accounting. NERPC deliberated that matter is bilateral and both NHPC and Ar. Pradesh should take up with MOP since allocation of power including free power is to be done by the Ministry of Power.

Arunachal Pradesh is requested to sign PPA in respect of Subansiri Lower H.E. Project (2000 MW) and modalities of recovery of advance along with the interest may be signed later on.



Both the parties will separately discuss the issues on modalities of recovery of loan from surrendered 50% free power.

Ar. Pradesh may update the action plan.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.5 : SHARING OF TRANSMISSION CHARGE OF BISHWANATH CHARIALI TO AGRA HVDC LINK: - APDCL

Assam informed that Members are aware of the HVDC transmission system associated with North East Region connecting the Northern and Western Regions. Interconnector is commissioned connecting the NE Region directly with Northern and Western Region with the aim of evacuation of surplus power from Subansiri Lower HEP and Kameng HEP and other such Hydro Projects of NER to other Regions of the country. Already power from these two projects has been allocated by MOP to NER, North and Western regions. But unfortunately the Inter State Generating Stations (ISGS) associated with this Network are yet to be commissioned. It is also worth mentioning that, as on date, so far as need of the NER is concerned the region does not have the requirement of such costly HVDC network. Some portion of the newly commissioned AC systems is being used by NER.

Meanwhile, Power Grid has already filed tariff petition of this transmission network before the CERC which is under process of hearing. APDCL, in its reply submission to CERC on the tariff petition, has mentioned about all these facts of HVDC Network in regional perspective. As the associated ISGS units are not yet commissioned, APDCL feels that the tariff of the HVDC Transmission Systems may be considered as deferred revenue on utilization as envisaged.

The Forum may kindly deliberate on the issue and resolved an amicable solution.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.6 : COMMISSIONING OF +/-800kV BISHWANATH CHARIALI -AGRA HVDC LINK: - APDCL/TSECL

1. POWERGRID has already commissioned the +/-800 KV Bishwanath Chariali-Agra HVDC with associated AC links and it has also filed tariff petition before CERC in this connection. At present power is flowing through the HVDC link in bidirectional mode. But it is found that such flow seems to be not incidental flow. NLDC/ NERLDC is often diverting power to the tune of 900 MW through



this link even by restricting normal ER import through the existing AC link in between ER-NER and that too without prior intimation to Beneficiaries. As the POC tariff mechanism is distance, direction and quantum sensitive, such diversion of flow through ER-NR-NER results increase bill amount of APDCL and other Beneficiaries. APDCL therefore urges the Forum:

- A)** To direct NLDC/ RLDC not to divert unilaterally any such flow which may result increase POC for regional Beneficiaries.
- B)** Any Network shut down for maintenance be so arranged such that these do not hamper normal flow of power through the shortest route.
- C)** To examine and assess the quantum of increase of POC bill amounts, if any, during the period up to the present date.

The Forum may kindly deliberate on the issue.

TCC Deliberation :

NERPC Deliberation :

- 2.** Tripura in the meantime informed that Commissioning of 800kV HVDC from Biswanath Charali to Agra done in September 15, but curtailment of Open access transaction on bilateral & IEX due to net work congestion is noticed during Nov15 & Jan 16. POSOCO may highlight on the issues.

The Forum may kindly deliberate on the issue.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.7 : REDUCTION OF GAS SUPPLY TO PALLATANA GBPP - AEGCL

Assam informed that out of the two running units of OTPC, one unit suddenly boxed up on 28.11.2015 at 12:52hrs without any advance intimation. OTPC, Pallatana the largest regional thermal power station of NER with cheapest fuel tariff has been curtailed of its fuel gas supply by ONGC from its original allotment quantum of 2.65 MMSCMD to 1.68 MMSCMD from around November' 2015 onwards. When the matter enquired, it was found that this was due to reduction of gas supply from ONGC. The cause of the reduction of gas supply to OTPC by ONGC is best known to them. The reduction in generation from OTPC has created power shortage in Assam as well as the other states of NER. Assam is managing this shortage by purchasing power at higher cost from the power exchange. As OTPC is a regional project, prior consent should have been taken by OTPC/ONGC to reduce the availability of the beneficiaries.



The matter was discussed in the last two OCC meeting held in the month of December, 2015 and January, 2016. But no concrete solution came out to remove this problem. So, the matter is forwarded to the honourable TCC/RPC to resolve the issue and to restore power supply from both the units of OPTC at an early date to remove the shortage of power availability in NER as Kopili power project is going to take shut down for two months from 20th February, 2016.

The Forum may kindly deliberate on the issue.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.8 : APPRAISAL ON REVIEW PETITION OF APDCL ON PoC - APDCL

As advised in the 15TH NERPC Meeting APDCL has filed a review petition in the matter of exorbitant hike of POC Charges following implementation of CERC Sharing Regulations(3RD Amendment). The Commission in its hearing dated 19.11.2015 admitted the Petition for further hearing and also directed the technical staff of the Commission to convene a meeting with APDCL to discuss the related issues. Accordingly the Commission staff arranged a meeting on 11TH December' 2015 with representative of APDCL, NERPC and NLDC. As per direction of the Commission in its ROP dated 19.11.2015 the Petitioner also filed a rejoinder submission to the Commission on 19TH January' 2016.

As a part of 'Action taken Report' a brief presentation in this regard is placed by APDCL for appraisal of the Forum.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.9 : UPCOMING GENERATING STATIONS IN NER UNDER JV/IPP MODE - APDCL

Numbers of big Hydro projects are coming up/ proposed to be set up in NER under JV/IPP Mode. For planning of Associated Transmission System of such projects MOP involves itself through CEA and Transmission Service Provider(s). Already such a thermal project OPTC is commissioned as regional project in NER. In the same way for early harnessing of zero fuel cost (water energy), the Forum may perhaps take up the issue with MOP to evolve a tentative share allocation formula on regional/national basis depending on the size of the project on the basis of state wise Yearly Central Plan Assistance divided by Total Yearly Central Plan Assistance to all the states of the country who need such power.

The Forum may deliberate and advise the MOP accordingly if it is agreed.

TCC Deliberation :

NERPC Deliberation :



ITEM NO. A.10 : ISSUES RELATED TO 100MW POWER SUPPLY TO BANGLADESH FROM TRIPURA (TSECL) – NERLDC

a. Overloading of 400/132 kV, 125 MVA ICT at Palatana:

A system study has been carried out by NERLDC for checking the load flow in Tripura system as well as NER Grid when 100 MW of Power will be exported to Bangladesh. It has been observed that during peak hours loading of 400/132 kV, 125 MVA ICT at Palatana will increase when there is high generation of Palatana / low generation of Monarchak /outage of 132 kV Silchar – P K Bari D/C lines / low generation of AGTPP / Monarchak or a combination of above. Further it is observed that the overloading is best tackle by reducing the drawal by TSECL.

System Studies are attached at **Annexure -A.10**

To address the above issue and fulfill N-1 criteria, it is required to expedite commissioning of 2nd 400/132 kV, 125 MVA ICT at Palatana, 400 kV Silchar-Melriat D/C (charged at 132 kV) & its downstream system & completion of 3rd 132 kV line bay at Palatana.

The Forum may kindly deliberate on the issue.

TCC Deliberation :

NERPC Deliberation :

b. Protection System in TSECL for reliable power supply to Bangladesh:

As on date, no main protection system is in place in many of important lines of Tripura system and any delayed tripping in their system may affect the power supply to Bangladesh.

The issue was discussed in several PCC meeting & it was requested to TSECL to provide the status of protection system in their substations for providing reliable power supply to Bangladesh. But no positive response is forthcoming from TSECL side.

It may please be noted that in absence of adequate protection system, power supply to Bangladesh as well as Southern part of NER Grid may be affected.

The Forum may kindly deliberate on the issue.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.11 : SIGNING OF POWER PURCHASE AGREEMENT (PPA) IN RESPECT OF TAWANG – I & II HE PROJECT (1400MW) IN AR. PRADESH – NHPC

Drafts PPA have been sent to Assam, Manipur, Tripura, & Mizoram on 24.09.2014 for early signing of PPA in respect of Tawang-I & II H.E.Projects, in Arunachal Pradesh.



All concerned beneficiaries are requested to give consent for signing of PPA at the earliest.

TCC Deliberation :
NERPC Deliberation :

ITEM NO. A.12 : NON – PARTICIPATION BY CONSTITUENTS IN SUB-COMMITTEE MEETINGS OF NERPC - NERPC

It has been observed that constituent States viz. Ar. Pradesh, Mizoram, Nagaland and of late Tripura were not attending the Sub-committee meetings except OCC of NERPC on many occasions despite the same is being conducted at Guwahati in line with the earlier decision of NERPC for more participation. As a result many important issues often cannot be discussed and resolves in stipulated time frame. Issue may be discussed for regular participation of constituents

TCC Deliberation :
NERPC Deliberation :

ITEM NO. A.13 : SETTING-UP/UP-GRADATION OF SLDCs IN NER - NERPC

Setting up of SLDCs in NER was agreed in 14th TCC/NERPC Meeting. Accordingly, job has been taken up by POWERGRID and the present status (as per 2nd NETeST meeting) is as below:

UPGRADATION OF SLDCs

SN	State	Completion Target
1	Assam	15.02.2016
2	Tripura	31.03.2016
3	Meghalaya	31.03.2016
4	NERLDC	28.02.2016

NEW SLDCs

SN	State	Completion Target
5	Manipur	30.09.2016
6	Nagaland	30.09.2016
7	Mizoram	30.09.2016
8	Arunachal	30.09.2016

GPRS connectivity (under SLDC up gradation project cost) for RTU-SLDC: SCADA: Further as suggested by Different utilities, POWERGRID may explore connectivity of different RTU locations of different states through GPRS connectivity. Tentative Cost Estimate as intimated by POWERGRID is **Rs 1.0 Crore (Approx)**. Put up for approval.

The Forum may kindly deliberate on the issue.

TCC Deliberation :
NERPC Deliberation :



ITEM NO. A.14 : STATUS OF IMPLEMENTATION OF R&M OF PSDF: - NERPC

The status of progress of R&M under PSDF is being monitored every month by NERPC and the Sub-committee requested all constituents to complete the proactive actions like taking Board's approval, floating of NITs, selection of bidders etc., as directed by the Hon'ble CERC.

NERPC Secretariat was in constant touch with all the NER States for expediting the process, however, the progress is very slow.

During the meeting held on 11.12.2015 at CEA, New Delhi, the forum expressed concerned about delay in disbursement of fund and execution of R&M Projects.

The NER States may kindly update the status of following:

1. Signing of Tripartite Agreement.
2. Status of award of contract (awarded cost in Rs lakhs)
 - a. upto Q3 - 2015-16
 - b. Q4 - 2015-16
 - c. Q1 - 2016-17
 - d. Q2 - 2016-17
 - e. Q3 - 2016-17
 - f. Q4 - 2016-17
3. Funds Requirement for above "a" to "f"

Issue may be kindly deliberated.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.15 : UP GRADATION OF 2X50 MVA, 132/33 KV IMPHAL (PG) S/S TO 7 X105 MVA, 400 KV SUB-STATION - MSPCL

It may be recalled that in the 4th Meeting of Standing Committee on Power System Planning of North Eastern Region held on 13th December 2014 at Guwahati the issue of up-gradation of Silchar-Imphal 400 kV D/C line to its rated voltage was discussed and this invariably requires up-gradation of 132 kV Imphal(PG) sub-station to a 400 kV sub-station. Manipur also informed in the Committee Meeting that the State has taken up construction of 400 kV sub-station at Thoubal and it was decided to upgrade 2x50 MVA, 132/33 kV Imphal(PG) sub-station to 400 kV sub-station with the following scope of work:



- a. Up gradation of 2x50 MVA 132/33 kV Imphal (PG) S/S to 400 kV by addition of 7x105 MVA 400/132 kV single phase transformers (one spare).
- b. 2 nos. 400 kV GIS bays at Silchar (PG)
- c. 2 nos. 400kV bays at Imphal (PG)
- d. 80 MVAR bus reactor at Imphal (PG)
- e. Adequate space for future 400 kV and 132 kV bays at Imphal (PG).

Further, in the 5th Meeting of Standing Committee on Power System Planning of North Eastern Region held on 8th August, 2015 at Imphal it was agreed to provide space for the 2 no. 400 kV line bays at Imphal (PG) and the bays would be built by MSPCL.

The Central Electricity Authority, Govt. of India, while vetting DPR for 400 kV sub-station at Thoubal advised to charge the sub-station at 400 kV since by the time the project is implemented 400 kV sub-station at Imphal (PG) would be available with a view that construction of 400 kV sub-station at Imphal (PG) along with operation of Silchar–Imphal 400 kV D/C line at its rated voltage has been agreed in the 4th Standing Committee Meeting of NER on Power System Planning held at Guwahati.

Now, the construction of 3x105 MVA (Single-phase), 400/132 KV sub-station at Thoubal is in good progress and Hon'ble Chief Minister desires to commission it by June, 2016. However, without a matching 400 KV sub-station at Imphal (PG), the efforts of the State Government seems futile.

PGCIL may kindly expedite the construction of 400 kV sub-station at Imphal (PG) at the earliest to commensurate with the completion of the 400 kV sub-station at Thoubal.

The Forum may kindly deliberate on the issue.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.16 : CONSTRUCTION OF 2X12.5 MVA 132 kV SUB-STATION AT TIPAIMUKH BY LOOPING-IN AND LOOPING-OUT OF EXISTING 132 KV TRANSMISSION LINE FROM JIRIBAM TO AIZAWL (OWNED BY PGCIL) - MSPCL

Presently, there is no high voltage sub-station in Tipaimukh area of Churachandpur District, Manipur. The area of Tipaimukh is presently fed through long 11kV feeder, 120 km away from 33/11 kV sub-station at Thanlon which is again 150 km away from the nearest feeding 132/33 kV sub-station at Churachandpur.



The electrified villages in this Sub-Division get very low voltage though the load requirement of the area is around 5 MW. Therefore, it has become imperative to establish a 132 kV sub-station at Tipaimukh to provide 24x7 quality power to the surrounding villages.

Meanwhile, a 132 kV transmission line from Jiribam to Aizawl (owned by PGCI) passes through Tipaimukh area. During the recent visit of MD, MSPCL to Jiribam, it has been noted that the maximum recorded loading on the line is around 20 MW.

It is also understood that Silchar- Melriat 400 kV D/C line is under construction as an Associated Transmission System of Pallatana and Bongaigaon Power Plant and the loading on the above line is expected to be reduced. Taking up another 132 kV line either from Churachandpur or Jiribam may face ROW issues and Forest & Environmental Clearance issues. Hence the best option available is connection to the Grid by loop-in and loop-out on the existing 132 kV transmission line from Jiribam to Aizawl (owned by PGCI). As the expected loading in this upcoming substation will be about 5 MW, there may not be any system corruption.

PGCI is requested to permit the construction of the sub-station with LI-LO on the above line

TCC may kindly deliberate and approve the proposal of MSPCL for connection to the Grid by loop-in and loop-out of existing 132 kV transmission line from Jiribam to Aizawl (owned by PGCI).

The Forum may kindly deliberate on the issue.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.17 : OUTSTANDING DUES OF POWERGRID AGAINST NER CONSTITUENTS - POWERGRID

The total outstanding dues of POWERGID's from NER beneficiaries as on 31.12.15 is as under-



SN	CONSTITUENTS	Total Outstanding (Including Surcharge)	Outstanding more than 60 days	(Surcharge)
1	Ar. Pradesh	4.36	0.00	0.00
2	ASEB (Assam)	127.11	60.60	0.91
3	Manipur	5.39	0.00	0.00
4	MeECL (Meghalaya)	34.27	19.18	0.00
5	Mizoram	12.12	5.88	0.00
6	Nagaland	-0.03	0.00	0.00
7	TSECL (Tripura)	-0.80	0.00	0.00
TOTAL =		182.42	85.66	0.91

The total outstanding as on 31/12/2015 is Rs. **182.42** Crore. Out of total outstanding, it may be seen that outstanding against AEGCL & MeECL are on much higher side amounting to Rs 127.11 Crores and Rs. 34.27 Crores which is almost 06 months receivable. AEGCL & MeECL are requested to liquidate the outstanding.

Constituents are requested to clear the outstanding dues immediately.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.18 : STATUS OF LETTER OF CREDIT : POWERGRID

POWERGRID informed that MeECL has not opened/Renewed/Enhanced Letter of Credit since 10.12.2013 & TSECL has not enhanced LC amount as per requirement:

Constituents are requested to enhance and open immediately.

ITEM NO. A.19 : DEVIATION CHARGES OUTSTANDING – NERLDC

Status of Deviation charges outstanding as on 15.01.2016 is attached (**Annexure-A.19**). From the same it can be seen that Assam (Rs. 24.7 Crores), Ar. Pradesh (Rs. 7.4 Crores), Manipur (Rs. 4.5 Crores) and Nagaland (Rs. 3.3 Crores) are major defaulters.



Assam and Manipur has outstanding of more than 13 weeks (90 days).

CERC in order dated 02.09.2015 in **Petition No: 142/MP/2012 with I.A. 7/2013** has stipulated denial of Open Access in case of default in payment of UI/deviation charges, transmission charges, reactive energy charges, congestion charges and RLDC fees and charges for more than 90 days.

All are requested to take note of above and clear outstanding to avoid regulatory measures.

TCC Deliberation :

NERPC Deliberation :

**ITEM NO. A.20 : NON PAYMENT OF NERLDC FEES AND CHARGES BILLS
- NERLDC**

NERLDC is raising the bills on monthly basis on the 1st working day of every month in Terms of the CERC (fees and charges of RLDC and other related matters) Regulation, 2015.

The status of latest outstanding is as below:

Mizoram : Rs. 16.77 lacs (4 months charges due)

Mizoram is requested to streamline the system of payment.

TCC Deliberation :

NERPC Deliberation :

**ITEM NO. A.21 : OPENING OF LC AGAINST DEVIATION CHARGES
LIABILITY - NERLDC**

As per DSM charges and related matters Regulations, 2014 of CERC, following are the LC amounts pertaining to NER entities and they are required to open LC accordingly:

NER entities	LC Amt (in Lakhs)
AP	89.13
ASSAM	438.07
MANIPUR	46.68
MeECL	13.57
MIZORAM	59.38
NAGALAND	96.33
TRIPURA	211.74



Till date none have opened LC.

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

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.22 : OUTSTANDING DUES OF NHPC AGAINST MeECL FOR MORE THAN 60 DAYS - NHPC

MeECL, Meghalaya: - As on date, total amount of **₹27.62 Crs** (Including surcharge of **₹6.45 Crs up to 31.12.2015**) is due against MeECL, Meghalaya. Meghalaya is not liquidating the total dues inspite of our regular follow-up. During 27th CCM held on 1st Dec' 2015, MeECL had assured that they will liquidate some of their outstanding dues of NHPC at the earliest. But no payment has been released by Meghalaya till date.

As such, amount outstanding beyond a period of 60 days shall continue to attract late payment surcharge at the rate of 1.50% per month as per CERC (Terms & Conditions of Tariff) Regulations, 2014.

MeECL, Meghalaya may be impressed upon to liquidate their total dues.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.23 : OPENING / MAINTAINING OF LETTER OF CREDIT (LC) - NHPC

Manipur: - In view of enhancement of share allocation including the unallocated quota of power from Loktak Power Station Manipur has to provide 'Letter of Credit' amounting to **₹4.87 Crs** in place of existing L.C. of **₹3.05 Crs**. Last reminder sent to MSPDCL on 29 .12.2015 for the same.

Manipur may be requested to furnish the 'Letter of Credit (LC)' of requisite amount on top priority.

TCC Deliberation :

NERPC Deliberation :

ITEM NO. A.24 : OUTSTANDING DUES OF OTPC AGAINST NER BENEFICIARIES - OTPC

The current total outstanding dues of OTPC against the NER beneficiary states (as on 22-01-2016) are as under:



Amount in Rs Crores

Sl.No.	Beneficiary	Outstanding Dues (>60 Days)	Total Outstanding
1	Arunachal Pradesh	-	4.870
2	Assam	-	20.885
3	Manipur	-	9.103
4	Meghalaya	15.443	33.624
5	Mizoram	-	5.160
6	Nagaland	-	0
7	Tripura	65.822	111.997
Total		81.265	185.64

The total outstanding dues as on 22-01-2016 are Rs 185.64 Crores out of which outstanding beyond 60 days is Rs 81.265 Crores. Constituents are requested to clear at least the outstanding dues over 60 days, at the earliest.

ITEM NO. A.25 : STATUS OF PAYMENT SECURITY MECHANISM OF THE BENEFICIARIES REQUIRED AGAINST MONTHLY ENERGY BILLING AS PER POWER PURCHASE AGREEMENT AND CERC REGULATIONS - OTPC

Sl No.	Beneficiary	Letter of Credit (LC) required as per PPA (Rs Crore)	LC amount status (Rs Crore)	Valid Upto	Remarks
1	Ar. Pradesh	11.62	11.62	31-Mar-2016	Kindly renew in time
2	Assam	40	40	31-Dec-2015	Yet to be renewed
3	Manipur	16.519	3.7	11-June-2015	Yet to be renewed even after constant persuasion
4	Meghalaya	29.78	-	-	Meghalaya has never provided the LC even after continuous persuasion
5	Mizoram	7.5	5.81	7-May-2015	Yet to be renewed
6	Nagaland	14.26	14.26	20-Mar-2016	Kindly renew in time
7	Tripura	46.53	18	19-Mar-2016	Kindly enhance the LC and renew in time



CATEGORY – B: ITEMS FOR APPROVAL

ITEM NO. B.1 : VIDEO CONFERENCING (VC) IN NERPC SECRETARIAT – NERPC

The issue of setting up of VC in NERPC was discussed with POWERGRID and they intimated that supply & installation of VC for NERPC will be carried out by them. As per information from POWERGRID one set of VC with MCU is kept for NERPC under NERLDC SLDC SCADA EMS gradation LOA. But the same is yet not dispatched to NERPC.

During 1st TeSt meeting it was agreed that:

- 1) In line with ERPC, NRPC-other region, one no. VC system with MCU under SLDC upgradation project is to be provided by NERLDC to NERPC for smooth functioning of NERPC for grid monitoring purpose, SD arrangement, meeting etc. Target-December, 2015.
- 2) POWERGRID would provide two links, one for SCADA and other for VC from NERLDC main to NERPC within 30/11/2015. Links may be taken from POWERTEL as required.

Further NERTS requested that one no. 3x2 VPS is proposed to be procured for CTU (under SLDC SCADA Project- new item under new heading) for assisting for grid management purpose which will be provided to NERTS CPCC for better coordination of system operation as an support coordination to RLDC/SLDC for managing POWERGRID station from a common center. Forum agreed in principle and requested to submit the cost.

After detailed deliberation, it was agreed that the VC, SCADA & PMU links will be completed by 25.01.2016 and the same link with consoles will be commissioned by February, 2016. NERLDC will take necessary action to install the VC unit and PDC/SCADA client in NERPC accordingly. Regarding Internet link, Manager (AM), NERTS informed that the work will be taken up separately soon.

Further the cost of VPS for NERTS as consented in 1st NETeST to be procured under SLDC Upgradation scheme (with a new heading under central sector scope) is Rs. 73 lakhs (approx).

The NETeST Sub-committee agreed. Put up for approval of TCC/RPC

TCC Deliberation :

NERPC Deliberation :



ITEM NO. B.2 : UCC MEETING – NERPC

During 111st OCC meeting, all the constituents agreed that UCC meeting, presently coordinated by NERLDC, should be a part of Sub-committee meeting of NERPC and necessary amendment of Conduct of Business Rules (CBR) of NERPC in this regard may be endorsed. This is in line with the practice followed in Northern Region.

NERPC informed that as agreed during the 1st TeST meeting, NERPC has to finalize the CBR and get the endorsement for amendment of Conduct of Business Rules (CBR) of NERPC in the next NERPC Board Meeting. The composition of members of TeST and also the various functions of this sub-committee was discussed in 1st TeST meeting and during the 1st TeST meeting, it was agreed that constituents would be represented by officials of the rank of Superintending Engineer/GM/Head of Communication & Logistics. The convener of meetings would be Superintending Engineer of NERPC.

Functions:

TeST Sub-Committee shall carry out the following works:

- a. To coordinate and resolve issues related to Planning, Commissioning and Maintenance of SCADA, EMS and PMU related applications.
- b. Planning, Monitoring and Maintenance of Telecommunication System for data and speech
- c. SCADA & Operation & Maintenance
- d. RTUs and PMUs
- e. Telemetry
- f. Any other issues assigned by NERPC.

Meetings:

As and when required and as decided by the Convener.

The forum unanimously approved the above naming of NETeST Sub-committee, its functions and meeting and requested NERPC to get endorsed in the next TCC/NERPC Meetings.

Placed for approval of TCC/NERPC.

TCC Deliberation :

NERPC Deliberation :



CATEGORY – C : ITEMS FOR INFORMATION

ITEM NO. C.1 : SYNCHRONIZATION OF AGTPP EXTENSION (2 x 25MW)

The status of CoD of AGTPP Extension (2 x 25 MW) of NEEPCO is given below:

- (a) STG – I : Commissioned on 29.07.2015
- (b) STG – II : Commissioned on 01.09.2015

This is for Kind information

ITEM NO. C.2 : COMMISSIONING SCHEDULE OF GENERATION PROJECTS IN NER - NERPC

The proposed dates of commissioning of various Generating Projects in NER are as below:

SN	AGENCY	PROJECT	COMMISSIONING SCHEDULE
1	NHPC	Lower Subansiri	12 th Plan
2	NEEPCO	Kameng HEP	#I & II- November, 2016 & # 3&4 - March, 2017
3	NTPC	Bongaigaon TPS	U#1: 03/16, U#2: 9/16, U#3: 12/17
5	NEEPCO	Tuirial HEP	2017-2018
6	NEEPCO	Pare HEP	2016-2017

This is for Kind information

The Sub-committee also reviewed the status of commissioning of various ongoing projects in NER during OCC Meetings. The status as on last 117th OCC Meeting is as below:

SN	Items	Ant./ Act.
1	Trial operation and CoD of Unit -I of Bongaigoan TPS of NTPC	March, 2016
2	400/220kV, 2x315 MVA ICT of NTPC at Bongaigaon	March, 2016
3	Trial operation and CoD of Monarchak GBPP of NEEPCO	March, 2016



6	400 kV D/C Silchar - Melriat line of PGCIL	September, 2016
7	220kV Rangia - Salakati of AEGCL	June, 2016
8	132kV Monarchak – Surjamaninagar D/C of TSECL	March, 2016
9	400/132 kV, 2nd 125 MVA ICT at Palatana	June, 2016
10	132kV Pasighat – Aalong of Ar. Pradesh	March, 2016
12	132kV Doyang– Wokha	-
13	220 kV, 20 MVAR Bus Reactor at AGBPP	February, 2016
14	132 kV, Surjamaninagar Bay at OTPC	June, 2016
15	63 MVAR Bus Reactor at Byrnihat	

This is for Kind information

ITEM NO. C.3 : IMPLEMENTATION OF AUTOMATIC DEMAND MANAGEMENT SCHEME (ADMS) - NERLDC

Hon'ble CERC directed vide order 5/SM/2014 to submit PERT charts & action plans for Implementation of Automatic Demand Management Scheme (ADMS) by SLDCs of NER and to implement ADMS by 30.06.16. Hon'ble CERC directed RLDCs to submit the report of status of implementation of Automatic Demand Management Scheme (ADMS) by SLDCs of NER by 31.08.16.

SLDCs of NER are requested to furnish monthly report of status of implementation of Automatic Demand Management Scheme (ADMS).

For kind information and necessary actions by NER states

ITEM NO. C.4 : ASSESSMENT OF TOTAL TRANSFER CAPABILITY (TTC), TRANSMISSION RELIABILITY MARGIN (TRM) AND AVAILABLE TRANSFER CAPABILITY (ATC) BY SLDC ON RESPECTIVE INTER-STATE TRANSMISSION CORRIDOR - NERLDC

SLDCs of NER are required to assess the above on monthly basis, 5 months in advance (e.g. TTC/TRM/ATC for the month of May to be calculated by 15th of



January), for further assessment of TTC, ATC and TRM of NER-ER corridor, group of control areas, individual control areas within the region and state-control-area to state-control-area by NERLDC, if required. The same has been discussed in various OCC, PCC & System Study meetings. But as on date no figures/ cases has been furnished to NERLDC. All the SLDCs of NER are requested again to calculate the TTC, ATC & TRM figures and furnish the same to NERLDC every month latest by 15th.

For kind information and necessary actions by NER states

ITEM NO. C.5 : COMPLETIONS OF ACTIVITIES WITHIN SPECIFIED TIME AS PER DIRECTIVES OF CERC VIDE ORDER IN PETITION NO. 113/MP/2014 - NERLDC

As per order in Petition No. 113/MP/2014 of CERC, CERC, inter alia, has directed, to NERLDC/NERPC to submit report to CERC regarding operation of UFR & df/dt relays below the setting, if any, and adequate relief to be made available by concerned states / utilities.

For kind information and necessary actions by NER states

ITEM NO. C.6 : GRID DISTURBANCES IN NER AS PER GRID STANDARDS REGULATION OF CEA W.E.F 01ST JULY, 2015 TO 31ST DECEMBER, 2015. - NERLDC

Sl. No.	Category of GD	Grid Disturbance in nos
1	GD 1	150
2	GD 2	0
3	GD 3	1
4	GD 4	1
5	GD 5	0
Total		152

The major disturbance is briefly as under:

a. Grid Disturbance of Category -III on 08.08.15

There was a major grid disturbance of Category-III in North-Eastern Region that occurred at 00:19 Hrs on 08.08.15, due to simultaneous tripping of 400 kV Silchar – Byrnihat and 400 kV Silchar – Azara lines. Due to the tripping of above two 400 kV lines, the power evacuation from southern part of NER grid shifted to 132 kV Khandong – Kopili D/C and 132 kV Dimapur - Imphal lines. At that time, Meghalaya was injecting around 100 MW to the grid at Khliehriat (PG) due to high generation at Leshka HPP. Due to evacuation of



entire power from southern part of the grid through 132 kV Kopili - Khandong D/C and 132 kV Dimapur - Imphal lines, the lines tripped on over-current resulting in islanding of southern part of NER grid comprising of Tripura, Mizoram, Manipur, South Assam, AGTPP, Loktak, Khandong and Palatana systems from rest of the main grid of NER. The frequency of the islanded system shot upto 53.4 Hz (as reported by TSECL) resulting in immediate tripping of STG II of Palatana, running machines of AGTPP and TSECL. Subsequently, during the process of restoration, Palatana GTG II tripped causing frequency dip to 47 Hz of the isolated system and isolated system collapsed due to load –generation mismatch at 00:31:32.800 Hrs on 08.08.15.

b. Grid Disturbance of Category –IV on 24.09.15

There was a major grid disturbance of Category-IV in North-Eastern Region that occurred at 22:35 Hrs on 24.09.15, due to simultaneous tripping of 400 kV Silchar – Byrnihat and 400 kV Silchar – Azara lines. Due to the tripping of these 400 kV lines, entire power flow between southern part of NER grid and rest of NER Grid shifted to 132 kV Kopili – Khandong I & II lines. Due to high evacuation of power from Southern part of the grid, 132 kV Kopili - Khandong lines I & II lines tripped on over-loading resulting in isolation of southern part of NER grid comprising of Tripura, Mizoram, Manipur, South Assam, part of Meghalaya system along with AGTPP, Loktak and Palatana generation from rest of the main grid of NER. The frequency of the isolated system shot up to around 51.16 Hz resulting tripping of Palatana and AGTPP generation. After that the system frequency of the island started declining very sharply and finally collapsed due to load – generation mismatch.

Further there were nos. of trippings of Grid Lines of NER due non clearance of downstream faults mainly in Manipur and Meghalaya system.

Sl. No.	Control Area	Disturbances w.e.f 01.01.15 to 30.06.15	Disturbances w.e.f 01.07.15 to 31.12.15
1	Manipur	40 Nos.	31 Nos.
2	Meghalaya	25 nos.	28 Nos.

For kind information and necessary actions by NER states

ITEM NO. C.7 : AMC OF OLD SCADA/EMS PACKAGE IN RESPECT OF ASSAM, MEGHALAYA, TRIPURA & NERLDC WEF 16.06.2013 TO 15.06.2015 - NERLDC

As per recommendation of TCC & approved by RPC in the 13th NERPC meeting held at Faridabad, two(2) years extension of AMC for SCADA/EMS Package with M/S ALSTOM was accorded after getting approved by competent authorities and was made effective from **16.06.2013 to 15.06.2015** in respect of Assam,



Meghalaya and Tripura old SCADA system. As the contract is already expired, contract closing activities are in process. However for a small pending amount of Rs 3,60,935/- from AEGCL against off shore for Quarter 16-12-08 to 15-03-09 contract closing activities is delayed .

In addition, an amount of Rs 950883/-is also receivable from AEGCL in the form of overhead charges.

For kind information of SLDC I/Cs of Assam, Meghalaya and Tripura and action by SLDC I/C Assam.

ITEM NO. C.8 : PERFORMANCE OF PMUS IN NER INSTALLED UNDER “SYNCHROPHASOR PILOT PROJECT OF NER”- NERLDC

As approved in the 11th NERPC meeting held at Kolkota, the Pilot project on Phasor Measurement Unit (PMU) in NER for installation of 6 Nos of PMUs was implemented with PMUs installed at Sarusajai (Assam), NEHU (Meghalaya), Agartala (Tripura) and in 3 substations of POWERGRID namely Imphal, Balipara and Bongaigaon. The PMUs are in service for almost three years and the data available are valuable in all aspect of system operation such as analysis of oscillation, protection malfunction, disturbance analysis etc.

For information of members please.

ANY OTHER ITEMS

Additional issues, if any, may please be discussed

DATE & VENUE OF THE NEXT MEETING

The next meeting of 17th TCC & 17th NERPC is proposed to be held in July/August, 2016. The exact date, venue & host will be intimated later.
