

# **EASTERN REGIONAL POWER COMMITTEE**

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**No. ERPC/COM-I/GEN/2018/ 5517-5556**

**Date: 30.10.2018**

## **FAX MESSAGE NO:**

**From: Member Secretary, ERPC**

**To: As per list.**


**Sub: Minutes of 38<sup>th</sup> Commercial Sub-Committee Meeting of ERPC – Reg.**

Sir,

Please find the minutes of the “38<sup>th</sup> Commercial Sub-Committee meeting” of ERPC held on 12<sup>th</sup> October, 2018 (Friday) at ERPC Conference hall, Kolkata at ERPC Website (<http://www.erpc.gov.in>).

Observations, if any, may please be forwarded to this office at the earliest.

Yours faithfully,

  
(J. Bandyopadhyay)  
Member Secretary

### **Distribution List-CC Members:**

1. Director (Project), BSPTCL, Vidyut Bhavan, Bailey Road, Patna-800021.
2. Director (Project), SBPDCL, Vidyut Bhavan, Bailey Road, Patna-800021.
3. Chief Engineer (Commercial), BSPHCL, Vidyut Bhavan, Bailey Road, Patna-800021.
4. Executive Director (Comml.), DVC, Kolkata ( Fax: 033 2355 2129 )
5. Director (Project), JUSNL, Engineering Building, HEC, Dhurwa, Ranchi-834004.
6. Chief Engineer (C&R-JBVNL), JUVNL, Engineering Building, HEC, Dhurwa, Ranchi-834004.
7. Chief Engineer (C&R), JBVNL, Engineering Building, HEC, Dhurwa, Ranchi-834004.
8. Sr. General Manager (PP), GRIDCO, Bhubaneswar ( Fax : 0674 2547180 / 2547261 )
9. General Manager (R&T), OPTCL, Bhubaneswar (Fax: 0674 2542120)
10. Asst. General Manager (F&A), Finance Wing, OHPC, Bhubaneswar(Fax:0674 2542102)
11. Sr. General Manager(Finance), OPGC, Odisha ( Fax: 06645 222225 )
12. Executive Director (RT), WBSEDCL, Kolkata (Fax : 033 2359 8398/2337 3002 )
13. Chief Engineer (Commercial), WBSETCL, Bidyut Bhavan, Block DJ, Sector-II, Bidhannagar,Kolkata-700091 ( 033-23591952)
14. Chief Engineer, SLDC, WBSETCL, Howrah (033 2688 6232)
15. General Manager (Commercial & Operations), WBPDC, Kolkata (Fax:23350582 / 23393286)
16. Chief Engineer (Trans), Deptt. Of Power, Govt. Of Sikkim, Gangtok (Fax:03592 228186)
17. Executive Director, ERLDC, Kolkata (Fax: 033 2423 5029).
18. Director ( GM ), CEA, New-Delhi (FAX: 011 2610 9750 )
19. General Manager (Comml.-ER), NTPC, Corporate Centre, New Delhi ( Fax : 011 24368417)
20. AGM (Comml.), ER – I HQ, NTPC Ltd., Loknayak Jaiprakash Bhawan, 2<sup>nd</sup> Floor, Dak Banglow Chowk, Fraser Road, Patna – 800001. (Fax : 0612-2230035 / 2224287, 2211807)
21. AGM (Comml.), ER – II HQ, NTPC Ltd., 3<sup>rd</sup>, 4<sup>th</sup> & 5<sup>th</sup> Floor, OLIC Building, Nayapalli, Bhubaneswar – 751012, (Fax : 0674-2394857)
22. Chief Engineer (Commercial), NHPC, Faridabad (Fax: 0129 2278358).
23. AGM(Comml.), ER-I, Powergrid, Patna ( Fax: 0612 2227630 )
24. AGM(Comml.), ER-II, Powergrid, Kolkata (Fax NO. 033 2357 2827)
25. AGM (Comml.)Powergrid, Odisha Projects, Sahid Nagar, Bhubaneswar – 751 007.
26. Vice President(Commercial), PTC, New Delhi (Fax: 011 4165 9504 )
27. GM (BD&PS), NVVN Ltd, Scope Complex, Core-3, 7th Floor, Lodhi Road, New Delhi-110003
28. Director Of Accounts, TVNL, Ranchi (Fax : 0651 2251296 / 2253181 )
29. General Manager (SO), CESC Ltd., Kolkata ( Fax : 033 2212 9871)
30. DGM (ALDC), DPL, Durgapur ( Fax : 0343 255- 6786/6251 )
31. Vice-President (OPN-ER), Tata Power Co. Ltd., Jamshedpur (Fax :0657 2277298)
32. Head (Commercial), MPL, MA-5 Gogna Colony, P.O- Maithon Dam, Jharkhand-828207, Fax-8860075658
33. Associate Vice President (CC), GMR Kamalanga Energy Ltd. (GKEL), Bhubaneswar (Fax : 0674 2303994)
34. GM (Power Sales), JITPL, Plot-12, Local Shopping Complex, Sector B-1, Vasant Kunj, New Delhi-110070 (Fax:011 26121734)
35. President (Commercial), APNRL, Crescent Tower, 3rd Floor, Kolkata-700020, Fax-033-3091-5344
36. GM, Teesta Urja Limited, 2nd Floor, Vijaya Building. 17, Barakhamba Road. New Delhi – 110001.
37. Managing Director, Haldia Energy Ltd., 8 Chittaranjan Avenue, 6<sup>th</sup> Floor, Barick Bhawan, Kolkata – 700072.
38. Chief Executive Officer, India Power Corporation Ltd., Plot No. 1, 2 & 3, Block – EP, Sector – V, Salt Lake City, Kolkata – 700091.



# **MINUTES OF THE 38<sup>TH</sup> COMMERCIAL SUB COMMITTEE MEETING OF ERPC**

**Date: 30<sup>th</sup> October, 2018**

**Eastern Regional Power Committee  
14, Golf Club Road, Tollygunge  
Kolkata-700033**

**EASTERN REGIONAL POWER COMMITTEE**  
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**MINUTES OF THE 38th COMMERCIAL SUB-COMMITTEE MEETING OF ERPC  
SCHEDULED TO BE HELD ON 12.10.2018 (FRIDAY) AT 11:00 HRS AT ERPC, KOLKATA**

List of participants is at **Annexure-A**.

**ITEM NO. A1: Confirmation of the minutes of the 37<sup>th</sup> Commercial Sub-Committee meeting held on 11.06.2018**

The minutes of the 37<sup>th</sup> Commercial Committee meeting were intimated vide ERPC letter No-ERPC/COM-I/GEN/2018/1528-1559 dated 14.06.2018. No request for amendment has been received by ERPC Secretariat.

*Members may confirm the minutes of the 37<sup>th</sup> Commercial Sub Committee Meeting.*

**Deliberation in the meeting:**

Members confirmed the minutes of the 37<sup>th</sup> Commercial Sub Committee meeting.

**PART B: ITEMS FOR DISCUSSION**

**ITEM NO. B1: Payment/Receipt Status from various pool accounts in ER**

**B1.1: Payment of Deviation Charge – Present Status.**

The status of Deviation Charge payment as on 26.09.2018 is enclosed at **Annexure – I**. The current principal outstanding Deviation Charge of BSPHCL & JUVNL is ₹ 16.26 Cr & ₹ 12.57 Cr respectively considering bill up to 09.09.2018. ERLDC has given reminders to BSPHCL & JUVNL to liquidate the outstanding Deviation charges.

Further SIKKIM & APNRL is not paying DSM charges in Pool since last 4-5 Years and waiting for adjustment with the receivable amount.

SIKKIM & APNRL may please pay the Payable amount as per bill within due date instead of waiting for adjustment.

*ERLDC may please update, if any.*

*BSPHCL, JUVNL, SIKKIM & APNRL may confirm the program for payment of outstanding dues.*

**Deliberation in the meeting:**

ERLDC updated that the current outstanding deviation charges of BSPHCL & JUVNL are ₹ 18.46 Cr & ₹ 18.68 Cr respectively.

JUVNL, Sikkim & APNRL representatives were not present.

It was decided that ERPC Secretariat would write a letter to the above constituents to liquidate the outstanding amount by 10th Nov, 2018 failing which this issue would be taken up in the forthcoming TCC meeting.

### **B1.2: DSM Account Mismatch between ER & NR**

A huge mismatch between DSM accounts for ER-NR Link published by ERPC & NRPC has been observed since April 2018. Prior to April 2018 such mismatch was not significant. Actual Meter data of ER-NR Inter regional link, published in NRPC DSM Bill is matching with ERPC/ERLDC/NRLDC Actual SEM data. However, Schedule energy data of ER-NR Inter regional link published in NRPC DSM statement is not matching with ERPC data. It was gathered that some software related issue at NRPC is the main reason for this mismatch. DSM statement for ER-NR Link prepared by ERPC secretariat is correct.

Such huge mismatch in two DSM account is causing problem in settlement of DSM as well RRAS account. A consolidated statement of ER-NR Inter regional DSM Bill issued by NRPC & ERPC is given in **Annexure-II** for reference.

*Members may discuss.*

#### **Deliberation in the meeting:**

ERLDC elaborated that the issue regarding the mismatch of DSM & RRAS accounts was due to the accounting software problem at NRPC.

ERLDC further informed that the accounts were found to be matching from 03.09.2018

It was informed that ERLDC had already been taken up the issue with NRPC through NRLDC in for sorting out the issue and for the revision of respective accounts prior to 03.09.2018.

### **B1.3: Non-payment of Deviation Charges by IBEUL**

IBEUL is not paying Deviation charges in ER DSM Pool since 12.04.2017 (almost one & half year) and present outstanding amount payable by M/s IBEUL towards principal deviation charges is **₹ 112.50429 Lac** considering bill up to 09.09.2018 and ₹ 15.81842 Lac against the delayed payment interest of deviation charges till 30.09.18. Petition in CERC in July 2018 has been filed against M/s IBEUL for violation of Regulation 10 of DSM regulations 2014.

*IBEUL may confirm the program for payment of outstanding dues.*

#### **Deliberation in the meeting:**

IBEUL representative was absent.

ERLDC informed that the outstanding deviation charges and interest charges were not being paid from a long time. A petition in CERC had been filed in July 2018 by ERLDC against M/s IBEUL for violation of Regulation 10 of DSM regulations 2014.

#### **B1.4: Interest due to delayed payment of deviation charges**

Outstanding deviation charges including interest for all the ER constituents (except Vedanta of ₹ 3, 51,637 towards interest) along with Inter-regional Pool during FY 2016-17 are fully settled. Issue of Outstanding Interest i.r.o Vedanta was also discussed in 36th CCM & 37th CCM. In 37th CCM, GRIDCO assured that the issue related to outstanding of M/s Vedanta would be resolved positively by 25th June 2018 and they would confirm it in forthcoming TCC Meeting. However Vedanta/GRIDCO is yet to make the payment.

Further due to delayed payment of deviation charges in DSM Pool in FY 2017-18, Interest was computed for all the DSM Pool Member. ERLDC vide letter No. पूक्षेभारप्रेके./एम.ओ/यू-11 / 2126 dated 26.06.18 was issued the interest statement for FY 2017-18.

The statement of interest amount is enclosed in **Annexure-III**. Settlement of delayed payment Interest for 2017-18 for the recipient constituents has been done on 01.06.18. SIKKIM & IBEUL are yet to clear the outstanding Interest amount of 2017-18.

*GRIDCO/Vedanta for 2016-17 and IBEUL & SIKKIM for 2017-18, May Please confirm the program for payment of Interest.*

#### **Deliberation in the meeting:**

ERLDC informed that the outstanding charge of Vedanta for FY 2016-17 has been settled. The house appreciated the efforts of GRIDCO for resolving the issue.

IBEUL & SIKKIM representatives were not present.

It was decided that ERPC Secretariat would write a letter to the concerned utilities to release the outstanding amount at the earliest.

#### **B1.5: Reactive Energy Charges --- Present Status.**

The updated position of Receipt/Payment of Reactive Energy Charges in the pool as on 26.09.2018 (considering bill up to 09.09.2018) is indicated in **Annexure –IV**. The total outstanding receivable on account of Reactive charges from West Bengal is ₹ 2.68 Cr & from SIKKIM is ₹ 5.19 Lac. SIKKIM has not paid the Reactive energy Charges since more than last one year. JUVNL has also the outstanding of ₹ 2.20 Lac payable to Reactive Pool.

*WBSETCL/WBSEDCL, SIKKIM & JUVNL may confirm the program for payment of outstanding dues*

#### **Deliberation in the meeting:**

WBSEDCL informed that except for ₹ 1.82 Cr, rest of the payment is being done on regular basis.

SIKKIM & JUVNL representative were not present.

It was decided that ERPC Secretariat would write a letter to SIKKIM & JUVNL to clear the outstanding amount by 10<sup>th</sup> Nov 2018.

#### **B1.6: Outstanding reactive energy charge against WBSEDCL**

The reactive amount receivable from WBSEDCL prior to 04.01.2016 is ₹ 1.82 Cr (prior to Suo-moto order dated 21.07.2016 of the Hon'ble WBERC in the matter of case no: SM-14/16-17) which is long pending and not cleared yet.

In 37th CCM, WBSEDCL assured that the payment issue would be resolved by next TCC meeting. However, the outstanding reactive charge is yet to be paid by WBSEDCL.

*WBSEDCL/WBSEDCL may confirm the program for payment of outstanding dues.*

#### **Deliberation in the meeting:**

WBSEDCL assured that the outstanding amount prior to 04.01.2016 would be liquidated in 6 monthly installments starting from end of October, 2018.

The Committee felt that this is a long outstanding due of WBSEDCL and shall be liquidated at the earliest. WBSEDCL was also requested put efforts for clearing the outstanding in lump sum.

#### **B1.7: RRAS Account ---Present Status.**

The updated position of Payments to the RRAS Provider(s) from the DSM pool and Payments by the RRAS Provider(s) to the DSM pool as on 26.09.2018 (considering bill up to 09.09.2018) is indicated in **Annexure – V**. So far ₹ 162.2 Cr have been settled under RRAS in ER during FY 2018-19.

*This is for information to the members.*

#### **Deliberation in the meeting:**

Members noted.

#### **B1.8: Congestion account - Present Status**

The status of congestion charge payment after full settlement is enclosed at **Annexure –VI**.

#### **Deliberation in the meeting:**

Members noted.

#### **B1.9: Status of PSDF**

An amount of ₹ 6.15 Cr from Reactive account have been transferred to PSDF after 37th Commercial sub-committee meeting held on 11.06.18. With this the total amount of ₹ 949.8 Cr has been transferred to PSDF so far. No amount from Deviation pool has been transferred to PSDF A/c since 29.06.16 and surplus amount in deviation pool is being utilized for settlement of RRAS Bill. The break up details of fund transferred to PSDF (till 30.09.18) is enclosed in **Annexure-VII**.

*This is for information to the members.*

#### **Deliberation in the meeting:**

Members noted.

## **ITEM NO. B2: Reconciliation of Commercial Accounts**

### **B2.1: Reconciliation of Deviation Accounts.**

At the end of 1st quarter of 2018-19, the reconciliation statement (Period: 01.04.18 to 30.06.18) has been issued by ERLDC on 09.07.18 and statements had been sent to the respective constituents and also uploaded the same at ERLDC website at <https://erlhc.in/market-operation/dsmreconciliation/>. The constituents were requested to verify /check the same & comments if any on the same were to be reported to ERLDC by 14.08.2018. The status of reconciliation is enclosed in **Annexure-VIII**.

IBEUL have not reconciled the statement for more than one and half year.

Teesta-III & DICKCHU have not signed reconciliation statement for last 2 or more quarter.

BSPHCL, JUVNL, SIKKIM, GMR, TPTCL (DAGACHU), BRBCL, Power grid (ER-II) & NPGC have not signed reconciliation statement for 1st quarter of 2018-19.

Above constituents are once again requested to submit the signed reconciliation statement at the earliest. If the confirmation is not received within 2 weeks from the date of issuance of the letters the statements issued by ERLDC have been deemed to be reconciled.

*Respective members may update.*

#### **Deliberation in the meeting:**

ERLDC informed that the reconciliation statements had been sent to the respective constituents and the same was also uploaded at ERLDC website.

ERLDC informed that Dikchu, BRBCL and Powergrid had reconciled their statements and Teesta-III & IBEUL have not reconciled for last 2 or more quarters.

NPGC assured to reconcile the statements shortly.

JUVNL, SIKKIM, GMR, TPTCL & BRBCL were not present in the meeting.

It was decided that ERPC Secretariat would write a letter to concerned utilities to reconcile the statements at the earliest.

### **B2.2: Reconciliation of Reactive Account**

At the end of 1st quarter of 2018-19, the reconciliation statement (Period: 01.04.18 to 30.06.18) has been issued by ERLDC on 19.07.18 and statements had been sent to the respective constituents and also uploaded the same at ERLDC website at link <https://erlhc.in/market-operation/reactivereconciliation/>. Constituents were requested to verify /check the same & comments if any on the same were to be reported to ERLDC.

*WBSETCL & SIKKIM may please reconcile the Reactive account.*

#### **Deliberation in the meeting:**

It was informed that WBSETCL had reconciled the account and sent the signed statement.

SIKKIM was not present in the meeting.



### **B2.3: Reconciliation of RRAS Account**

At the end of 1<sup>st</sup> quarter of 2018-19, the reconciliation statement (Period: 01.04.18 to 30.06.18) has been issued by ERLDC on 19.07.18 and statements had been sent to the respective constituents (i.e NTPC and BRBCL) and also uploaded the same at ERLDC website at link <https://erlhc.in/market-operation/rrasreconciliation/>. NTPC has reconciled the RRAS Account.

*BRBCL may please reconcile the RRAS account.*

#### **Deliberation in the meeting:**

ERLDC informed that the BRBCL had also reconciled the Account statement and sent the signed statement.

### **B2.4: Reconciliation for STOA payments made to SLDC / STU:**

The reconciliation statements of STOA payments for the period of Apr'18 to Jun'18 have been sent to the DVC, OPTCL and WBSETCL for checking at their end and confirmation from their side. Only DVC has confirmed for the above period OPTCL and WBSETCL are yet to confirm for the above period.

*Respective members may update.*

#### **Deliberation in the meeting:**

ERLDC informed that DVC, OPTCL and WBSETCL had reconciled their statements.

### **B2.5: Reconciliation for payments made to STOA applicants:**

The reconciliation statements of STOA payments for the period of Apr'18 to Jun'18 have been sent to the CESC, JITPL, JUVNL and WBSEDCL for checking at their end and confirmation.

CESC and JITPL have confirmed for the above period. JUVNL and WBSEDCL are yet to confirm for the above period.

As per clause 15.1 of CERC approved STOA bilateral procedure since the confirmations have not been received within 2 weeks from the date of issuance of the letters the statement issued by ERLDC have been deemed to be reconciled. The details are attached in the **Annexure-IX**.

**Since there is a serious audit objection on non-signing of DSM, Congestion and STOA reconciliation statement it is once again requested that all regional pool members may check and sign the statement sent by ERLDC.**

*Members may take necessary action for signing the statements at the earliest.*

#### **Deliberation in the meeting:**

ERLDC informed that CESC, JITPL & WBSEDCL have reconciled.

JUVNL representative was not present in the meeting.

It was decided that ERPC Secretariat would write a letter to concerned utilities to reconcile the statements at the earliest.

### **ITEM NO. B3: Opening of LC by ER constituents for DSM payments**

Clause 10 (4) of CERC Deviation Settlement Mechanism and related matters Regulations, 2014 vide notification No. L-1/132/2013/CERC dated 6<sup>th</sup> January, 2014 to be implemented from 17.02.2014 is reproduced below:

#### ***Quote***

*All regional entities which had at any time during the previous financial year failed to make payment of Charges for Deviation including Additional Deviation Charges for Deviation within the time specified in this regulations shall be required to open a Letter of Credit (LC) equal to 110% of its average payable weekly liability for Deviations in the previous financial year, in favour of the concerned RLDC within a fortnight from the date these Regulations come into force.....*

*.....Provided further that LC amount shall be increased to 110% of the payable weekly liability in any week during the year, if it exceeds the previous LC amount by more than 50%.*

#### ***Unquote***

As intimated by ERLDC, the details of LC amount required to be opened in 2018-19 by ER constituents is given in Annexure - X. Letters to this effect has been issued by ERLDC to the defaulting entities.

IBEUL & Tashiding (SHIGA) have to open Fresh LC; they have not opened the LC till date. JUVNL, SIKKIM, Chuzachen, NVVN(Ind-Nep) & JLHEP(Dans Energy) have not renewed their LC after expiry of the same. In 38th TCC/ERPC Meeting, JUVNL and Sikkim had assured to open the LC with requisite amount shortly.

*JUVNL, SIKKIM, IBEUL, TASHIDING, CHUZACHEN, NVVN and JLHEP may update.*

#### **Deliberation in the meeting:**

ERLDC informed that the letters had been sent to the defaulting entities to open the required LC but there was no response from their end.

JUVNL, SIKKIM, IBEUL, TASHIDING, CHUZACHEN, NVVN and JLHEP were not available in the meeting.

It was decided that ERPC Secretariat would write a letter to concerned utilities to open the requisite LCs at the earliest.

### **ITEM NO. B4: Certification of OPTCL lines as non-ISTS lines carrying ISTS power.**

OPTCL vide no. RT&C-NON-ISTS/2017/281 dated 21.08.2018 had sought the Certification of non-ISTS line carrying ISTS power as per the direction of CERC in ROP dated 08.08.2018 under Petition No. 25/TT/2018.

Accordingly, in line with 34th TCC decision, ERPC Secretariat and ERLDC conducted the load flow study using WebNet software for all the quarters of 2014-15, 2015-16, 2016-17, 2017-18 & 2018-19 (upto Q2). The summary of the results for percentage utilization of the OPTCL transmission line by Odisha to meet the own demand is given at **Annexure-XI**.

Also, in 129th OCC held on 17.01.2017 it was decided that STU lines carrying ISTS power greater than 50% of the total power as per the WebNet software of the validated data for each quarter will be considered as non-ISTS line carrying ISTS power. The same was also approved by 35th TCC/ERPC.

Accordingly, as per the study result it is clear that the following OPTCL lines are mostly being utilized more than 50% for carrying ISTS power, hence these elements may be considered as non-ISTS line carrying ISTS power for the tariff period 2014-19.

SN	Name of Line	Remarks
1	400 kV Indravati-Indravati S/C	
2	400 kV Rengali-Keonjhar S/C	
3	400 kV Keonjhar-Baripada	
4	400 kV Baripada-Kharagpur S/C	Natural ISTS
5	220 kV Jeypore-Jaynagar D/C	
6	220 kV Rengali-Rengali D/C	
7	220 kV Balimela-U.Sileru S/C	Natural ISTS
8	220 Joda-Jindal S/C	
9	132 kV Joda-Kenduposi S/C	Natural ISTS

*Members may discuss.*

#### **Deliberation in the meeting:**

After detailed deliberation, based on the study results and in line with the decision of 35<sup>th</sup> TCC/ERPC meetings, the committee agreed to certify the above nine (9) lines of OPTCL as non-ISTS lines carrying ISTS power.

### **ITEM NO. B5: Meter reading related issues**

#### **B5.1: Erroneous recording of data by Interface Meters**

##### **B5.1.1: Rourkela (PG)**

Meter NP-5931-A installed at Rourkella(PG) end of 400 KV Chaibasa (PG) Line-2 is erroneous and recording Less (almost 2/3rd) compared to actual flow through the Line. The problem was informed to Rourkella(PG) and it is pending since long. There is no meter at Chaibasa(PG) end. Due to non-availability of correct data 400 KV Bus Validation is not being done of Rourkella and Chaibasa.

*PGCIL may please update.*

#### **Deliberation in the meeting:**

Powergrid representative assured that the meter at Rourkela and Chaibasa end would be replaced by the 22nd Oct, 2018.

##### **B5.1.2: Ara (PG)**

Meter No ER-1353-A installed at 132 KV side of 220/132 Ara ICT-3 is recording less compared to HV side. The above matter was informed to Ara PG through email dated 21.09.2018 to correct

the problem. However the problem is still persisting. Since accounting of States drawl is going to be computed through ICTs, rectification has be done at the earliest.

*PGCIL may please update the status.*

**Deliberation in the meeting:**

Powergrid representative informed that the meter No ER-1353-A would be checked and if required, the meter would be replaced with new meter by the end of Oct, 2018.

**B5.1.3: Replacement of defective Meters**

Following Locations have defective meters and needs replacement. Due to non-working of those meters, data from those meters is neither being downloaded through DCD nor it is reporting in AMR since long time which needs replacement of the meters immediately.

- i. Ranchi PGCIL (NP-7402-A) for 400 KV Ranchi New Line-3
- ii. Angul PGCIL (NP-7995-A) for 765 KV side of 1500 MVA ICT-3
- iii. Baripada PGCIL(ER-1568-A) for 220 KV side of 160 MVA ICT-2

*PGCIL may please respond.*

**Deliberation in the meeting:**

Powergrid representative informed that the meters cited above would be replaced by the 20<sup>th</sup> October, 2018.

**B5.2: Non Receipt of SEM data from Various Locations**

As per IEGC, weekly SEM data has to be sent to ERLDC by respective utilities by every Tuesday to RLDC. Weekly SEM data from following locations are not being submitted to ERLDC since Long.

**B5.2.1: Ind-barat (IBEUL)**

Six (6) nos of SEM are installed at Ind-Bharath end for energy accounting of IBEUL. As per IEGC, every Utility has to send SEM data to respective RLDC by Tuesday noon in every week. IBEUL is not sending the SEM data since April'17. Due to non-receipt of data, validation of data of other end i.e sundargarh is being affected. Several reminders through mail and phone were sent to the representatives of IBEUL but till date no data is received. The issue is being raised regularly at different forum of ERPC. However the data is still not being sent by IBEUL.

*IBEUL may please update.*

**Deliberation in the meeting:**

IBEUL was not present in the meeting.

### **B5.2.2: Darbhanga & Laukahi (BSPTCL)**

BSPTCL end meter data from Darbhanga & Laukahi end of 220 KV DMTCL Darbhanga Line is not being sent by BSPTCL since charging of the Line. Due to non-availability of data from BSPTCL end on regular basis, validation of power through the line is being affected. The matter was informed to BSPTCL for sending the data. However there is no improvement in the status.

*BSPTCL may please respond.*

#### **Deliberation in the meeting:**

BSPHCL representative informed that they had started sending the meter data from Darbhanga end. However, due to some software related issues they were not able to send the data from Lauki end. He assured that the problems would be resolved within a week.

### **B5.2.3: Baisi (BSPTCL)**

132 KV Kishanganj-Dalkhola Tie Line was made LILO at Baisi in BSPTCL and the power started flowing through 132 KV Baisi-Dalkhola Tie Line wef 21.08.2018. Meter of Kishanganj BSPTCL was shifted to Baisi but the Data is not being sent to ERLDC. The matter was informed to the respective substation to send the data to ERLDC. The said data is very much required for energy accounting and data validation. The above matter was also discussed in 149th OCC held on 24.09.2018 & OCC advised BSPTCL to send the relevant data to ERLDC at the earliest. Till now BSPTCL has not sent the data to ERLDC.

*BSPTCL may please respond*

#### **Deliberation in the meeting:**

ERLDC had requested to send the required data manually at the earliest.

BSPHCL representative informed that the required data would be sent manually by 20<sup>th</sup> Oct, 18.

### **B5.2.4: Fatua (BSPTCL)**

Meter NP-7850-A installed at Fatua end of 220 KV Patna Line is not being sent by BSPTCL to ERLDC since very long. Further the said meter is also not reporting in AMR. The issue was also discussed in last OCC meeting wherein OCC advised BSPTCL to send the data to ERLDC at the earliest. Till now BSPTCL has not sent the data to ERLDC.

*BSPTCL may please respond.*

#### **Deliberation in the meeting:**

BSPHCL representative informed that the meter at Fatua (BSPTCL) end is defective and it would be replaced within a week.

Powergrid was advised to extend their support to BSPHCL for replacement of the meter.

#### **B5.2.5: Khizirsarai(BGCL)**

BSPTCL Khizirsarai end meter data of 220 KV Gaya (PG) D/C Line is not being sent to ERLDC since charging of Line. The line was loaded first time on 13.09.2018 and power started flowing through the Line. For BSPTCL Accounting and Validation of Data, Khizirsarai end Meter data is also required.

*BSPTCL may please respond.*

#### **Deliberation in the meeting:**

BSPHCL informed that there was some misunderstanding regarding who would collect and send the data from the above substation as Khizirsarai belongs to BGCL, a joint venture of BSPHCL and PGCCIL.

Members opined that the SLDC, Bihar had to take responsibility for these matters and BGCL has to send the meter data on regular basis.

BSPHCL representative assured to take up the issue with appropriate authority for regularisation of sending the meter data at the earliest.

#### **B5.2.6: Malbase(Bhutan)**

Malbase end meter data of 220 KV Malbase-Birpara(PG) and 400 KV Malbae-Binaguri(PG) D/C Line is not being received by ERLDC since last 2 months. Malbase informed ERLDC that due to non-working of DCD they are not sending the data to ERLDC

Bhutan/PGCIL may please update the status

#### **Deliberation in the meeting:**

ERLDC informed that these two locations are very crucial and requested PGCIL to resolve the matter at the earliest by adjusting DCDs from any of the other locations which remained unutilised.

After detailed deliberation PGCIL was advised to collect the unutilized DCD from Teesta –III (TUL) and the same may be handed over to Malbase.

#### **B5.2.7: Rammam (WBSETCL)**

Rammam (WB) end meter data of 132 KV Rangit(NHPC) line is not being sent to ERLDC since last few weeks. At present WBSETCL Net Drawl computation is done with Rangit end meter data and dependent on one end data. Further Validation of Power flow through the line is not possible in absence of either end of the data.

*WBSETCL may please respond.*

### **Deliberation in the meeting:**

WBSETCL representative informed that currently, the meter data from Rammam (WB) end is being sent.

After deliberation the committee advised WBSETCL to send the meter data on timely basis.

### **B5.3: Reverse Polarity of meter**

#### **B5.3.1:Daltonganj (JUSNL)**

Meter No ER-1198-A installed at Daltonganj JUSNL end of 132 KV Daltonganj PG Line-2 has reverse polarity as well as less recording. The CT polarity as well as issue of less of the meter may be corrected at the earliest. A communication from ERLDC was sent to JUSNL & PGCIL for correction of polarity. In 149<sup>th</sup> OCC, the above issue was discussed and JUSNL informed that the CT polarity would be corrected within one week. However the problem is still persisting. The CT polarity of the meter may be reversed at the earliest.

*JUSNL may please update the status*

### **Deliberation in the meeting:**

It was informed that the issue had been resolved.

### **ITEM NO. B6: Non-submission of weekly SEM readings by Tuesday noon from non-AMR Locations/ faulty AMR locations/ Genus meter locations**

As per IEGC (effective from 3.5.2010) Sub-clause-22 of Clause-6.4 (demarcation of responsibilities), all concerned utilities in whose premises SEMs are installed shall take weekly meter readings and transmit the same to RLDC by Tuesday noon for timely issuance of Deviation account Bill. Significant improvement in timely receipt of SEM data has been seen after AMR implementation at various locations and most of the meter data is being received by Tuesday. *Genus meters are installed at many locations in Eastern Region and data of Genus meters from those locations which are yet to be integrated in AMR are being sent manually and getting delayed in sending to ERLDC.* It was also gathered that if concerned person responsible for data downloading is on Leave or not available, meter data is not being sent from those substations.

However general trend of receipt of meter data in last one month is as below:

By Wednesday or later: Dumka(JUSNL), Muzaffarpur(PG), Pandiabil, WBSETCL (North Bengal, Kharagpur) & SIKKIM

*POWERGRID, JUSNL, WBSETCL & SIKKIM are again requested to please adhere to the schedule as per IEGC.*

### **Deliberation in the meeting:**

Powergrid informed that the data from Muzaffarpur, Pandiabil are being sent on regular basis.

WBSETCL assured to do the needful to send the meter data to ERLDC on time.

The committee requested all the respective constituents to adhere to the schedule as per IEGC for sending the meter data.

#### **ITEM NO. B7: Implementation of Automatic Meter Reading in Eastern Region**

Presently 144 Locations with 926 meters are connected through AMR system in ER. ERLDC is receiving data from 114 locations out of total 144 locations through AMR. The status of data receipt from the locations as on 28.09.2018 is as below:

<b>Total Substation connected</b>	<b>144</b>
<b>Total DCU connected</b>	<b>159</b>
<b>Total Meter connected</b>	<b>926</b>

<b>Details of Communicating Meter</b>		<b>Details of Non Communicating Meter</b>		<b>** Reason for Meter non communication</b>	
Total Communicating Substation	114	Total non- Communicating Substation	30	Meter / Feeder OFF	46
Communicating DCU	124	Non Communicating DCU	35	Meter replacement	60
Communicating meter	700	Non Communicating meter	226 **	GPRS issue	90
				AMC plan for TCS	30

After the phase-wise completion of AMR for the locations commissioned, some of the utilities have been asked to discontinue the sending of the weekly SEM data through mail. However, in case of an emergency or communication failure, as the case may be, the utilities may download the data through DCD/Laptop and send it by mail. As such DCD is required to be kept in charged condition. There have been issues with the GPRS communication/DCU/Meter replacement for around 30 locations having 226 meters as mentioned above.

Further the list of 16 new locations with 68 Meters & 25 existing locations with 68 meters to be implemented in AMR was given in 36<sup>th</sup> CCM as enclosed in **Annexure-XII**. In 37<sup>th</sup> CCM, POWERGRID informed that the implementation of the remaining locations/meters would be done by August 2018. However many of the locations and meter provided as per Annexure is still pending

*POWERGRID may update the status of implementation.*

#### **Deliberation in the meeting:**

POWERGRID informed that LOA for integrating the 16 new locations with 68 Meters & 25 existing locations with 68 meters in AMR under 4<sup>th</sup> Phase would be placed by November. 2018 with completion schedule of 10 months. The tentative cost for implementation of 4<sup>th</sup> Phase of AMR with comprehensive AMC would be ₹ 1.75 Crore. The details of cost estimates is given at **Annexure-XII(A)**.



**ITEM NO. B8: Replacement of GPRS communication with Optical Fiber for AMR**

In ER, 80% meters are connected through Automated Meter Reading (AMR). At present the communication system used for data transfer from each location is GPRS. It has been observed that many locations are not communicating with AMR system due to poor/no GPRS signal. Many substations have their own optical fiber which is also used for the LAN network of respective stations. The proposed network will not only provide better communication but also reduce the cost of GSM. TCS has successfully connected 05 locations (Malda-PG, Subhasgram-PG, Binaguri-PG, Siliguri, & Kishanganj PG) with PGCIL intranet and these two locations are smoothly reporting to AMR system after connecting with PGCIL LAN.

In 149<sup>th</sup> OCC, POWERGRID informed that the replacement of GPRS communication of the remaining locations would be completed by November 2018.

*Powergrid may please further update.*

**Deliberation in the meeting:**

POWERGRID informed that the replacement of GPRS communication for the remaining 38 locations would be completed by December 2018.

The committee also advised to other utilities to explore possibilities of using their own optical fiber network, wherever it is available, for communicating with AMR for smooth functioning of AMR.

**ITEM NO. B9: Accounting of state drawl from Substation of PGCIL/ISTS Licensee in ER**

As per Clause 7(1) (C) of CEA (Installation and Operation of Meters) Regulations, 2006 & its subsequent amendments, Main Meters for drawl computation through ICT should be installed on HV side of ICT and meters installed on LV side of ICT should be considered as Standby meters. In view of the above it is proposed that State drawl from PGCIL/ISTS Licensee S/S may be computed by using the meter installed on HV side of ICTs in line with CEA regulation.

In 146<sup>th</sup> OCC, Powergrid informed that the SEM installation in ER-I stations has been completed and the same at ER-II stations would be completed by June 2018. Powergrid (Odisha) informed they will complete the SEM installation by July, 2018.

In 149<sup>th</sup> OCC, Powergrid informed that the replacement of SEMs would be completed by September 2018. The Pending status as on 28.09.2018 is enclosed in **Annexure-XIII**.

*Powergrid may please update the latest status.*

**Deliberation in the meeting:**

ERLDC requested Powergrid to complete the SEM installation/ replacement at the pending locations as given in Annexure-XIII at the earliest.

Powergrid informed that the required installation and replacement of SEMs would be completed by October, 2018.

#### **ITEM NO. B10: Procurement of new SEMs**

In 30<sup>th</sup> ERPC meeting procurement of 965 no of SEM's and 110 nos of Laptop/DCD (in 111<sup>th</sup> OCC meeting) was approved. Further 31<sup>st</sup> TCC/ERPC approved the cost sharing mechanism of expenditure on SEM's and DCD/Laptops along with POWERGRID overhead charges @ 15% to be shared by the beneficiaries constituents of Eastern Region in proportional to the share allocation for the month in which the proposal was approved in the ERPC meeting.

In 35<sup>th</sup> CCM held at ERPC on 02.08.17, PGCIL informed that in 1<sup>st</sup> phase, 300 meters and 40 laptops with software had been supplied by M/s Genus so far.

In 145<sup>th</sup> OCC, PGCIL informed that meter of 2<sup>nd</sup> lot has been supplied. Time drifted meters/Elster meters are being replaced by Genus meters phase wise.

In 37<sup>th</sup> CCM, POWERGRID informed that 300 nos. (approx.) of SEMs in 3rd phase would be delivered and the inspection of the same is scheduled to be done by August 2018.

*Powergrid may update the Stock of meters as well as status of delivery of remaining meters.*

#### **Deliberation in the meeting:**

POWERGRID informed that 364 nos. (approx.) of SEMs would be delivered in 3rd phase and the inspection of the same is scheduled by December, 2018.

#### **ITEM NO. B11: Agenda items by GRIDCO.**

##### **B11.1: Workshop on Transmission deviation Charges Bill raised by PGCIL**

GRIDCO has received the bill; #4 for the period from April'17 to March'18 amounting to ₹ 4, 76, 93,914/- i.e. ₹ 39.75 Lacs per month average towards transmission deviation charges in ER. In spite of our submission of quarterly realistic validation data to the implementing agency, Gridco is paying hefty transmission deviation charges including penalty.

In view of the above, it is suggested that a workshop may be conducted with detailed deliberation on working of DSM towards transmission charges bill # 4 at ERPC level for better understanding & Clarity of Transmission charges so that ER beneficiaries can project their quarterly validation data more accurately.

*Members may discuss*

#### **Deliberation in the meeting:**

It was decided that a workshop would be organized on Transmission deviation Charges Bill (specially for bill #4) at ERPC during December, 2018.

**B11.2: Refund of STOA drawl PoC charges to DICs paid by embedded customers to PGCIL towards their drawl in STOA, which is already considered in the POC charge determination of the DICs in which they are embedded.**

As per the 3rd proviso of regulation 11.9 of sharing regulation 2010,

*“the injection PoC charge/Withdrawal PoC charges for short term open access given to a DIC shall be offset against the corresponding injection PoC charges or withdrawal PoC charges to be paid by the DICs for approved injection/Approved withdrawal corresponding to net withdrawal (load minus own injection) considered in base case.”*

And the 4th proviso of regulation 11.9 of sharing regulation 2010, states that

*“For withdrawal DIC, this adjustment is given only for STOA transaction by DIC and not applicable to other intra-state entity embedded in state and engages in STOA”*

Gridco is taking up matter with PGCIL with respect to adjustment is given only for STOA transaction by directly availed by itself for one to one correspondence. Regarding the short term draws by intra-state entity embedded in state, it is of the same nature i.e., such STOA transaction by intra-state entity embedded in state is also captured/accounted for while determining the POC charge calculation of the state /DICs for the respective quarters. Surprisingly there is no provision in the extant regulation for adjustment of total STOA charges availed by intra-state embedded entities in the bill #1, the reason being cited by NLDC is the difficulty & complexity involved in calculation keeping in view the no of entities embedded in DIC. Gridco submits that the calculation modalities may be difficult but not impossible.

Hence in absence of any such modality, for the same drawl quantum, entities are doubly charged which violated the purpose of 3rd amendment regulation 11.9 as existing returns do not have to one to one correspondence since these transactions are paid back to these DICs in proportion to POC charges. Moreover since such scenario is prevalent in most of the DICs, necessary modalities may be prescribed at ERPC level in absence of regulations towards such adjustment.

The PoC charges of Odisha amounts to ₹ 38.46 Cr per month in 2018-19 in Q1, which has gone up to ₹ 56.26 Cr per month in 2018-19 in Q2. Although the YTC has increased and the total LTA of all the DICs has been decreased due to relinquishment of LTA by some DICs, the major impact on Odisha is due to high STOA drawl of M/s. Vedanta Ltd. in 2018-19 Q2. Ultimately, the consumers of the state shall suffer due to such differential PoC charges which is attributable due to drawl of an embedded Entity like M/S. Vedanta.

*GRIDCO may explain. PGCIL may respond.*

**Deliberation in the meeting:**

GRIDCO representative elaborated the issue through Video Conferencing.

After detailed deliberation the committee advised GRIDCO to prepare a resolution for considering the refund of STOA drawl charges to DICs (i.e. GRIDCO), paid by embedded customers of GRIDCO to PGCIL. The same would be placed before forthcoming TCC and ERPC for discussion and further course of action.

### **B11.3: Current status of Ind-Barath Utkal Limited (IBEUL-IPP)**

IBEUL may be directed to provide the current status of their thermal plant for reference & record. The current status must include information regarding date of commencement of power supply to GRIDCO, other long term beneficiaries and construction of dedicated transmission line for STU connectivity etc.

*Members may discuss*

#### **Deliberation in the meeting:**

IBEUL representative was not present.

### **ITEM NO. B12: Agenda items by Powergrid**

#### **B12.1. Non Opening of LC requisite amount of LC**

Following constituents are required to enhance/ extend LC towards Payment Security Mechanism, as per CERC Regulations:

SI No	Name of DIC's	Amount(in Cr.)	
		Present Value of LC	Value of LC Required
(i)	North Bihar Power Distribution Company Limited(NBPDCL)	9.73	34.50
(ii)	South Bihar Power Distribution Company Limited(SBPDCL)	8.89	51.83
(iii)	Ind-Barath Energy (Utkal) Limited	--	17.50
(iv)	South Eastern Railway(SER)	--	3.15
(v)	East Central Railway(ECR)	--	43.07
(vi)	GRIDCO	--	42.77

#### **Deliberation in the meeting:**

It was decided that a special meeting would be convened with concerned stake holders to resolve LC related issues.

#### **B12.2. Following constituents are required to open new LC towards grant of LTA from Kanti Bijlee Utpadan Nigam Limited Stage –II (2x195 MW) :**

Amount (in Cr.)

SI No	Name of DIC's	Value of LC to be open
(i)	DVC	0.42
(ii)	GRIDCO	0.92
(iii)	Jharkhand Bijli Vitran Nigam Limited(JBVNL)	0.22
(iv)	Power Deptt. Govt. of Sikkim	0.03
(v)	West Bengal State Electricity Distribution Company Ltd.(WBSEDCL)	0.83

The above LC for requisite value and validity required as per CERC Regulations, non-availability causing serious problem for POWERGRID to comply with the provisions of CERC Regulations and Loan covenants.

**Deliberation in the meeting:**

It was decided that a special meeting would be convened with concerned stake holders to resolve LC related issues.

**B12.3. Payment of Outstanding dues more than 60 days :**

Amount(in Cr.)

Sl No	Name of DIC's	Total Outstanding dues	Outstanding due more than 60 days
(i)	Vedanta Ltd.	11.59	11.59
(ii)	GMR Kamalanga Energy Ltd.	44.36	29.42
(iii)	Jindal India Thermal Power Limited	2.55	2.55
(iv)	Ind-Bharat Energy (Utkal) Limited	201.25	187.00
(v)	Dans Energy Pvt. Limited	58.44	52.18
(vi)	Jal Power Corporation Limited	43.95	42.20
(vii)	Damodar Valley Corporation(DVC)	167.29	148.72
(viii)	West Bengal State Electricity Distribution Company Ltd.(WBSEDCL)	95.73	8.59
(ix)	GRIDCO Ltd	23.26	23.26
	Total	648.42	505.51

(viii) The outstanding pertaining to WBSEDCL (Surcharge @ 6.7 Cr & Bill # 4 @ 1.89 Cr). WBSEDCL has agreed to pay Surcharge bill in 24 monthly instalment & started making payment in the month of September'18. Till date they had paid 2 instalments. However, WBSEDCL has not admitted 1.89 Cr towards Bill # 4.

(ix) The outstanding pertaining to GRIDCO (Surcharge @ 23.26 Cr)

*Respective members may update.*

**Deliberation in the meeting:**

DVC informed that there was a petition before APTEL regarding the LTA dispute and they had some legal observations regarding this issue.

WBSEDCL requested for the breakup of total outstanding dues.

**B12.4.** List of Assets commissioned by POWERGRID is enclosed at **Annexure-XIV**.

*Members may please note.*

**Deliberation in the meeting:**

Members noted

### **B12.5. DOCO of 220 KV Subhasgram - Baruipur D/C line bays at Subhasgram (Project-ERSS-VIII)**

Under above mentioned project, 2nos. 220KV line bays for 220 KV Subhasgram-Baruipur D/C Bays are commissioned at Subhasgram on 27.01.2015. Trial run completed on 28.01.2015. (Enclosed at Annexure –XV)

Considering, Non-readiness of 220 KV D/C line by WBSETCL, commercial operation of 02 numbers 220 KV bays may be allowed w.e.f. 29.01.2015.

The matter has already been endorsed in minutes of 148th OCC vide item C.12.

*Members may kindly consider.*

#### **Deliberation in the meeting:**

Powergrid representative elaborated that, as per the schedule the 2nos. 220KV line bays for 220 KV Subhasgram - Baruipur D/C line were commissioned at Subhasgram on 27.01.2015. The recovery of charges corresponding to the bays is getting delayed due to non-completion of the downstream system of 220 KV D/C line by WBSETCL.

It was informed that the progress of the line is being monitored in OCC meetings and the line is not coming in near future.

After detailed deliberation, the committee noted that the bays are commissioned since 27.01.2015 by PGCIL but the same could not be declared in commercial operation due to non-completion of line by WBSETCL.

### **ITEM NO. B13: Agenda items by NTPC.**

NTPC putting up a power project namely Talcher Thermal power Project Stage –III (TTPS-III) with capacity of 2X660MW in the vicinity of existing TTPS station (460 MW). The make-up water for TTPS-III is proposed to be taken from reservoir of Samal barrage which is at a distance of approximately 28 Km from the project. The route for laying the power supply for 28Km involves forest and densely populated residential /Agricultural land as such it would not be feasible to get ROW for laying the line.

The make-up water pump house of TTPS-III has three pumps with each having power rating of 600KW. During normal operation, two pumps would be running and one standby. The maximum power consumption would be 1.8MW. The pump house is in the vicinity (at a distance of 7 Km) of TSTPS-I.

Due to non-feasibility of getting ROW for laying power supply from TTPS-III to pump house, it is proposed to take the power supply from existing TSTPS-I and treat it as supply taken from TTPS-III for accounting.

Even if it would have been feasible to lay power supply line from TTPS-III to the pump house, it would have been beneficial for beneficiaries to draw power TSTPS-I. This is because the length

of power supply line would go down from 28Km to 7Km and also voltage level required for supply would also go down from 66KV to 33 KV. This would itself reduce the cost of power supply line from 17 Cr to 5Cr. i.e., a saving of 12 Cr in the capital cost. The reduction in capital cost would be passed on to ER beneficiaries through reduction in Tariff.

The following has been proposed by NTPC:

1. To provide power supply for make-up water pump house of TTPS-III project from nearby NTPC station TSTPS-I with separate metering for energy consumed.
2. The consumption of power by pump house will be included in Auxiliary power consumption of TTPS-III and the same will be reduced from the APC of TSTPS-I.

*NTPC may explain. Members may discuss.*

**Deliberation in the meeting:**

NTPC representative elaborated in detail the following:

- a) Proposal of drawing power supply for make-up water pump house of TTPS-III project from the nearby NTPC station TSTPS-I and
- b) Adjustment of energy consumed by the pump house in auxiliary power between both the NTPC stations.

Member secretary, EPRC informed that the proposed scheme of NTPC is a unique type of arrangement and it must follow the standards of CEA (Technical standards for construction of electrical plants and electric lines) regulations.

During deliberation the committee felt the following:

- i) The Pump house for make-up water is an electrical load, so the power supply required for pump house could be availed from nearest Discom of Odisha at 33 kV or 66 kV level.
- ii) The proposed scheme must be agreeable by all beneficiaries of TSTPS-I for meeting the supply of the pump house of TTPS –III from the Auxiliary power of TSTPS-I.
- iii) The treatment/value of Auxiliary power at ex-bus of TSTPS-I would not be same as the auxiliary power at ex-bus of TTPS-III.
- iv) At present the energy accounting is done based on meters at ex-bus and there is no accounting for Auxiliary supply.

The views as expressed by the beneficiaries of TSTPS-I are as given below:

- i) West Bengal and DVC: NTPC should get the above proposal ratified from CERC or get the power supply for Pump house from nearby Discom of Odisha.
- ii) Odisha: NTPC should place their proposal in detail. They need to carry out detailed study including the change in power flow due to drawing of power supply of Pump house from TSTPS-I.

- iii) Bihar: NTPC should place the detailed proposal; they would give their feedback after detailed study.
- iv) Jharkhand & Sikkim: No comments received as they were not available in the meeting.

After detailed deliberation, the committee decided to refer the issue to the forthcoming TCC meeting and advised NTPC to give a detailed presentation on the issue.

## **ITEM NO. B14: Additional Agenda**

### **B14.1. Agenda by KBUNL**

Constituents are required to open new LC towards supply of power from MTPS Stage-II (2 X 195 MW) of KBUNL

S.No	Name of Customer	LC to be Opened (Rs Cr.)
1	<b>Bihar</b>	83.75
2	DVC	2.90
3	JBVNL	3.84
4	GRIDCO	9.53
5	WBSEDCL	10.76
6	SIKKIM	0.62
7	TELANGANA	0.31

The above LC for requisite value and validity required as per CERC regulations, non-availability of which jeopardizes the payment security mechanism for KBUNL.

KBUNL had requested their Customers to open the LC for the requisite amount in respect of supply of power from MTPS Stage-II ( 2 X 195 MW) of KBUNL. However, customers have not opened LC till date.

### **Deliberation in the meeting:**

It was decided that a special meeting would be convened with concerned stake holders at ERPC to resolve LC related issues.



## **PART C: ITEMS FOR INFORMATION**

**The members noted the followings for compliance:**

### **ITEM NO. C1: STU and SLDC Transmission & Operating charges.**

#### **1) State Transmission Utility Charges and Losses applicable for STOA for FY 2018-19**

As available with ERLDC the STU charges and losses to be considered for STOA for FY 2018-19 are as follows:

<b>Name of STU</b>	<b>Intra-State Transmission Charges</b>	<b>TRANSMISSION LOSS (For Embedded entities)</b>
WBSETCL	*	3.10%
DVC	Rs. 80 / MWh	2.68%
OPTCL	Rs. 62.5 / MWh	3.50%
JUSNL	*	#
BSPTCL	*	#
SIKKIM	*	#

\* Indicates rates yet to be furnished by concerned State Utilities. Transmission Charges for use of state network shall be Payable @ Rs.80 per MWh as per subsequent Amendment regulation 2009-dated 20.05.2009.

# Not yet intimated by the State Utility.

#### **2) State Load Despatch Centre Operating Charges for STOA for FY 2018-19**

<b>Name of SLDC</b>	<b>SLDC Operating Charge</b>
West Bengal	**
DVC	**
Odisha	Rs. 2000
Jharkhand	**
Bihar	**
SIKKIM	**

\*\* Indicates rates yet to be furnished by concerned State Utilities.

Operating charges at the rate of Rs 1000/-, per day or part of the day for each bilateral transaction for each of the Regional Load Dispatch Centre involved and at the rate of Rs 1000/- per day or part of the day for each State Load Despatch Centre involved shall be payable by the applicant as per subsequent Amendment regulation 2009-dated 20.05.2009.

### **ITEM NO. C2: Information of Deviation/reactive payment in ER pool account**

Constituents of Eastern region are making payment of Deviation charge and Reactive Charge in ER Pool Accounts. However ERLDC is not getting details of payment made in ER pool account. In 31<sup>st</sup> CCM, all the ER pool members were requested to send the details of payment in the format to ERLDC in the email account at [erldc@hotmail.com](mailto:erldc@hotmail.com). APNRL, DANS Energy, JLHEP, TPTCL and MPL are sending the details. DVC and WBSETCL are sending through Hard Copy. Other constituents may furnish the details of payment made in ER Pool.

S.No	Name of Utility	Amount	DSM/Reactive Account Week No	Date	Cheque No	Mode of Payment

### **ITEM NO. C3: Updating of CT/PT Ratio**

The meter details along with the CT/PT ratio has been uploaded at ERLDC website at link <https://erlhc.in/market-operation/meter/>. The constituents are requested to check CT/PT ratios being used. Comments/discrepancies, if any, on the same may please be communicated to ERLDC at the earliest. So far no discrepancy has been reported to ERLDC. It is once again requested to the constituents/PGCIL to verify the Meter serial No, CT/PT ratio.

### **ITEM NO. C4: Submission of SEM data to ERLDC prior & after 6 hr of first time charging of new element**

Before first time charging of any new element in the Grid, SEM details along with meter dummy data is being submitted by respective utility to ERLDC. The purpose of meter reading without power flow was to ensure its compatibility with RLDCs software and purpose of meter reading with power flow was to ensure its healthiness, correct connections of CT/PT and correct CT ratio.

Correctness of SEM readings is important for computing of drawl/Injection of a control area and inter-regional/trans-national energy flows as various accounts/billings are based on it. In view of the above, meter readings after six(6) hrs of power flow must be sent by the utilities to ERLDC before start of trial operation. Further the 24 hour trial operation would be assumed complete only when the both end meter readings for this period are correct.

*It has been observed that SEM data is not being sent after 6 hrs of first time charging of new element.*

### **ITEM NO. C5: Deputation of Nodal Officers by Regional Entities**

In Eastern Region, there are around 1250 SEMs and 180 sites including substations and generation stations. All Regional entities were requested to intimate the contact details of the Nodal Officer who could coordinate with their sites and ERLDC to ensure the following:

- Under - recording of SEM data due to reasons such as CT/PT input problems
- Polarity reversal
- Change in CT/PT ratio
- Meter replacements
- Completeness w.r.t no of meters and no of days
- Checking of time drift in meters: correction and reporting to RLDC
- Data non-availability due to reasons such as outage of Feeder etc.

It was requested to furnish the details like Name, designation, Mailing address, Landline No, Fax No, Email Id, Mobile No etc. to ERLDC for smooth transaction of SEM data.

So far details of Nodal person only from JUVNL, BSPHCL, GATI, DVC, Rangit, Teesta-V, NTPC ER-I(HQ), Talcher NTPC, GMR,JITPL, BRBCL and GRIDCO have been received by ERLDC.

In 35<sup>th</sup> CCM, it was agreed by members that SLDC Chief in case of states and Station Head in case of generating station may be taken to be nodal officers for coordinating meter related issues.

Other constituents/beneficiaries ex. IBEUL,SIKKIM, are requested to furnish the details like Name, designation, Mailing address, Landline No, Fax No, Email Id, Mobile No etc to ERLDC for smooth transaction of SEM data.

#### **ITEM NO. C6: Status of Start-up power drawl, infirm injection and CoD**

Status of Start-up power drawl, infirm injection and CoD Declaration of Generator as Regional entity and Pool member is as follows:

##### **1. Start Up power**

S. No	Generator	Startup power granted	
		From	To
1.	OPGC(2x660MW)	15.01.2018	31.12.2018
2.	NPGC(2X660 MW)	10.05.2018	31.12.2019
3.	NTPC, Darlipalli(2X800MW)	31.05.2018	31.12.2018
4.	BRBCL U#3(250 MW)	14.09.2018	31.03.2019

##### **2. Infirm Power**

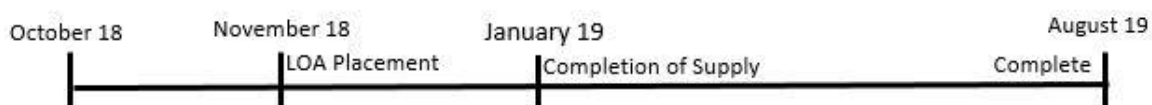
S. No	Generator	Infirm Injection Started From	6 month period would end by	Extension granted by CERC
	NIL	NIL	NIL	NIL

##### **3. COD Declared: NIL**

#### **ITEM NO. C7: Implementation of 4th Phase AMR in ER-II including integration of Energy Meter Data in SCADA.**

As decided earlier and in different OCC meetings, 4<sup>th</sup> Phase AMR implementation taken up with M/s Tata Consultancy Services. M/s Tata Consultancy Services has submitted offer for the implementation of 4<sup>th</sup> Phase AMR, including SCADA integration of energy meter data as per ERLDC requirement.

As per timeline provided, supply of the items will take two months and further implementation will be completed within 10 months from the LOA. Revised timeline given below for reference:-



Total financial implication as per revision of work received as INR 1.75 Crore only. The complete price details are available at **Annexure-XVI**. The breakup of the same is mentioned in the table given below:

<b>Total Cost of Supply [X]</b>	<b>Total Cost of Erection [Y]</b>	<b>Total cost of AMC [Z]</b>	<b>Total Cost [X+Y+Z]</b>
<b>52,48,225.50</b>	<b>60,34,422.00</b>	<b>62,20,800.00</b>	<b>1,75,03,447.50</b>
<b>Note: - The above given figures are excluding GST.</b>			

However, after placement of LOA final figures will be provided.

\*\*\*\*\*

# ANNEXURES

# Annexure-A

## ERPC::KOLKATA

### ATTENDANCE SHEET

#### 38<sup>th</sup> COMMERCIAL SUB-COMITTEE MEETING

VENUE: ERPC CONFERENCE ROOM, KOLKATA

TIME: 11:00 HRS

DATE: 12.10.2018 (FRIDAY)

Sl. No.	Name	Designation & Organisation	Contact Number	E-mail Id	Signature
1	J. BANDYOPADHYAY	MS, ERPC	9432326351	mserpc-power@gov.in	
2	D.K. JAIN	ED, ERLDC	9910344127	dk.jain@posoco.in	
3	SURAJIT BANERJEE	DGM, ERLDC	9433041823	surajit.banerjee@posoco.in	
4	Nadim Ahmad	Manager ERPC	9432351831	naadim@posoco.in	
5	M. K. AGARWAL	DGM (Comm) POWER GRID, PATNA	9931815668	mritul@powergridindia.com	
6	F. Ahmad	DGM (Comm), NTPC	9470001120	faisalahmad@ntpl.co.in	
7	Kallol Sarkar	AGM (Comm), NTPC	8902499534	kallolsarkar123@gmail.com	
8	MANAS DAS	Dy. Mgr, ERLDC	9007070925	manasdas@posoco.in	
9	Pinki Debnath	DM, ERLDC	9007079914	pinkidebnath@posoco.in	
10	Shabari Pramanick	Sr. Engr, ERLDC	9007058764	shabari.pramanick@posoco.in	
11	Debasish Das.	V.P (Reg), IPCL	9338184120	debasish.das@india-power.com	
12	D. SARKAR	Business Head (Asansol) IPCL	9007185684	debasish.sarkar@india-power.com	
13	Anrit Praveer	Head (Comm.) IPCL	6292125661	anrit.praveer@india-power.com	
14	P. P. Jena	AEI, ERPC	9776198857	ppjena.erp@gov.in	
15	P. GHOSH	Dy. Mgr/ER-II	9434348263	pothar.shom@powergridindia.com	
16	BK Pradhan	DGM	9434742021	bhupendra@powergridindia.com	
17	A. De	AEF, ERPC	9681932906	alokpradhan@gmail.com	
18	D. K. Datta	EE, ERPC	9883617236	ee.com1.erp@gov.in	
19	Lenin B	AEF, ERPC	8835905973	lenin.ceae@gov.in	
20	B. SARKHEL	Consultant, ERPC	9433065724	budha.sarkhel@yahoo.co.in	
21	S. M. Jha	Consultant, ERPC	9874738913	espejha@yahoo.co.in	
22	Subrata Ghosal	Deputy Chief Engineer (Comm)	9432577108	subrataghosal@gmail.com	
23	V. Sivarani	AM (F&A) WBSETCL, SLDC	9434910415	wbsetcl.fin@gmail.com	



Sl. No.	Name	Designation & Organisation	Contact Number	E-mail Id	Signature
24	D. Bhattacharyya	Asst. Secy, WBSEDCL	9434910265	wbnsldc.enac@gmail.com	D. Bhattacharyya
25	A. Chakrabarty	Sr. Mgr. (FPA) WBSEDCL	9836699161	cepf.f.wbnsldc@gmail.com	A. Chakrabarty
26	S. Mondal	SE (E), WBSEDCL	9432329748	sreyani123@gmail.com	S. Mondal
27	B. R. Mishra	GM (E) OPTCL	9438907371	bmr@ele.birmishraoptcl.co.in	B. R. Mishra
28	B. K. Behera	Agm (SL) OPTCL	9438907389	ele.bkbehera@optcl.co.in	B. K. Behera
29	RAJDEEP BHATTACHARJEE	RE, BSPHCL, Kolkata	9830380689	rekolbbsphcl@gmail.com	Rajdeep Bhattacharjee
30	Shankar Saran	AGM (Com) NTPC	9650990818	shankarsaran@ntpc.co.in	Shankar Saran
31	R. K. Sood	AGM (IT) Com NTPC BBSL	9650990616	rsood@ntpc.co.in	R. K. Sood
32					

### 38th Commercial Sub Committee Meeting of ERPC

[ At 11:00 A.M. on 12.10.2018 ]

[Through video conferencing at SLDC, Odisha, Bhubaneswar]

Sl. No.	Name	Designation	Organisation	Mobile No.	E-mail Address	Signature
1	Sri P.K. Mishra	CLD	SLDC	9438907402	cl.d.sl@slsdc.org.in	P.K. Mishra
2	Sri S.S. Nayak	CGM (PP)	GRIDCO	9437404458	sgm.pp@gridco.co.in	S. S. Nayak
3	Sri P.K. Dash	GM	GRIDCO	9438907408	prashantk_das@gridco.co.in	P. K. Dash
4	Miss Harapriya Behera	AGM	GRIDCO	9438907021	hp.gridco@gmail.com	H. Behera

## SUMMARY OF DEVIATION CHARGE RECEIPT AND PAYMENT STATUS

BILL UPTO 09.09.18 (Week -23 of 2018 - 19)

Last Payment Disbursement Date - 26.09.18

Figures in Rs. Lakhs

CONSTITUENTS	Receivable	Received	Payable	Paid	Outstanding
WR	165.64199	161.04955	129705.37525	112099.81475	-17600.96806
SR	104695.29007	98564.10074	0.00000	359.14069	6490.33002
NER	37496.32721	28629.62530	2180.61877	777.39494	7463.47808
NR	4918.01262	768.93796	41413.88897	35499.75246	-1765.06185
BSPHCL	2797.14356	1075.49728	95.35037	0.00000	1626.29591
JUVNL	4272.72179	3004.40731	11.82102	0.00000	1256.49346
DVC	5747.57265	4292.21531	623.91993	623.91993	1455.35734
GRIDCO	11962.21078	11076.01318	0.00000	0.00000	886.19760
WBSETCL	13493.96879	12702.87406	0.00000	0.00000	791.09473
SIKKIM	26.62814	0.00000	614.47961	204.38587	-383.46560
NTPC	2029.54997	1904.62888	0.00000	0.00000	124.92109
NHPC	4.94876	4.94876	1277.53341	1201.99846	-75.53495
MPL	143.06705	144.56178	92.67342	83.32975	-10.83840
MTPS STG-II(KBUNL)	510.92445	452.07759	0.00000	0.00000	58.84686
APNRL	225.30421	0.00000	212.86184	0.00000	12.44237
CHUZACHEN (GATI)	56.44679	56.44679	296.30094	262.34928	-33.95166
NVVN(IND-BNG)	160.20097	131.14515	84.68001	84.68001	29.05582
JITPL	94.22138	94.22138	192.41961	173.45124	-18.96837
GMR	632.25104	408.98135	20.83635	20.83635	223.26969
IND BARATH	5.26491	0.00000	0.00000	0.00000	5.26491
TPTCL(DAGACHU)	2293.06514	2109.00835	0.00000	0.00000	184.05679
JLHEP(DANS ENERGY)	78.86281	78.86281	253.37671	231.60017	-21.77654
BRBCL(Nabinagar)	47.68687	47.68687	108.62607	102.34520	-6.28087
NVVN (IND-NEPAL)	769.48664	622.07058	182.58880	128.15272	92.97998
HVDC SASARAM	0.00000	0.00000	86.93314	78.44355	-8.48959
HVDC ALIPURDUAR	0.00000	0.00000	120.23098	113.10602	-7.12496
TEESTA-III	128.15176	128.15176	848.34803	777.95106	-70.39697
DIKCHU(Sneha Kinetic)	57.40350	72.40348	310.44564	300.81958	-24.62604
TASHIDING(Shiga Energy)	173.53555	173.53557	314.81594	239.37580	-75.44016
OPGC	133.12556	116.35117	0.00000	0.00000	16.77439
NPGC	219.91791	211.81091	0.00000	0.00000	8.10700
Pool Balance	0.00000	172.75575	-1127.61587	0.00000	954.86012
Addl Deviation charge	6534.89065	14057.10945	0.00000	0.00000	-7522.21880
IRE	0.00000	0.00000	-170.02583	0.00000	170.02583
VAE	0.00000	0.00000	8882.22558	0.00000	-8882.22558
<b>TOTAL</b>	<b>193338.93287</b>	<b>167031.61387</b>	<b>186632.70869</b>	<b>153362.84783</b>	

% Realization

86.39

As on

26.09.18

Receivable:

Receivable by ER POOL

Payable

Payable by ER POOL

Received

Received by ER POOL

Paid

Paid by ER POOL

"- ve" Payable by ER pool

"+ ve" Receivable by ER pool



**Annexure-II****Difference in DSM account for ERPC & NRPC**

All figs Rupees in Lacs

Week No.	Financial Year	Bill Period	As per ERPC Fig	As per NRPC Fig	Diff
42	2017-18	15-Jan-18 to 21-Jan-18	38.97137	39.29811	-0.32674
43		22-Jan-18 to 28-Jan-18	1818.71461	1819.54751	-0.83290
44		29-Jan-18 to 04-Feb-18	487.19714	487.57902	-0.38188
45		05-Feb-18 to 11-Feb-18	-646.59265	-646.02624	-0.56641
46		12-Feb-18 to 18-Feb-18	1584.50023	1585.10833	-0.60810
47		19-Feb-18 to 25-Feb-18	476.0878	476.43103	-0.34323
48		26-Feb-18 to 04-Mar-18	1031.32822	1031.76241	-0.43419
49		05-Mar-18 to 11-Mar-18	3770.82179	3769.44801	1.37378
50		12-Mar-18 to 18-Mar-18	747.61039	748.42405	-0.81366
51		19-Mar-18 to 25-Mar-18	1375.16618	1368.40764	6.75854
52		26-Mar-18 to 01-Apr-18	210.04301	210.42000	-0.37699
1	2018-19	02-Apr-18 to 08-Apr-18	1009.60994	1278.46919	-268.85925
2		09-Apr-18 to 15-Apr-18	-654.32388	-692.66860	38.34472
3		16-Apr-18 to 22-Apr-18	-1284.45597	-1390.85092	106.39495
4		23-Apr-18 to 29-Apr-18	-2159.58592	-2257.12707	97.54115
5		30-Apr-18 to 06-May-18	353.29802	180.20509	173.09293
6		07-May-18 to 13-May-18	146.92212	-599.83702	746.75914
7		14-May-18 to 20-May-18	-3368.88035	-4112.30688	743.42653
8		21-May-18 to 27-May-18	-2796.00937	-3900.47619	1104.46682
9		28-May-18 to 03-Jun-18	-2591.71233	-3203.81689	612.10456
10		04-Jun-18 to 10-Jun-18	-3967.18649	-4640.58132	673.39483
11		11-Jun-18 to 17-Jun-18	-5122.51604	-6386.98958	1264.47354
12		18-Jun-18 to 24-Jun-18	-6473.51666	-7954.42305	1480.90639
13		25-Jun-18 to 01-Jul-18	-1685.53423	-2975.43419	1289.89996
14		02-Jul-18 to 08-Jul-18	-385.14665	-2663.69127	2278.54462
15		09-Jul-18 to 15-Jul-18	-2801.19246	-5350.27882	2549.08636
16		16-Jul-18 to 22-Jul-18	-1799.16426	-4037.75088	2238.58662
17		23-Jul-18 to 29-Jul-18	1118.66298	1109.37759	9.28539
18		30-Jul-18 to 05-Aug-18	766.69794	-1644.61889	2411.31683
19		06-Aug-18 to 12-Aug-18	-86.22433	-2601.46292	2515.23859
20		13-Aug-18 to 19-Aug-18	-2350.19739	-4349.83849	1999.64110
21		20-Aug-18 to 26-Aug-18	-1551.02649	-3609.48205	2058.45556
22		27-Aug-18 to 02-Sep-18	-2337.21583	-4670.94369	2333.72786

Note : +Ve is Receivable by ER/-Ve payable by ER

## Deviation Interest Bill due to delay payment during FY 2017-18

As on 30.09.18

Annexure-III

SI No.	Name of Constituents	Interest amt Payable by Party(in Rs)	Amount Paid/ recovered by Party(in Rs)	Interest amt receivable by Party(in Rs)	Amount paid to the Party(in Rs)	Outstanding Interest as on 30.09.18 (in Rs)
1	BSPHCL	16974993	16974993			0
2	JUVNL	15419205	15419205			0
3	DVC			14278	14278	0
4	GRIDCO			25776	25776	0
5	WBSETCL	0				0
6	SIKKIM	1143998				1143998
7	NTPC	0				0
8	NHPC			5860	5860	0
9	MPL	1443	1443			0
10	APNRL			57900	57900	0
11	CHUZACHEN	8617	8617			0
12	NVVN(IND-BD)	765	765			0
13	JITPL	38619	38619			0
14	GMR	56974	56974			0
15	IND BARATH	1554233				1554233
16	TPTCL(DAGACHU)	304143	304143			0
17	JLHEP	230359	230359			0
18	BRBCL	5315	5315			0
19	NVVN(IND-NEP)	5268	5268			0
20	TUL(TEESTA-III)			5772	5772	0
21	DIKCHU			9475	9475	0
22	HVDC-PSL			127	127	0
23	HVDC-ALPD			355	355	0
24	TASHIDING	138753	138753			0
25	OPGC	0				0
	<b>Total</b>	<b>35882684</b>	<b>33184453</b>	<b>119543</b>	<b>119543</b>	<b>2698231</b>

**Annexure - IV**

**STATUS OF REACTIVE CHARGES**

**RECEIVABLE IN ER POOL AS PER PUBLISHED A/C UPTO 09.09.18 (2018 -19)  
AS ON 26.09.18**

<b>CONSTITUENT</b>	<b>AMOUNT RECEIVABLE IN THE POOL (Rs.)</b>	<b>AMOUNT RECEIVED IN THE POOL (Rs.)</b>	<b>TOTAL OUTSTANDING(Rs.)</b>
<b>BSPHCL</b>	<b>378537</b>	<b>378537</b>	<b>0</b>
<b>JUVNL</b>	<b>1358202</b>	<b>1137688</b>	<b>220514</b>
<b>DVC</b>	<b>357122</b>	<b>357122</b>	<b>0</b>
<b>GRIDCO</b>	<b>239932341</b>	<b>239932341</b>	<b>0</b>
<b>WBSETCL</b>	<b>622651056</b>	<b>595806662</b>	<b>26844394</b>
<b>SIKKIM</b>	<b>845470</b>	<b>325817</b>	<b>519653</b>
<b>TOTAL</b>	<b>865522728</b>	<b>837938167</b>	<b>27584561</b>

Note: (+ve) means payable by utility & (-ve) means receivable by utility

**Annexure - V**

**SUMMARY OF RRAS CHARGE RECEIPT AND PAYMENT STATUS**

**BILL from 02.04.18 to 09.09.18 (upto Week - 23 of 2018 - 19)**  
**Last Payment Disbursement Date -26.09.18**

Figures in Rs. Lakhs

CONSTITUENTS	Receivable	Received	Payable	Paid	Outstanding
FSTPP STG-I & II	193.34664	184.08623	2646.34662	2122.78000	-514.30626
FSTPP STG-III	39.01086	37.86704	1707.27641	1514.95707	-191.17545
KhSTPP STG-I	93.80255	91.55296	3464.04756	2950.96872	-510.82926
KhSTPP STG-II	26.84365	26.84365	5442.47233	4696.38336	-746.08899
TSTPP STG-I	32.28819	30.31916	83.97126	83.97126	1.96903
BARH STG-II	175.37779	160.87297	2548.40573	2367.19895	-166.70198
BRBCL (Nabinagar)	10.97707	9.38584	904.77732	861.83479	-41.35133
<b>TOTAL</b>	<b>571.64674</b>	<b>540.92785</b>	<b>16797.29723</b>	<b>14598.09415</b>	<b>-2168.48425</b>

		<b>As on</b>	<b>26.09.18</b>
Receivable:	Receivable by ER POOL	Payable	Payable by ER POOL
Received	Received by ER POOL	Paid	Paid by ER POOL
"- ve" Payable by ER pool		"+ ve" Receivable by ER pool	

**Annexure - VI**

**SUMMARY OF CONGESTION CHARGE RECEIPT AND PAYMENT STATUS**

**Bill upto 07.01.2013**

**Last Payment Disbursement Date - 13.05.2013**

**Figures in Rs. Lakhs**

CONSTITUENTS	Receivable	Received	Payable	Paid	Outstanding
BSEB	0.67823	0.67823	0.39118	0.39118	0.00000
JSEB	16.37889	16.37889	2.61323	2.61323	0.00000
DVC	0.00000	0.00000	6.24040	6.24040	0.00000
GRIDCO	5.34488	5.34488	0.00000	0.00000	0.00000
WBSETCL	0.00000	7.42249	4.32834	11.75083	0.00000
SIKKIM	0.65609	6.20909	0.00000	5.55300	0.00000
NTPC	6.93152	6.93152	7.42249	7.42249	0.00000
NHPC	0.70445	0.70445	0.05875	0.05875	0.00000
MPL	4.81694	4.81694	0.85169	0.85169	0.00000
STERLITE	7.70504	7.70504	0.00000	0.00000	0.00000
Pool Balance	0.00000	0.00000	21.30996	21.30996	0.00000
<b>TOTAL</b>	<b>43.21604</b>	<b>56.19153</b>	<b>43.21604</b>	<b>56.19153</b>	<b>0.00000</b>

**% Realization**

**As on 31.05.2015**

Receivable: Receivable by ER POOL

Payable

Payable by ER POOL

Received Received by ER POOL

Paid

Paid by ER POOL

"- ve" Payable by ER pool

"+ ve" Receivable by ER pool

<b>DETAILS OF DISBURSEMENT TO POWER SYSTEM DEVELOPMENT FUND</b>
---

SI No	Nature of Amount	Amount transferred to PSDF (Rs in Lac)	Date of Disbursement	Cheque No	Remarks
1	Opening Balance (upto 31.03.16)	86464.58111			
2	Addl. Dev	83.33978	01.04.16		Addl Dev Charge 15-16
3	Addl. Dev	43.77416	05.04.16		Addl Dev Charge 15-16
4	Addl. Dev	31.83984	07.04.16		Addl Dev Charge 15-16
4	Addl. Dev	52.08622	11.04.16		Addl Dev Charge 15-16
5	Addl. Dev	107.23773	13.04.16		Addl Dev Charge 15-16
5	Addl. Dev	220.15330	19.04.16		Addl Dev Charge 15-16
6	Addl. Dev	76.84824	21.04.16		Addl Dev Charge 15-16
6	Addl. Dev	20.84026	26.04.16		DSM Interest 2014-15(Paid by APNRL)
7	Addl. Dev	10.01920	26.04.16		Addl Dev Charge 16-17
7	Addl. Dev	432.25696	28.04.16		Addl Dev Charge 16-17
8	Addl. Dev	117.08707	02.05.16		Addl Dev Charge 16-17
8	Addl. Dev	41.65418	04.05.16		Addl Dev Charge 16-17
9	Addl. Dev	9.17422	06.05.16		Addl Dev Charge 16-17
9	Addl. Dev	105.15627	06.05.16		Addl Dev Charge 15-16
10	Deviation Interest	38.50018	06.05.16		Deviation Interest
10	Addl. Dev	35.54178	10.05.16		Addl Dev Charge 16-17
11	Addl. Dev	448.87953	31.05.16		Addl Dev Charge 16-17
11	Addl. Dev	170.51274	29.06.16		Addl Dev Charge 16-17
12	Reactive Energy Charge	530.57497	28.09.16		Reactive Charges_15-16
12	Reactive Energy Charge	1000.00000	26.12.16		Reactive Charges_16-17
15	Reactive Energy Charge	248.26904	31.07.17		Reactive Charges_17-18
16	Reactive Energy Charge	128.44284	29.08.17		Reactive Charges_17-18
16	Reactive Energy Charge	103.22685	26.09.17		Reactive Charges_17-18
17	Reactive Energy Charge	249.14078	31.10.17		Reactive Charges_17-18
17	Reactive Energy Charge	172.20693	30.11.17		Reactive Charges_17-18
18	Reactive Energy Charge	200.00000	15.12.17		Reactive Charges_17-18
18	Reactive Energy Charge	100.00000	05.01.18		Reactive Charges_17-18
19	Reactive Energy Charge	558.45339	06.02.18		Reactive Charges_17-18
19	Reactive Energy Charge	171.95546	06.03.18		Reactive Charges_17-18
20	Reactive Energy Charge	129.35497	04.04.18		Reactive Charges_17-18
20	Reactive Energy Charge	126.21494	07.05.18		Reactive Charges_18-19
21	Reactive Energy Charge	183.31081	06.06.18		Reactive Charges_18-19
21	Reactive Energy Charge	215.58816	05.07.18		Reactive Charges_18-19
22	Reactive Energy Charge	176.54245	03.08.18		Reactive Charges_18-19
22	Reactive Energy Charge	39.54556	06.09.18		Reactive Charges_18-19
	<b>Total</b>	<b>94976.67269</b>			

## Annexure-VIII

	2017-18				2018-19
count Reconciliation Status of ER constituents and Inter I					
Name of The Utility	Q1(04.07.17)	Q2(09.10.17)	Q3(08.01.18)	Q4(09.04.18)	Q1(19.07.18)
Inter Regional					
WR	NO	NO	NO	NO	NO
SR	YES	NO	NO	NO	NO
NER	YES	NO	YES	NO	YES
NR	NO	NO	YES	NO	NO
Intra Regional					
BSPHCL	YES	YES	YES	YES	NO
JUVNL	YES	YES	YES	YES	NO
DVC	YES	YES	YES	YES	YES
GRIDCO	YES	YES	YES	YES	YES
WBSETCL	YES	YES	YES	YES	YES
SIKKIM	YES	YES	YES	YES	NO
NTPC	YES	YES	YES	YES	YES
NHPC	YES	YES	YES	YES	YES
MPL	YES	YES	YES	YES	YES
KBUNL	N/A	N/A	N/A	N/A	YES
APNRL	YES	YES	YES	YES	YES
CHUZACHEN(GATI)	YES	YES	YES	YES	YES
NVVN(Ind-Bng)	YES	YES	YES	YES	YES
NVVN(Ind-Nep)	YES	YES	YES	YES	YES
GMR	YES	YES	YES	YES	NO
JITPL	YES	YES	YES	YES	YES
INBEUL	NO	NO	NO	NO	NO
TPTCL (DAGACHU)	YES	YES	YES	YES	NO
JLHEP(DANS ENERG	YES	NO	NO	NO	YES
BRBCL	YES	YES	YES	YES	NO
POWERGRID (ER-I)	YES	YES	YES	YES	YES
POWERGRID (ER-II)	N/A	N/A	YES	YES	NO
TUL (TEESTA-III)	YES	YES	NO	NO	NO
DIKCHU	YES	NO	YES	NO	NO
SHIGA (TASHIDING)	N/A	N/A	YES	YES	YES
OPGC	N/A	N/A	N/A	YES	YES
NPGC	N/A	N/A	N/A	N/A	NO

Note:

- (1) The dates in the bracket indicates the date of sending the Reconciliation statements by ERLDC to utilities.
- (2) YES Indicates that signed reconciliation statement received by ERLDC
- (3) NO Indicates that signed reconciliation statement is not received by ERLDC

**Annexure-IX**

<b>Reconciliation Between Open Access department of ERLDC and SLDCs, STUs</b>		
<b>Sl. No.</b>	<b>STUs / SLDCs Name</b>	<b>Quarter-I</b>
	Date of Issuance	16-07-2018
1	West Bengal - SLDC and STU	NO
2	DVC - SLDC	YES
3	OPTCL-SLDC and STU	NO

<b>Reconciliation Between Open Access department of ERLDC and Applicants</b>		
<b>Sl. No.</b>	<b>Applicants Name</b>	<b>Quarter-I</b>
	Date of Issuance	25-07-2018
1	Calcutta Electric Supply Company	YES
2	Jindal India Thermal Power Limited	YES
3	Jharkhand Urja Vitaran Nigam Limited	NO
4	West Bengal State Distribution Company Limited	NO



## Annexure - X

### Current Status of Letter of Credit (LC) amount against DSM charges for ER constituents

*Figures in Lacs of Rupees*

Sl No	ER Constituents	No. of weeks in which Deviation Charge payable	No of times payment was delayed during 2017-18	Total Deviation charges payable to pool during 2017-18	Average weekly Deviation Charge liability	LC Amount	Due date of expiry	Remarks
					(C)/52 weeks	110% of (B)		
		(A)	(B)	(C)	(D)	(E)	(F)	(G)
1	JUVNL	50	50	10486.92151	201.67157	221.83872	Expired on 31.01.2018	Letter Issued but Not Renewed
2	SIKKIM	26	26	577.40815	11.10400	12.21440	Expired on 07.03.2018	Letter Issued but Not Renewed
3	CHUZACHEN	9	4	43.51171	0.83676	0.92044	Expired on 31.03.2018	Letter Issued but Not Renewed
4	NVVN(IND-NEP)	36	7	2742.53984	52.74115	58.01527	Expired on 26.09.2018	Letter Issued but Not Renewed
5	JLHEP	37	24	652.25964	12.54345	13.79780	Expired on 24.09.2018	Letter Issued but Not Renewed
6	IND-BARATH	47	47	107.23938	2.06230	2.26853	Not Opened	Not Opened
7	SHIGA ENERGY(TASHIDING)	25	15	148.94874	2.86440	3.15084	Not Opened	Not Opened
8	BSPHCL	48	48	12297.15842	236.48382	260.13220	16.11.2018	Opened for 213.53049 Lac
9	JITPL	18	3	656.5622	12.62620	13.88882	31.03.2019	Opened for 13.88882 Lac
10	GMR	21	10	257.62983	4.95442	5.44986	18.04.2019	Opened for 7.62525 Lacs
11	MPL	12	2	148.83104	2.86214	3.14835	31.03.2019	Opened for 3.14835 Lac
12	APNRL	18	16	307.81318	5.91948	6.51143	31.12.2018	Opened for 6.51143 Lac
13	TPTCL	49	7	2092.89162	40.24792	44.27271	31.03.2019	Opened for 112.03686 Lacs
14	BRBCL	21	4	198.25119	3.81252	4.19378	30.04.2019	Opened for 4.19378 Lacs
15	TEESTA-III(TUL)	12	2	1039.16725	19.98399	21.98238	05.06.2019	Opened for 21.98238 Lacs
16	SNEHA KINETIC(DIKCHU)	9	7	53.96014	1.03770	1.14146	20.05.2019	Opened for 1.14146 Lacs

**Procedure:** - Following step wise procedure is followed for determining the usage of line.

1. Base cases for each quarter were downloaded from POSOCO website, which is publically available.
2. Downloaded base cases were imported one by one in WebNetuse software and load flow analysis (LFA) was performed
3. For determining the utilization of non-ISTS lines carrying ISTS power netuse model is used with following configuration.

NetUse Configuration

**Configuration** Post Process

Mother Policy

☒ Marginal Participation ☐ Tracing

Objective

☒ Network Usage Cost Allocation  
☐ Network Loss Allocation

Line Usage Cost Recovery Scheme

☒ Complete ☐ In Proportion to flow

Cost Share Between Generation & Load

☐ Automatic ☐ In Proportion to flow

Generation : 0 %  
 Load : 100 %

Line Flow Sensitivity Calculation Approach

☒ Analytical ☐ Numerical

Perturbation Value

☒ Absolute ☐ Percentage of injection

1 MW  
 %

Dependent Slack Bus Selection Rule

☒ Average Participation  
☐ Min-Max Fairness Policy  
☐ Pro-Rate

Marginal Flow Selection

☒ Ignore Negative Marginal Flows  
☐ Include Negative Marginal Flows

Ignore Below Threshold

Participation Factor: 0 % ☐ Cumulative  
 pu ☐ Cumulative

Line Flow Sensitivity: 0

\* indicates highest absolute sensitivity value is used for normalization prior to applying threshold.

☐ Quick Run

**Result :-** The result is summarized in Annexure-I

Saurav Sahay 24/sep/2018.

ERPC Representative

Pranay Jena

Pranay Jena

AEE, (ERPC)

Date :- 24-Sep-2018

Name of Line	Percentage utilization to meet GRIDCO Demand																	
Year	2014-15				2015-16				2016-17				2017-18				2018-19	
Quarter	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2
400 kV Indravati-Indravati S/C	48.55%	44.47%	55.70%	74.01%	40.23%	42.61%	36.02%	31.76%	34.40%	31.40%	35.70%	36.00%	37.28%	31.24%	38.46%	29.57%	32.65%	57.57%
400 kV Rengali-Keonjhar S/C	7.15%	15.54%	15.12%	17.53%	13.02%	16.23%	17.18%	16.31%	15.20%	13.70%	18.20%	20.36%	19.70%	18.84%	18.62%	19.63%	20.13%	16.86%
400 kV Keonjhar-Baripada	7.15%	15.54%	15.12%	17.43%	13.01%	16.23%	17.18%	16.30%	15.20%	13.70%	18.20%	20.36%	19.70%	18.83%	18.62%	19.63%	20.13%	16.86%
400 kV Baripada-Kharagpur S/C	Natural ISTS																	
220 kV Jeypore-Jaynagar D/C	0.13%	1.37%	0.00%	0.01%	6.31%	13.86%	6.93%	8.95%	6.50%	5.30%	10.70%	9.57%	10.10%	11.75%	10.60%	11.08%	14.99%	18.60%
220 kV Rengali-Rengali D/C	52.67%	61.48%	31.48%	58.07%	42.03%	42.38%	43.37%	44.21%	46.40%	38.80%	44.70%	41.36%	41.03%	36.85%	37.52%	37.82%	42.84%	46.55%
220 kV TSTPP-Meramundali D/C	75.14%	88.32%	94.08%	93.43%	83.71%	62.26%	60.35%	59.79%	42.20%	23.30%	33.10%	56.21%	58.50%	57.76%	59.61%	55.91%	60.84%	62.67%
220 kV Balimela-U.Sileru S/C	Natural ISTS																	
220 kV Joda-Jindal S/C	73.97%	0.94%	0.16%	70.36%	0.11%	0.01%	0.01%	0.01%	0.20%	0.40%	0.50%	0.50%	0.04%	0.05%	0.07%	0.08%	0.10%	0.01%
220 kV TTPS-TSTPP S/C	36.45%	32.19%	38.14%	30.04%	49.51%	53.03%	50.65%	53.83%	53.20%	44.50%	52.50%	52.26%	53.71%	51.33%	52.52%	48.50%	55.57%	54.49%
132 kV Joda-Kenduposi S/C	Natural ISTS																	

*Diary*  
24.09.18

*Sahay*  
24/sep/2018

## Annexure-XII

### List of Meter & Location for AMR 4th Phase

S.No	MAKE	Meter Serial No	LOCATION	
1	L&T	NP-7885-A	LAKHISARAI(PG)	
2	L&T	NP-7886-A		
3	L&T	NP-7429-A		
4	L&T	NP-7429-A		
5	L&T	NP-7887-A		
6	L&T	NP-7430-A		
7	L&T	NP-7888-A		
8	L&T	NP-7431-A		
9	ELSTER	NR-4451-A		
10	ELSTER	NR-4452-A	ALIPURDUAR(PG)	
11	ELSTER	NR-3717-A		
12	ELSTER	NR-4622-A		
13	ELSTER	NR-4625-A		
14	ELSTER	NR-4447-A		
15	ELSTER	NR-4446-A		
16	ELSTER	NR-3725-A		
17	ELSTER	NR-4617-A		
18	ELSTER	NR-3716-A		
19	ELSTER	NR-3718-A		
20	GENUS	ER-1104-A		
21	GENUS	ER-1146-A		
22	GENUS	ER-1005-A	KISHANGANJ(BSPTCL)	
23	GENUS	ER-1006-A		
24	GENUS	ER-1002-A		
25	GENUS	ER-1004-A		
26	ELSTER	ER-1295-A		
27	GENUS	ER-1158-A		
28	GENUS	ER-1156-A		
29	GENUS	ER-1157-A		
30	GENUS	ER-1287-A	NPGC(BSPTCL)	
31	GENUS	ER-1282-A		
32	GENUS	ER-1052-A	OPGC	
33	GENUS	ER-1063-A		
34	GENUS	ER-1027-A		
35	GENUS	ER-1112-A		
36	GENUS	ER-1026-A		
37	GENUS	ER-1030-A		
38	GENUS	ER-1053-A		
39	GENUS	ER-1066-A		
40	GENUS	ER-1068-A		
41	GENUS	ER-1060-A		
42	ELSTER	NR-3714-A		TEESTA-III
43	ELSTER	NR-3715-A		
44	ELSTER	NR-4450-A		
45	ELSTER	NR-3720-A		
46	ELSTER	NR-4623-A		
47	ELSTER	NR-3719-A		
48	ELSTER	NR-4456-A		
49	ELSTER	NR-4618-A		
50	ELSTER	NR-4454-A		
51	ELSTER	NR-4453-A		
52	GENUS	ER-1250-A	MOTIHARI(BSPTCL)	
53	GENUS	ER-1245-A	MOTIPUR(BSPTCL)	
54	GENUS	ER-1286-A		
55	GENUS	ER-1288-A		
56	GENUS	ER-1111-A	ATRI(GRIDCO)	
57	GENUS	ER-1007-A		
58	GENUS	ER-1248-A	RAXAUL(BSPTCL)	
59	GENUS	ER-1249-A		
60	GENUS	ER-1113-A	SAMANGARA(GRIDCO)	
61	GENUS	ER-1073-A		
62	GENUS	ER-1223-A	SAMASTIPUR(BSPTCL)	
63	GENUS	ER-1121-A	EMSS(CESC)	
64	GENUS	ER-1126-A		
65	GENUS	ER-1227-A	BETIAH(BSPTCL)	
66	GENUS	ER-1173-A		
67	GENUS	ER-1116-A	BHOGRAI(GRIDCO)	
68	GENUS	ER-1114-A	JALESWAR(GRIDCO)	

16 New Locations with 68 Meters

S.No	MAKE	Meter Serial No	LOCATION
69	GENUS	ER-1290-A	APNRL
70	GENUS	ER-1135-A	BERHAMPORE(PG)
71	GENUS	ER-1140-A	
72	GENUS	ER-1265-A	BIHARSHARIFF(PG)
73	GENUS	ER-1108-A	BINAGURI(PG)
74	GENUS	ER-1102-A	
75	GENUS	ER-1076-A	
76	GENUS	ER-1128-A	
77	GENUS	ER-1125-A	BIRPARA(PG)
78	GENUS	ER-1106-A	
79	GENUS	ER-1109-A	
80	GENUS	ER-1110-A	
81	GENUS	ER-1071-A	DALKHOLA(PG)
82	GENUS	ER-1072-A	
83	GENUS	ER-1166-A	DARBHANGA(DMTCL)
84	GENUS	ER-1263-A	GAYA(PG)
85	GENUS	ER-1170-A	
86	GENUS	ER-1297-A	JAMSHEDPUR(PG)
87	GENUS	ER-1215-A	KHARAGPUR(WB)
88	GENUS	ER-1043-A	
89	GENUS	NR-4615-A	KISHANGANJ(PG)
90	GENUS	NR-4434-A	
91	GENUS	ER-1293-A	
92	GENUS	ER-1296-A	
93	GENUS	ER-1159-A	
94	GENUS	ER-1154-A	MALDA(PG)
95	GENUS	ER-1143-A	
96	GENUS	ER-1150-A	
97	GENUS	ER-1008-A	MEJIA(DVC)
98	GENUS	ER-1031-A	
99	GENUS	ER-1055-A	MIRAMUNDALI(GRIDCO)
100	GENUS	ER-1054-A	
101	GENUS	ER-1165-A	MOTIHARI(DMTCL)
102	GENUS	ER-1167-A	
103	GENUS	ER-1122-A	MPL
104	GENUS	ER-1123-A	
105	GENUS	ER-1124-A	
106	GENUS	ER-1129-A	
107	GENUS	ER-1226-A	MUZAFFARPUR(PG)
108	GENUS	ER-1299-A	NABINAGAR(BRBCL)
109	GENUS	ER-1292-A	
110	GENUS	ER-1294-A	
111	ELSTER	NR-4620-A	NEW MELLU(PG)
112	ELSTER	NR-4621-A	
113	GENUS	ER-1099-A	PANDIABILI(PG)
114	L&T	NP-8052-A	
115	GENUS	ER-1175-A	PURNEA(PG)
116	GENUS	ER-1176-A	
117	GENUS	ER-1298-A	RAMCHANDARPUR(PG)
118	GENUS	ER-1020-A	RENGALI(PG)
119	GENUS	ER-1028-A	ROURKELA(PG)
120	GENUS	ER-1029-A	
121	GENUS	ER-1012-A	
122	GENUS	ER-1093-A	SUNDERGARH(PG)
123	GENUS	ER-1100-A	
124	GENUS	ER-1019-A	
125	GENUS	ER-1118-A	
126	GENUS	ER-1022-A	
127	GENUS	ER-1021-A	
128	GENUS	ER-1023-A	
129	GENUS	ER-1117-A	
130	GENUS	ER-1119-A	
131	GENUS	ER-1062-A	
132	GENUS	ER-1067-A	
133	GENUS	ER-1061-A	
134	GENUS	ER-1070-A	
135	GENUS	ER-1065-A	
136	GENUS	ER-1064-A	

25 Existing Locations with 68 Meters

**SEM Installation/Replacement Pending at ICTs in PGCIL Location**
**Annexure-XIII**

Location	Bay	S No	Time Drift	over all Status of meters on Icts
ARA(PG)	220 KV SIDE OF 160 MVA ICT-3	NP-8860-A	11	02 replacement pending
ARAH(PG)	220/132 KV ICT-1	NP-6055-A	11	
GAYA(PG)	400 KV SIDE 500 MVA GAYA ICT-2	NP-7858-A	7	02 repalcement pending and 02 new installation at IV
GAYA(PG)	400 KV SIDE 500 MVA GAYA ICT-1	NP-7453-A	13	
GAYA(PG)	220 KV SIDE 500 MVA GAYA ICT-1			
GAYA(PG)	220 KV SIDE 500 MVA GAYA ICT-2			
KISHANAGNJ(PG)	400 KV SIDE OF 500 MVA ICT-1		-	02 IV pending for installation
KISHANGANJ(PG)	400 KV SIDE OF 500 MVA ICT-2		-	
PATNA(PG)	400KV SIDE OF PATNA ICT-1	NP-5270-A	9	04 pending for replacement
PATNA(PG)	220KV SIDE OF PATNA ICT-1	NP-5271-A	12	
PATNA(PG)	400KV SIDE OF PATNA ICT-2	NP-5839-A	11	
PATNA(PG)	220KV SIDE OF PATNA ICT-2	NP-5866-A	10	
PURNEA(PG)	400 KV SIDE 315 MVA ICT-1			02 IV pending for installation
PURNEA(PG)	400 KV SIDE of 400/220 KV ICT-2			
PUSAULI(PG)	400/220KV ICT-2		-	02 IV pending
PUSAULI(PG)	400/220KV ICT-1		-	
BARIPADA(PG)	BARIPADA 220/132 KV ICT -1			02 IV side Pending & One HV meter defective ER-1568-A
BARIPADA(PG)	BARIPADA 220/132 KV ICT -2		-	
BARIPADA(PG)	400/220 315 MVA ICT-1			02 HV side Pending
BARIPADA(PG)	400/220 315 MVA ICT-2			
BOLANGIR(PG)	400 KV BOLANGIR ICT-II		-	01 IV pending
KEONJHAR(PG)	HV SIDE OF 315 MVA 400/220 ICT-1	ER-1589-A	-	02 IV pending
KEONJHAR(PG)	HV SIDE OF 315 MVA 400/220 ICT-2	ER-1587-A	-	
BIRPARA(PG)	220/132 160 MVA ICT-2		-	02 IV pending
BIRPARA(PG)	220/132 160 MVA ICT-1		-	
GANGTOK(PG)	132KV SIDE 132/66 KV ICT-1	NP-6029-A	8	04 pending for repalcement
GANGTOK(PG)	66KV SIDE 132/66 KV ICT-1	NP-6030-A	9	
GANGTOK(PG)	132KV SIDE 132/66 KV ICT-2	NP-6028-A	17	
GANGTOK(PG)	66KV SIDE 132/66 KV ICT-2	NP-6025-A	18	
MALDA(PG)	220 KV SIDE OF 400/220 MALDA ICT-1	NP-7925-A	18	02 pending for replacement
MALDA(PG)	220 KV SIDE OF 400/220 ICT-2	NP-7926-A	18	
SILIGURI(PG)	132 KV SIDE OF SILIGURI ICT -1	NP-5951-A	11	02 HV side meter replacement pending
SILIGURI(PG)	132 KV SIDE OF SILIGURI ICT-2	NP-7979-A	14	
SUBHASGRAM(PG)	400 KV SIDE 315 MVA SUBHASGRAM ICT-3	NP-7545-A	10	06 no of replacement Pending
SUBHASGRAM(PG)	400 KV SIDE OF SUBHASHGRAM 400/220 IC	NP-7939-A	12	
SUBHASGRAM(PG)	220 KV SIDE 400/220 315 MVA ICT-4	NP-7566-A	19	
SUBHASGRAM(PG)	220 KV SIDE 400/220 315 MVA ICT-3	NP-7996-A	14	
SUBHASGRAM(PG)	400 KV SIDE OF 500 MVA SUBHSGARAM IC	NP-8718-A	8	
SUBHASGRAM(PG)	220 KV SIDE OF 500 MVA SUBHSGARAM IC	NP-8717-A	11	

**Date of Commercial Operation(DOCO) of the Asstes**

						<b>Annexure- XIV</b>
<b>A</b>	<b>Eastern Region Strengthening Scheme-XIV</b>	<b>DOCO</b>	<b>Approved Cost</b>	<b>Standing Committee Reference</b>	<b>RPC Meeting Reference</b>	<b>Sharing of Charges</b>
01	Installation of 400kV 1X125 MVAR Bus Reactor along-with GIS bay at Baripada Substation	30/06/18	Rs. 167.01 Cr. (including IDC of Rs. 10.09 Cr.).	16th SCM meeting of ER on 02/05/2014 at NRPC, New Delhi	26th ERPC meeting on 18.01.14 & 27th ERPC meeting on 31.05.14	As per New Sharing methodology of PoC
02	Installation of 400kV 125 MVAR Bus Reactor II along-with bay at Chaibasa Substation	28/07/18				
<b>B</b>	<b>Eastern Region Strengthening Scheme-XI.</b>	<b>DOCO</b>	<b>Approved Cost</b>	<b>Standing Committee Reference</b>	<b>RPC Meeting Reference</b>	<b>Sharing of Charges</b>
01	STATCOM System (+/-) 300MVAR complete in all respect including Coupling transformer, Mechanically switched compensation (2x125 MVAR reactor), cooling system & STATCOM protection / controller etc at Ranchi(New)Substation	16/07/18	Rs. 766.21 Cr. (including IDC of Rs. 0.0 Cr.).	14th & 15th SCM Meeting of ER on 05th January'13 & 27th August'13 respectively	25th TCC/ERPC meeting on 20th -21st September, 2013 & 28th TCC/ ERPC meeting on 12th -13th September, 2014	As per New Sharing methodology of PoC
02	Installation of (+/-) 200MVAR STATCOM along-with 2x 125 MVAR Mechanically switched Reactor & 2X125 MVAR Mechanically switched Capacitor Jeypore Substation	01/07/18				
03	Installation of (+/-) 300MVAR STATCOM along-with 2x 125 MVAR Mechanically switched Reactor at Rourkela Substation	30/03/18				
<b>C</b>	<b>Transmission System for Development of Pooling Station in Northern Part of West Bengal and Transfer of Power from BHUTAN to NR/WR</b>	<b>DOCO</b>	<b>Approved Cost</b>	<b>Standing Committee Reference</b>	<b>RPC Meeting Reference</b>	<b>Sharing of Charges</b>
01	2nos 220kV line bays at Alipurdwar Substation	01/03/18	Rs.4404.57 Cr.( including IDC of Rs. 383.38 Cr.).	6th, 8th , 10th , 11th, & 16th SCM meeting of ER on 22.06.06,05.11.07,14.09.09,20.09.10&02.05.14 respectively.	-	As per New Sharing methodology of PoC





Power System Operation Corporation Limited  
(A wholly owned subsidiary unit of Powergrid Corporation of India Limited)  
Eastern Regional Load Despatch Centre  
14, Golf Club Road, Tollygunge, Kolkata – 700033



Certificate No: ERLDC/Trial Operation/2015/Feb/16 /4645-

Dated: The 19<sup>th</sup> Feb, 2015

Certificate of completion of Trial Operation of Transmission Element

It is hereby certified that the following Transmission element has successfully completed the trial operation:

Name of the Transmission Asset	500 MVA, 400/220/33kV ICT-V at Subhashgram along with its 400kV and 220kV bays(415,201,215 and 216)
Owner of the Transmission Asset	POWERGRID CORPORATION OF INDIA LTD.
Date and Time of Energization for commencement of successful trial run operation	16:14 Hrs of 27/01/15
Date/time of completion of successful trial run operation	16:14 Hrs of 28/01/15

This certificate is being issued in accordance with Regulation 5 of CERC (Terms and Condition of Tariff) Regulations, 2014 to certify successful completion of trial operation of transmission element. Usage of this certificate for any other purpose is prohibited.

Signature:

Name:

Designation:

DM (Comm)

Distribution:

- 1) ED, ERTS-II, POWERGRID, RHQ, J-1-15, Sector-V, Salt Lake, Kolkata-700091
- 2) MS, ERPC, 14, Golf Club Road, Tollygunge, Kolkata-700033
- 3) ED, NLDC, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016
- 4) CE, SLDC-BSEB/DVC/JSEB/OPTCL/SIKKIM/WBSETCL

	132kV D/c	on 26 <sup>th</sup> July 2018.
D	Daltonganj (POWERGRID) – Chatarpur/Lesliganj 132kV D/c	Tendering is in progress. Expected to be completed by October 2019
2	<b>Chaibasa400/220kVS/s</b>	
A	Chaibasa(POWERGRID)–Noamundi220kVD/c	Not yet started
3	<b>Dhanbad400/220kVS/s</b>	
A	LILO of Govindpur–Jainamore/TTPS 220kVD/c at Dhanbad	ROW issues. Target date November 2018.

JUSNL may update.

#### Deliberation in the meeting

JUSNL updated the status as mentioned in above table.

**Item no. C.12: 220 kV inter-connecting lines of WBSETCL with 400/220 kV, 2x315 MVA Alipurduar & 2x500 MVA Rajarhat sub-stations**

In lastOCC, WBSETCL updated the latest status as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	<b>2x315MVA, 400/220kV Alipurduar sub-station</b>	
a.	Alipurduar (POWERGRID) – Alipurduar (WBSETCL) 220kV D/c ( <i>Twin moose</i> )	The line was commissioned on 6 <sup>th</sup> June 2018.
2.	<b>2x500MVA, 400/220kV Rajarhat---</b>	
a.	Rajarhat-N. Town-3 (WBSETCL) 220 kV D/C line	Matching, ROW problem
b.	Rajarhat-N. Town-2 (WBSETCL) 220 kV D/C line	ROW problem
c.	Rajarhat- Barasat (WBSETCL) 220 kV D/C line	ROW problem
3	<b>Subashgram400/220kVS/s</b>	
a	Subashgram–Baraipur220kVD/c line	Feb 2019, 50% of work has been completed.

WBSETCL may update.

#### Deliberation in the meeting

WBSETCL updated the status as mentioned in above table.

Powergrid informed that Subashgram bays were ready from December 2014 but construction of the line is getting delayed. Hence, Powergrid requested to consider the commercial declaration of the bays at Subashgram.

OCC in principle agreed for commercial declaration of Subashgram–Baraipur 220kV D/c line bays at Subashgram. However, the declaration would be from prospective date.

**Item no. C.13: Update on status of telemetry**

CERC vide order dated 28.02.2016 on Petition No. 007/SN/2014 directed NLDC and respective RLDCs to update the status of telemetry every month at their respective websites and take up the issue of persistent non-availability of data from Generating Stations/substations at RPC meetings for appropriate action.

ERLDC may present. Members may update.

#### Deliberation in the meeting

ERLDC has placed the latest status of telemetry, which is enclosed at **Annexure-C13**.

Minutes of 148<sup>th</sup> OCC Meeting



## Annexure -XVI

## Price Details of AMR Phase-III

Date : 08-Oct-2018

## Details of Supply

SL No	Item	Unit	Qty	Unit - Ex Work Cost (INR)	Total - Ex Work Cost (INR)
1	supply of all required hardware along with accessories for integration of DCUs to SEMs	Per SEM	200	1050	210000.00
2	Armoured RS-485 Cable	Per Mtr	11300	116.39	1315207.00
3	PVC Pipe of ISI make min dia 50 mm Or higher	Per Mtr	6500	101.33	658645.00
4	Data Concentrator Unit/ Data Accumulator Unit	Nos.	25	112057	2801425.00
5	MOXA Converter	Nos.	50	5258.97	262948.50
Total					5248225.50

## Details of Implementation

SL No	Item	Unit	Qty	Unit - Ex Work Cost (INR)	Total - Ex Work Cost (INR)
1	Installation, Testing & Commissioning including Integration with ERDLC /Customization cost for works of Implementation of Automatic Meter Reading(AMR) for SEM in Eastern Region at Data Center	Per SEM	200	9363	1872600.00

2	Installation, Testing & Commissioning including Integration with ERDLC /Customization cost for works of Implementation of Automatic Meter Reading(AMR) for SEM in Eastern Region at Sub Station .	Per SEM	200	11988	2397600.00
3	Laying of Armoured Cable in PVC Pipe	Per Metre	11300	30.00	339000.00
<b>Total</b>					<b>4609200.00</b>

**Details of 4 years AMC**

SL No	Item	Unit	Qty	Unit - Ex Work Cost (INR)	Total - Ex Work Cost (INR)
1	Comprehensive AMC for all hardware/software /equipment including DCUs installed under this project (after the completion of warranty period) For all Sub Stations	Per SEM	200	31104	6220800
<b>Total</b>					<b>6220800.00</b>

**Details of LAN Integration**

SL No	Item	Unit	Qty	Unit - Ex Work Cost (INR)	Total - Ex Work Cost (INR)
1	Integration of PGCIL LAN with existing DCU	Per Location	40	15564	622560.00

**Details of Report Generation**

SL No	Item	Unit	Qty	Unit - Ex Work Cost (INR)	Total - Ex Work Cost (INR)
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# Pricing

1	Generating a new report section in the AMR application for ERLDC SCADA	JOB	1	802662	802662.00
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<b>Total Cost of Ownership in figures without taxes: INR.</b>	<b>17503447.50</b>
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