



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
पूर्वी क्षेत्रीय विद्युत समिति  
**Eastern Regional Power Committee**  
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NO. ERPC/COM-I/GEN/2018/1528-1559

DATE: 14.06.2017

FAX MESSAGE NO.

From: Member Secretary, ERPC

To: As per list

Sub: Minutes of 37<sup>th</sup> Commercial Sub-Committee Meeting of ERPC-Reg.

Sir,

Please find the minutes of the "37<sup>th</sup> Commercial Sub-Committee Meeting" held on 11<sup>th</sup> June, 2018 (Monday) at ERPC Conference Hall, Kolkata at ERPC website (<http://www.erpcc.gov.in>).

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

Yours faithfully,

*Jaydev Bandyopadhyay* 12/6/2018  
(J. Bandyopadhyay)  
Member Secretary

**Distribution List: CC Members:**

- 1) Director (Projects), BSPTCL, Patna (Fax:0612 250455).
- 2) Executive Director (Comml.), DVC, Kolkata ( Fax: 033 2355 2129 )
- 3) Director (Projects), JUSNL, Ranchi (Fax : 0651 2400799 / 2490486 ).
- 4) Executive Director (RT), WBSEDCL, Kolkata (Fax : 033 2359 8398/2337 3002 )
- 5) Chief Engineer (Commercial), WBSETCL, Bidyut Bhavan, Block DJ, Sector-II, Bidhannagar,Kolkata-700091 ( 033-23591952)
- 6) Chief Engineer, SLDC, WBSETCL, Howrah (033 2688 6232)
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- 12) Head (Commercial), ER-II HQ, 3<sup>rd</sup>,4<sup>th</sup> & 5<sup>th</sup> Floor, OLIC Building, N-17/2, Nayapalli, Bhubaneswar-751012, Fax: 0674-2395324
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- 15) Asstt. General Manager (F&A), Finance Wing, Ohpc, Bhubaneswar(Fax:0674 2542102)
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- 20) General Manager (R&T), OPTCL, Bhubaneswar (Fax: 0674 2542120)
- 21) Sr.General Manager (PP), Gridco, Bhubaneswar ( Fax : 0674 2547180 / 2547261 )
- 22) Vice President(Commercial), PTC, New Delhi (Fax: 011 4165 9504 )
- 23) DGM (ALDC), DPL, Durgapur ( Fax : 0343 255- 6786/6251 )
- 24) Vice-President (OPN-ER), Tata Power Co. Ltd., Jamshedpur (Fax :0657 2277298 )
- 25) Head (Commercial), MPL, MA-5 Gogna Colony, P.O- Maithon Dam, Jharkhand-828207, Fax-8860075658
- 26) President (Commercial), APNRL, Crescent Tower, 3<sup>rd</sup> Floor, Kolkata-700020, Fax-033-3091-5344
- 27) Associate Vice President (CC), GMR Kamalanga Energy Ltd. (GKEL), Bhubaneswar ( Fax : 0674-2303994 )
- 28) GM (BD&PS), NVVN Ltd, Scope Complex, Core-3, 7<sup>th</sup> Floor, Lodhi Road, New Delhi-110003
- 29) GM (Power Sales), JITPL, Plot-12, Local Shopping Complex, Sector B-1, Vasant Kunj, New Delhi-110070 (Fax:011 26121734)
- 30) General Manager ,Teesta Urja Limited, 2<sup>nd</sup>floor,VijayaBuilding,17,BarakhambhaRoad, New Delhi-110001 (Ph-9810519283, 011-46529600/4652900)
- 31) Director, Shiga Energy Pvt. Ltd., 5th Floor, DLF Building No. 8, Tower-C, DLF Cyber City, Phase-II, Gurgaon – 122002
- 32) CEO, Sneha Kinetic Power Projects Pvt.Ltd. #31 -A, National Highway, Behind SNOD building,. Deorali, Gangtok, Sikkim-737102



**AGENDA FOR THE 37<sup>TH</sup> COMMERCIAL  
SUB COMMITTEE MEETING OF ERPC**

**Date: 11th June, 2018**

**Time: 11:00 Hrs**

**Venue: ERPC, Kolkata**

# **EASTERN REGIONAL POWER COMMITTEE**

**14 GOLF CLUB ROAD, TOLLYGUNGE, KOLKATA-700 033**

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## **MINUTES OF THE 37th COMMERCIAL SUB-COMMITTEE MEETING OF ERPC HELD ON 11.06.2018 (MONDAY) AT 11:00 HRS AT ERPC, KOLKATA**

### **ITEM NO. A1: Confirmation of the minutes of the 36<sup>th</sup> Commercial Sub-Committee meeting held on 13.02.2018**

The minutes of the 36<sup>th</sup> Commercial Committee meeting were intimated vide ERPC letter No-ERPC/COM-I/GEN/2018/4133-4164 dated 21.02.2018. No request for amendment has been received by ERPC Secretariat.

*Members may confirm the minutes of the 36<sup>th</sup> Commercial Sub Committee Meeting.*

### **Deliberation in the meeting**

Members confirmed the minutes of the 36th 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.**

Deviation Pool Account Fund of ER is being maintained & operated by ERLDC, in accordance with the CERC Regulations. As per Regulations 10 (1) of “Deviation Settlement Mechanism and related matters” the payment of charges for Deviation shall have a high priority and the concerned constituents shall pay the indicated amounts within 10 days of issue of statement of Charges for Deviation including Additional Charges for Deviation by the Secretariat of the respective Regional Power Committee in to the “Regional Deviation Pool Account Fund” of the concern region.

The status of Deviation Charge payment as on 01.06.2018 is enclosed at **Annexure –I**. The current principal outstanding Deviation Charge of JUVNL & BSPHCL is **₹16.58 Cr & ₹ 5.44 Cr** respectively considering bill up to 13.05.2018. ERLDC has given reminders to BSPHCL & JUVNL to liquidate the outstanding Deviation charges.

Further SIKKIM is not paying DSM charges and waiting for adjustment with the receivable amount.

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

### **Deliberation in the meeting**

ERLDC informed that BSPHCL had partially liquidated their dues and the present outstanding stood around ₹ 5.36 Cr. The outstanding against JUVNL is also around ₹ 15.69 Cr.

BSPHCL, JUVNL & SIKKIM representatives were not present.

It was decided that ERPC Secretariat would write a letter to above constituents to liquidate the outstanding amount by 25<sup>th</sup> June 2018, failing which this issue would be taken up in the forthcoming TCC meeting.

### **B1.2: Non-payment of Deviation Charges by IBEUL**

IBEUL is not paying Deviation charges in ER DSM Pool since 12.04.2017 (more than one year) and present outstanding amount payable by M/s IBEUL towards principal deviation charges is ₹ **112.50429 Lac** considering bill up to 13.05.2018 and ₹ **10.33012 Lac** against the delayed payment interest of deviation charges till 31.05.18.

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

### **Deliberation in the meeting**

IBEUL representative was absent.

It was decided that ERPC Secretariat would write a letter to IBEUL to liquidate the outstanding amount by 25<sup>th</sup> June 2018, failing which this issue would be taken up in the forthcoming TCC meeting.

### **B1.3: 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.

Due to delayed payment of deviation charges in DSM Pool in FY 2017-18, Interest amount is computed (till 31.05.18) for all the DSM Pool Member. The statement of interest amount is enclosed in **Annexure-II**. Settlement of delayed payment Interest for 2017-18 for the recipient constituents has been done on 01.06.18.

*Respective constituents may confirm the program for payment of Interest of 2017-18.*

### **Deliberation in the meeting**

GRIDCO assured that the issue related to outstanding of Vedanta would be resolved positively by 25<sup>th</sup> June 2018 and they would confirm it in forthcoming TCC Meeting.

It was decided that ERPC Secretariat would write a letter to the concerned utilities to pay the outstanding amount by 25<sup>th</sup> June 2018, failing which this issue would be taken up in the forthcoming TCC meeting.

#### **B1.4: Reactive Energy Charges – Present Status.**

The updated position of Receipt/Payment of Reactive Energy Charges in the pool as on 01.06.2018 (considering bill up to 13.05.2018) is indicated in **Annexure –III**. The total outstanding receivable on account of Reactive charges from West Bengal is ₹ **3.34 Cr** & from SIKKIM is ₹ **2.97 Lac**. SIKKIM has not paid the Reactive energy Charges since last one year.

Out of the above amount of ₹ **3.34 Cr** i.r.o WBSETCL/WBSEDCL, 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 this regard it is to inform that WBERC vide letter no. WBERC/B-7/1/0470 dated 16.06.2017 has clarified that the Reactive Energy bills prior to 04.01.2016 is to be settled as per the previous practice followed to settle the bills. The copy of letter is attached at **Annexure-III(A)**.

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

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

WBSEDCL assured that the payment issue would be resolved by next TCC meeting.

It was decided that ERPC Secretariat would write a letter to SIKKIM to clear the outstanding amount by 25<sup>th</sup> June 2018.

#### **B1.5: 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 01.06.2018 (considering bill up to 13.05.2018) is indicated in **Annexure – IV**. So far ₹ **42.4 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.

#### **B1.6: Congestion account - Present Status**

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

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

Members noted.

## **B1.7: Status of PSDF**

An amount of ₹ 4.28Cr from Reactive account have been transferred to PSDF after 36th Commercial sub-committee meeting held on 13.02.18. With this the total amount of ₹ 943.6 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 31.05.18) is enclosed in **Annexure VI**.

*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 4th quarter of 2017-18, the reconciliation statement (Period: 01.01.18 to 31.03.18) has been issued by ERLDC on 09.04.18 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 30.04.2018. The status of reconciliation is enclosed in **Annexure-VII**.

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

TEESTA-III, THEP (Shiga) & JLHEP have not yet signed reconciliation statement for more than 2 quarters.

BSPHCL, JUVNL, DVC, GMR, JITPL, TPTCL (DAGACHU), BRBCL, Powergrid(ER-I) & Dickchu have not signed reconciliation statement for last quarter of 2017-18.

*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 will be deemed to have been reconciled.*

*Members may please note.*

### **Deliberation in the meeting**

ERLDC informed that TEESTA-III, BRBCL & POWERGRID (ER-I) have reconciled the statement for their respective pending quarters.

BSPHCL, JUVNL, DVC, SIKKIM, GMR, JITPL, TPTCL, IBEUL, DIKCHU, THEP & JLHEP representatives 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 4<sup>th</sup> quarter of 2017-18, the reconciliation statement (Period: 01.01.18 to 31.03.18) has been issued by ERLDC on 09.04.18 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 have reconciled the Account and sent the signed statement.

*SIKKIM & GRIDCO may reconcile the Reactive account.*

### **Deliberation in the meeting**

GRIDCO informed that the reconciled Reactive Account statements had already been forwarded to ERLDC.

SIKKIM representative was absent.

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

At the end of 4<sup>th</sup> quarter of 2017-18, the reconciliation statement (Period: 01.03.18 to 31.03.18) has been issued by ERLDC on 09.04.18 and statements had been sent to the respective constituents (NTPC and BRBCL) and also uploaded the same at ERLDC website at link <https://erlhc.in/market-operation/rrasreconciliation/> NTPC & BRBCL has not reconciled the RRAS Account.

*NTPC and BRBCL may please reconcile the RRAS account.*

### **Deliberation in the meeting**

It was informed that NTPC & BRBCL had reconciled the RRAS Account statements.

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

The reconciliation statements of STOA payments for the entire period of 2017-18 have been sent to the DVC, OPTCL and WBSETCL for checking at their end and confirmation from their side.

WBSETCL is yet to confirm for Quarter-II, Quarter-III and Quarter-IV of 2017-18. DVC and OPTCL is yet to confirm for Quarter-IV of 2017-18. DVC and OPTCL are yet to confirm for Quarter-IV of 2017-18.

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.

*Members may update.*

### **Deliberation in the meeting**

It was informed that WBSETCL and OPTCL had done the reconciliation for the respective quarters.

DVC representative was absent.



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

The reconciliation statements of STOA payments for the entire period of 2017-18 have been sent to the CESC, GMR Kamalanga, JITPL, JUVNL, MPL and WBSEDCL for checking at their end and confirmation.

CESC, GMR Kamalanga, JITPL and MPL have confirmed for the entire period. JUVNL and WBSEDCL are yet to confirm for Quarter-IV of 2017-18.

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 is attached in the **Annexure-VIII**

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**

WBSEDCL confirmed that they would reconcile within 2 days.

JUVNL, GMR, JITPL & MPL representatives were not present.

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**

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

IBEUL, Tashiding, Dickchu and Teesta-III have to open Fresh LC; they have not opened the LC till date. JUVNL, SIKKIM, Chuzachen and BRBCL have not renewed the LC after expiry of their LC in March 2018.

Rest of the constituents have either valid LC.

*Constituents may please intimate the latest status LC.*

### **Deliberation in the meeting**

It was informed that DIKCHU, BRBCL had opened their LC and for TEESTA-III, it is in process.

JUVNL, GMR and IBEUL, CHUZACHEN, SIKKIM, THEP representatives were not present in the meeting.

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

### **ITEM NO. B4: Meter reading related issues**

#### **B4.1: Erroneous recording of data by Interface Meters**

##### **B4.1.1: Budhipadar (OPTCL)**

Meter NP-5844-A installed at Budhipadar (OPTCL) of 220 KV Korba (WR) Line-2 is recording 50 % Less compared to Korba end meter. It was gathered from OPTCL that the Line was taken in shut down for Bus PT related work at Budhipadar on 24.05.18. The problem started w.e.f 00:00 Hrs of 25.05.18 soon after charging of the Line. ERLDC requested OPTCL to check CT/PT Connection along with measurement of Current and Voltage input to the meter. However till now problem is persisting. Since the line is an inter-regional Tie Line and accounting of GRIDCO and WR both is being done with the same meter, early rectification is required to be done.

*GRIDCO/PGCIL may please update the status*

### **Deliberation in the meeting**

It was informed that there was a problem with Y phase CT fuse. The same had been rectified on 05.06.18.

##### **B4.1.2: Daltonganj (JUSNL)**

Daltonganj (JUSNL) end meter of 132 KV Daltonganj(PG) Line-2 is recording almost Nil value since Charging of the Line. The matter was reported to PGCIL and JUSNL to correct the problem at JUSNL end. Even after several communications from ERLDC the problem is still persisting.

*JUSNL/PGCIL may please update the status.*

### **Deliberation in the meeting**

POWERGRID informed that at present the line is under shutdown.

POWERGRID was advised to check and resolve the issue before charging the line.

## **B4.2: Non Receipt of SEM data from Various Locations**

### **B4.2.1: Ind-Barath (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 Sundergarh is being affected. Several reminders through mail and phone were sent to the representatives of IBEUL but till date no data is received.

*IBEUL may please update.*

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

IBEUL representative was absent.

### **B4.2.2: Motihari, Betiah and Raxaul (BSPTCL)**

BSPTCL end meter data from Motihari, Betiah and Raxaul end of DMTCL Motihari Line is not being sent by BSPTCL on regular basis. 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**

BSPTCL representative was absent. It was decided that the issue would be taken up in the forthcoming OCC meeting.

### **B4.2.3: Bidhannagar (WBSETCL)**

Defective meter NP-6485-A at Bidhannagr (WB) end of 220 KV Waria(DVC) Line-2 is replaced with Genus meter on 23.05.18. However Meter data of newly installed Genus meter is not being sent by WBSETCL.

*WBSETCL may please respond.*

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

WBSETCL representative informed that they have no laptop for downloading the newly installed Genus meter data. ERLDC suggested that the latest version of the software, which is available on ERLDC website, may be installed in the existing laptop in order to successfully send the meter data.

### **B4.3: Reverse Polarity of meter**

Following meters installed at different Locations are connected in Wrong/Reverse Polarity since installation of meters which needs to be corrected. The matter has already been informed to respective Sub stations through e mail and telephonically.

| Location           | SEM S. No           | Line                                       | Responsibility | Present Status |
|--------------------|---------------------|--|----------------|----------------|
| Raxaul (BSPTCL)    | ER-1248-A ER-1249-A | 132 KV Raxaul-Motihari DMTCL D/C Line      | BSPTCL/PGCIL   | Same           |
| Darbhangha (DMTCL) | ER-1272-A ER-1273-A | 400 KV Darbhanga DMTCL-Muzafarpur D/C Line | DMTCL/PGCIL    | Same           |

The matter was last discussed in 36<sup>th</sup> Commercial sub Committee Meeting. However the polarity is still reversed.

*BSPTCL/ DMTCL may correct the Polarity of the meters at their end.*

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

It was informed that Polarity of Raxaul(BSPTCL) end had been corrected.

DMTCL representative was not present.

It was decided that ERPC Secretariat would write a letter to DMTCL to rectify the polarity of the meter.

### **B4.4: High error between Main and Check Energy Meters**

#### **B4.4.1: Main and Check Energy Meters of 220kV CB Feeder No.II at Birpara end**

The difference between main and check energy of 220kV Chhukha-Birpara Feeder II at Birpara end is showing high error of 1.08% and 1.00% for February and March 2018 respectively. The error is more than the allowable limit of 0.6%.

The Check Energy Meter which belong to Bhutan has been tested during January, 2018 and found to be within permissible limit. The main energy meter at Birpara end for 220kV CB Feeder No. II & III pertaining to PTC/POWERGRID was replaced with Genus make energy meter on April 20, 2017.

Therefore, PTC/POWERGRID is requested to test the Main Energy Meter at Birpara end.

The issue was discussed in 144<sup>th</sup> & 145<sup>th</sup> OCC meetings.

*Bhutan/Powergrid may update.*

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

Bhutan representative informed that during the last OCC meeting PGCIL and DGPC had agreed to monitor the performance of meters. For the month of May 2018, it was found that the error was within the permissible limit. The meters will be under observation and if the variation is more than the permissible limit, it would be reported to house.

Further, Bhutan informed that the difference between main and check energy of Jigmeling ICT is also on very higher side. Therefore the check meters may be tested for their performance.

It was decided that ERPC Secretariat would write a letter to PTC to test the check meters and if required meters may be replaced.

#### **B4.4.2: Main and Check Energy Meters of 400kV Malbase – Siliguri Feeder – III (Siliguri end)**

The percentage error observed for Main Energy Meter of 400kV Siliguri-Malbase Feeder –III (Siliguri end) is beyond permissible limit for the Month of February & March 2018. As per Power Purchase Agreement (PPA) the percentage error should not exceed 0.6%. The Check Energy Meter which belong to Bhutan has been tested on 19th January, 2018 and found to be within permissible limit.

Therefore, PTC/POWERGRID is requested to test the Main Energy Meter at Birpara end.

The issue was discussed in 144th & 145<sup>th</sup> OCC meetings.

*Bhutan/Powergrid may update.*

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

Bhutan representative informed that during the last OCC meeting PGCIL and DGPC had agreed to monitor the performance of meters. For the month of May 2018, it was found that the error was within the permissible limit. The meters will be under observation and if the variation is more than the permissible limit, it would be reported to house.

#### **ITEM NO. B5: Implementation of Automatic Meter Reading in Eastern Region**

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-X**.

Presently 145 Locations with 924 meters are connected through AMR system in ER. ERLDC is receiving data from 125 locations out of total 145 locations through AMR. The latest status of data receipt from the locations as below:

- Number of meters for which data is received: 705
- Number of locations for which data is received: 125 locations

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. Of late, there have been issues with the GPRS communication/DCU for around 20 locations having 220 meters.

*POWERGRID may update the status of implementation.*

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

POWERGRID informed that the implementation of the remaining locations/meters would be done by August 2018.

**ITEM NO. B6: 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. TCS has successfully connected 03 locations (Malda-PG, Subhasgram-PG and Binaguri-PG) in ER-II with PGCIL intranet and these two locations are smoothly reporting to AMR system after connecting with PGCIL LAN. The proposed network will not only provide better communication but also reduce the cost of GSM. The above matter was last discussed in 145<sup>th</sup> OCC meeting also.

*POWERGRID may please further update.*

**Deliberation in the meeting**

POWERGRID informed that the replacement of GPRS communication of the remaining 34 locations would be completed by August, 2018.

**ITEM NO. B7: Accounting of state drawl from Substation of PGCIL/ISTS Licensee in ER**

State net drawl from Substation of PGCIL/ISTS Licensee in ER is being computed considering meter installed at feeders on LV side of Transformer due to the fact that for a few ICTs, multiple states used to draw through same ICT. Further, Sub stations where auxiliary requirement is met through tertiary of the IST ICT, States net drawl is computed by adding drawl through feeders after LV side of Transformer and auxiliary consumption through tertiary. Presently with network strengthening and re-configuration in ER, such case of multiple State/entity drawing power from same ICT of PGCIL/ISTS Licensee does not exist anymore.

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 Sate 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 order to enable ERLDC compute the state drawl through ICTs of PGCIL & other ISTS Licensees in ER as per CEA Regulations, PGCIL is requested to install meters at HV and LV side of ICTs at the stations.

In 144<sup>th</sup> OCC, Powergrid informed that SEMs are already available at some stations. OCC advised Powergrid to check the healthiness & time synchronization of the installed SEMs and install new SEMs wherever it is required.

*POWERGRID may please update the latest status.*

**Deliberation in the meeting**

POWERGRID informed the status of installation of SEMs at HV sides of ICTs as follows:

- a) ERTS-I: Completed
- b) ERTS-II: 5 completed; rest 18 would be completed by July 2018.
- c) ODISHA: Would be completed by July 2018.

Further, POWERGRID was advised to check and correct the time drifting of old SEMs available at HV side of ICTs.

**ITEM NO. B8: Time correction of SEMs in Eastern Region- Replacement of heavily drifted SEMs**

The issue was discussed in 35th TCC/ERPC meetings and it was felt that the meters with severe drift greater than 10 min need to be replaced first and if replacement is done with Genus then readings are to be collected manually using Laptop till interfacing with AMR is completed. Subsequently drifted meter replacement work of Phase –I for 24 meters and Phase-II for 23 Meters have been completed. In 141<sup>st</sup> OCC, List of 22 drifted meters to be replaced in Phase-III was placed as per **Annexure-XI**.

In 145th OCC, Powergrid updated that new SEMs have been received and Meters at Rangpo, Gangtok and New Melli is replaced.

*POWERGRID may please further update the status.*

**Deliberation in the meeting**

POWERGRID informed the status as follows:

- a) ERTS-I: 3 nos. of meters replaced
- b) ERTS-II: 8 nos. of meters replaced. 10 Nos. of meters of TEESTA-III would be replaced by next week.
- c) ODISHA: 1 no. of meter replaced.

**ITEM NO. B9: 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 31st 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.

*POWERGRID may update the status of delivery of remaining meters.*

**Deliberation in the meeting**

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

**ITEM NO. B10: Replacement of Elster Meters**

In Eastern Region, 28 nos of Elster make meters had been installed at 5 locations (Teesta-III, New Melli, Alipurduar, New Ranchi & Kishanganj) initially due to scarcity of meters. As informed by M/s TCS (also Confirmed by PGCIL) Elster make meters can't be integrated in AMR system with existing DCU. To enable all such locations to report data in AMR, a List of

Elster meters to be replaced was placed in 36<sup>th</sup> CCM as per **Annexure-XII**. As per ERLDC record, 04 meters at Alipurduar and 02 meters at New melli is replaced so far.

*POWERGRID may please update on the issue.*

### **Deliberation in the meeting**

POWERGRID ERTS-II informed that 6 nos. of meters had already been replaced, 10 Nos. of meters of TEESTA-III would be replaced by next week and the remaining 8 nos. of meters would be replaced by 15<sup>th</sup> July 2018.

ERTS-I informed that 4 SEMs had been replaced.

### **ITEM NO. B11: Software related issue with Genus meter**

It has been observed that in case of shutdown of any line/element throughout the day, the meter output NPC report (Text file) generated with help of BCS urja software doesn't show the data of that day and it goes missing from the output file. This results different start date & caused difficulties in processing of the same, as processing requires manual intervention & handling of such huge data manually always invites error. The issue was raised with PGCIL to take the matter with M/s Genus and get changes in the software and latest patch of the software should be made available. Till now the issue is not resolved and problem still persists.

*POWERGRID may please update the status.*

### **Deliberation in the meeting**

POWERGRID informed that the software related issue would be resolve by July 2018.

ERLDC informed that the latest version of the software is available on ERLDC website. The same may be installed and used to download the SEM data.

Further it was decided that a workshop on software related issue with Genus meter would be conducted at ERPC in July 2018.

### **ITEM NO. B12: Scheduling of Chuzachen HEP and Tashiding HEP**

Scheduling of Chuzachen HEP and Tashiding HEP is carried out by ERLDC, as per Indian Electricity Grid Code Clause 6.4.3. The clause 6.4.3 states that

#### ***Quote:***

*“There may be exceptions with respect to above provisions, for reasons of operational expediency, subject to approval of CERC. Irrespective of the control area the jurisdiction, if a generating station is connected both to the ISTS and the STU, the load dispatch centre of the control area under whose jurisdiction the generating station falls, shall take into account grid security implication in the control area of the other load dispatch centre. ”*

***Unquote***

Presently for net injection of Chuzachen ,Gangtok(PG) and Rangpo(PG) end meter is used and for Tashiding net injection ,New Melli(PG) and Rangpo(PG) end meter is being used.



It was decided in the 36<sup>th</sup> ERPC meeting that Tashiding will approach CERC and obtain approval from Hon'ble commission regarding scheduling of Tashiding HEP by ERLDC. Tashiding HEP and Chuzachen HEP are yet to approach CERC for the said approval.

*Member may please discuss.*

### **Deliberation in the meeting**

After detailed deliberation in line with the decision of 36<sup>th</sup> TCC meeting the followings were decided:

- i) The metering points for Chuzachen and Tashiding HEPs, would be at CTU end.
- ii) As Chuzachen and Tashiding HEPs are embedded generators of Sikkim, both need to seek approval from CERC regarding scheduling by ERLDC.

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

#### **B13.1: 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                | 29.00                |
| (ii)  | South Bihar Power Distribution Company Limited(SBPDCL) | 8.89                | 40.00                |
| (iii) | Ind-Barath Energy (Utkal) Limited                      | --                  | 17.50                |
| (iv)  | South Eastern Railway                                  | --                  | 3.15                 |
| (v)   | NTPC Darlipali   | --                  | 1.68                 |

(v) NTPC Darlipali has open requisite LC for start-up power. However NTPC yet to open LC for Bilateral bill for 765kV D/C Darlipali TPS(NTPC)-Jharsuguda(Sundargarh) pooling station.

*Respective utilities may confirm their plan for enhancement of LC.*

### **Deliberation in the meeting**

NTPC Darlipali informed that their LC opening is under process.

NBPDCL, SBPDCL, IBEUL and SER representatives were not present.

It was decided that ERPC Secretariat would write a letter to concerned utilities regarding the above issue.

**B13.2: Opening of new LC towards grant of LTA from Kanti Bijlee Utpadan Nigam Limited Stage –II (2x195 MW)**

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

| SI No | Name of DIC's  | Amount(in Cr.)         |
|-------|--|------------------------|
|       |  | 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                   |
|       | <b>Total</b>   | <b>2.42</b>            |

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.

*Respective utilities may confirm their plan for opening the new LC.*

**Deliberation in the meeting**

All the concerned utilities were advised to open the respective LCs for requisite values as per the guidelines of CERC.

**B13.3: Payment of Outstanding dues more than 60 days:**

| S. 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.  | 40.64                  | 9.52                              |
| (iii) | Jindal India Thermal Power Limited                               | 2.55                   | 2.55                              |
| (iv)  | Ind-Bharat Energy (Utkal) Limited                                | 214.29                 | 193.84                            |
| (v)   | Damodar Valley Corporation(DVC)                                  | 143.08                 | 138.16                            |
| (vi)  | West Bengal State Electricity Distribution Company Ltd.(WBSEDCL) | 105.78                 | 8.73                              |
| (vii) | GRIDCO Ltd   | 23.26                  | 23.26                             |
|       | <b>Total</b>   | <b>541.89</b>          | <b>387.65</b>                     |

(vi) The outstanding pertaining to WBSEDCL (Surcharge @ 7.30 Cr & Bill # 4 @ 1.43 Cr)

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

*Respective utilities may confirm their plan clearing the outstanding.*

**Deliberation in the meeting**

WBSEDCL informed that their payment is under process.

Payment issue of GRIDCO could not be discussed as the matter is sub-judice.

VEDANTA, GMR, JITPL, IBEUL & DVC representatives were not present.

**B13.4: List of Assets commissioned by POWERGRID.**

**List of Assets commissioned by POWERGRID is enclosed in Annexure XIII**

**Deliberation in the meeting**

Members noted.

**ITEM NO. B14: Agenda items by DGPC, Bhutan**

**REA of CHP, THP & KHP for the month of April, 2018**

There was a net import of energy from the Indian grid to the western as well as eastern grid of Bhutan during the months of February & March 2018 as below.

| <b>Month</b>  | <b>Western Grid</b> | <b>Eastern Grid</b> | <b>Total</b> |
|---------------|---------------------|---------------------|--------------|
| February 2018 | 5.867191 MU         | 6.45503 MU          | 12.322221 MU |
| March 2018    | 12.724337 MU        | 4.276482 MU         | 17.000819 MU |
| Total         | 18.591528 MU        | 10.731512 MU        | 29.32304 MU  |

In the month of April 2018, there was a net export of 47.248375 MU from the western grid and 4.417039 MU from the eastern grid through Jigmeling. Therefore, for April 2018 billing, DGPC had first applied the ratio and then netted off the total western grid import for February and March 2018 totaling to 18.591528 MU from the April 2018 energy export share of THP. With this, the energy export from CHP for April 2018 month works out to 35.563168 MU which also includes the export through Jigmeling, while the energy export share of THP for the same month after adjusting the February and March 2018 import of 18.591528 MU works out to -2.489282 MU. This short fall of 2.489282 MU from the western grid plus the 10.731512 MU imported through the eastern grid in February and March 2018 shall be adjusted from the THP energy export of May 2018.

The above method of energy accounting was considered due to the following reason:

*The import of energy for both February & March 2018 in the western grid had occurred in the THP system, whereas the export energy was always positive from CHP for both the months. Since the import of energy has occurred in THP system, hence it was only logical that the adjustment for the import be carried out from the export energy share of THP.*

However, ERPC vide their letter No. ERPC/COM-I/REA/2018/907-925 dated May 15, 2018 addressed to PTC India Ltd. has issued REA for CHP, KHP & THP energy export for the month of April 2018. ERPC has deducted the entire import of 18.591528 MU in western grid during February & March 2018 from the total energy export by CHP & THP in the month of April, 2018, and thereafter applied the ratio to derive export energy by CHP & THP which is not found logical as THP and CHP has different export tariffs.

DGPC vide letter No. DGPC/O&MD/24/2018/221 dated May 17, 2018 highlighted the above facts and requested ERPC to maintain the export energy accounting for the month of April 2018 by CHP & THP as below, as already billed to PTC India Ltd.

|     |              |   |
|-----|--------------|---|
| CHP | 35.563168 MU | 65.92% of 47.248375 + 4.417039 for Jigmeling adjustment                                   |
| THP | 0.00 MU      | Import of 2.489282 MU + 10.731512 MU to be adjusted in the energy bill of May 2018 by THP |

Therefore, considering the above justification provided by DGPC, ERPC is requested to accept the above request and revise the energy export accounting for CHP & THP for the month of April 2018 as requested vide DGPC letter dated May 17, 2018.

*DGPC may elaborate. Members may please discuss.*

### **Deliberation in the meeting**

The representative of Bhutan elaborated the issue. He noted that, during the months of February, 2018 and March, 2018, there was a net import of power from the Indian grid by Bhutan. However, there was export of power from Bhutan to India during the month of April, 2018. The net export of Bhutan power was computed after subtracting the total import of power during the months of February, 2018 and March, 2018 from the total export during the month of April, 2018. After accounting the Kurichu power, the net import was apportioned between Tala and Chukha as per the methodology given by the CERC order.

Representative of Bhutan outlined the financial loss accrued to Bhutan due to the computational procedure adopted by ERPC for segregation of export of power to India into Chukha and Tala component. He pointed out that Bhutan exports the costliest power to India after consuming the cheapest power for meeting the internal load of Bhutan. He requested to look into this aspect and revise the REA accordingly.

Member Secretary, ERPC observed that the genesis of the issue lies in the fact that no defined procedure is in place for treating the import of power by Bhutan. As such, ERPC Secretariat has adopted a very simple and pragmatic procedure of adjusting the import of power by Bhutan in any month against the export of power by Bhutan in subsequent month (s). Any change in the computation is likely to impact the beneficiaries of Bhutan power in India. However, he agreed to explore the financial impact on individual beneficiary for the change of the accounting philosophy during the months of February, 2018 and March, 2018. He hoped that with the commissioning of Mangdechhu, such situation would be avoided in future.

### **ITEM NO. B15: Agenda items by GRIDCO**

#### **B15.1: Auxiliary power consumption by Powergrid substations**

- In the 35th commercial sub-committee meeting held on 02.08.2017 it was decided that the drawl of auxiliary power from tertiary winding by power grid substations would be treated as state drawl for inter-regional accounting. Power grid and the states would make back to back commercial arrangement for this power.
- ERLDC request Powergrid to submit the requisite information such as meter no, CTR, PTR, etc in respect of those meters and also make reading available in time. Subsequently in 36th TCC & ERPC meeting held on 13th & 14th September, 2017 it was ratified.

- In 133rd, 134th and 135th OCC meeting Powergrid was advised to submit the details of SEMs and the readings connected to tertiary windings to ERLDC/ERPC regularly for accounting of the tertiary load arrangement. Further OCC decided that after getting the SEMs details of all tertiary loadings, ERPC/ERLDC will devise a mechanism for accounting of the tertiary arrangement.
- On the basis of above deliberation and decision ,ERPC/ERLDC started to Gridco on the quantum of auxiliary energy consumption by Powergrid drawing from the tertiary winding of ICT of different Powergrid sub –stations ;located within the geographically territory of Odisha since October-2017.
- Regulation 39 of CERC Tariff regulations ,2014 stipulates that auxiliary energy consumption in the substation shall be borne by the transmission licensee and included in the normative O&M expenses admissible for transmission system as per regulation 29(4) of 2014 Tariff regulations has already been factored by CERC in transmission on tariff.
- In view of the above, in order to realize the cost of the auxiliary energy consumed by Powergrid from various sub-stations, GRIDCO convened a meeting on 04.04.2018 with the representatives of Powergrid with a suggestion to become the consumer of state DISCOM Utilities and make the payment towards the auxiliary energy consumption as per the applicable tariff. Further GRIDCO impressed upon power that the amount to be paid to DISCOM utilities of ODISHA should not be further claimed in transmission tariff as the same has already jointly signed by Powergrid and GRIDCO will be put forth before the Hon'ble CERC for not considering the payment made towards energy consumption in the transmission tariff.
- The above communication to CERC is only for information purpose, because GRIDCO has not participation in Transmission Tariff Petition during the tariff period 2014-19 as large number of transmission tariff petitions had been filed by PGCIL in all India level and GRIDCO has no scope to put its view before Hon'ble Central commission except in case of (+/-) 800 KV BNC-Agra HVDC transmission line.
- In this regard Powergrid is not signing the minute for commercial settlement and remaining silent. Further Powergrid becoming the consumer of DISCOMs Utility in order to raise the bills by Distribution Utilities to Powergrid till finalization of the above minutes.
- In view of the above GRIDCO requests the secretary ERPC to accept this as agenda item of GRIDCO and deliberate in the 37th Commercial Sub-Committee meeting.

This issue was discussed in the 145th OCC meeting held on 21st May, 2018. In the meeting, GRIDCO requested to place an agenda in commercial meeting to know the procedure being adopted by other states to recover the auxiliary power consumption charges from Powergrid.

*GRIDCO may elaborate. Members may please discuss.*

### **Deliberation in the meeting**

GRIDCO representative submitted that the drawl of auxiliary power through tertiary winding by the POWERGRID Sub – stations is treated as drawl by GRIDCO for the purpose of DSM computation. As such, ODISHA ends up paying to DSM pool at frequency linked rate for the power drawn by POWERGRID Sub – station. As such, GRIDCO should be reimbursed. Further GRIDCO pointed out that the power drawn by the Sub – station of POWERGRID as auxiliary power should be treated as power supplied by the DISCOM located in that area. Therefore, POWERGRID should make payment to the concerned DISCOM of ODISHA for the power drawn through the tertiary winding. The DISCOM, in turn, should reimburse to

GRIDCO at the frequency linked rate for the power drawn by POWERGRID sub-station. It was also emphasised by GRIDCO that the charges for auxiliary energy consumption are already factored into normative O&M expenses.

In reply, POWERGRID confirmed that they are ready to make payment for the auxiliary power drawn through the tertiary winding. However, proper mechanism of billing, settlement etc. should be in place.

Member Secretary, ERPC suggested to hold a separate meeting at ERPC with GRIDCO, POWERGRID, ERLDC etc. to sort out the issue.

Members accepted the proposal of Member Secretary, ERPC.

### **B15.2: Workshop on transmission deviation charges 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 please discuss.*

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

It was decided that a workshop would be organized on the above mentioned topic at ERPC in July, 2018.

### **ITEM NO. B16: Agenda items by NHPC**

#### **B16.1: Signing of reconciliation statement.**

The reconciliation statements for Quarter-IV (2017-18) are yet to be reconciled by all the beneficiaries except for WBSIEDCL, JUVNL, SIKKIM & GRIDCO which have been already sent to beneficiaries on dated 18.04.2018

*NHPC may update. Beneficiaries may like to respond.*

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

WBSIEDCL, GRIDCO assured that the signed reconciliation statements would be sent shortly. JUVNL, SIKKIM representatives were absent.

#### **B16.2: Payment of Late Payment Surcharge by DVC.**

The total amount of LPS ₹ 2,40,971 is still pending against energy supplied from Rangit & Teesta Power Stations despite directions of MoP and persistent requests by NHPC

*DVC may confirm the program for payment.*

### **Deliberation in the meeting**

DVC representative was absent.

#### **B16.3: Non-Opening of LC of requisite value**

All the beneficiaries are intimated that the calculation sheet of LC for F.Y 2017-18 have been sent which is based upon 105% of average billing w.e.f Jan'2016 to Dec'2016. All the concerned beneficiaries are requested to enhance the existing LC or open the new LC of requisite value before 31st March'2017 and same should be valid up to 31<sup>st</sup> March '2018.

NBPDCL, SBPDCL and JBVNL have not yet provided the LC of requisite amount despite repeated request by NHPC. The beneficiaries NBPDCL, SBPDCL & JUVNL are requested to open L.C amounting to Rs.6.85 Crs, Rs 9.07 Crs and Rs.8.47 Crs respectively at the earliest being a statutory requirements as per PPA.

| <b>S. No</b> | <b>Beneficiaries</b> | <b>Existing L.C Amount</b> | <b>Expiry date</b> | <b>Required L.C Amount</b>            | <b>Difference</b> |
|--------------|----------------------|----------------------------|--------------------|---------------------------------------|-------------------|
| (i)          | NBPDCL               | 2.74 Crs                   | 26.12.2018         | 6.85 Crs (Validity Up to 31.03.2019)  | 2.01 Cr           |
|              |                      | 2.10 Crs                   | 17.12.2018         |                                       |                   |
| Total        |                      | 4.84Crs                    |                    |                                       |                   |
| (ii)         | SBPDCL               | 5.1025 Crs                 | 26.12.2018         | 09.07 Crs (Validity Up to 31.03.2019) | 1.0672 Crs        |
|              |                      | 2.90 Crs                   | 18.12.2018         |                                       |                   |
| Total        |                      | 8.0025 Crs                 |                    |                                       |                   |
| (iii)        | JUVNL                | 8.24 Crs                   | 16.10.2018         | 8.47 Crs (Validity Up to 31.03.2019)  | 23 Lcs            |

*NHPC may elaborate. Beneficiaries may like to respond.*

### **Deliberation in the meeting**

SBPDCL, NBPDCL & JUVNL representatives were absent.

#### **B16.4: Signing of PPA in respect of Tawang H.E.Project, Stage - II.**

Signing of Power Purchase Agreement is pending with GRIDCO, JBVNL & WBSEDCL. All the three beneficiaries may be again requested to sign the long pending Power purchase agreement at the earliest.

*NHPC may please update.*

### **Deliberation in the meeting**

NHPC was advised to take up the signing of PPA individually with the concerned utilities.

## **ITEM NO. B17: Additional agenda.**

### **B17.1. Commissioning of 400 kV D/C(Quad) Nabinagar II – Gaya Transmission line along with bays**

In the 36th CCM, POWERGRID had informed that 400 kV D/C(Quad) Nabinagar II – Gaya Transmission line along with 2 nos. associated bays at Gaya substations under “Associated Transmission System for Nabinagar-II TPS(3x660MW) is going to be charged in end February 2018.

Nabinagar system consists of two lines; Nabinagar II – Gaya TL and Nabinagar II – Patna TL. M/s Nabinagar Power Generating Company Private Ltd. (A Joint Venture of NTPC Ltd. And Bihar State Holding Company Ltd.) had requested POWERGRID to commission one TL matching with commissioning of first unit by September 2017. POWERGRID agreed to make its best effort to expedite the commissioning of Nabinagar – Gaya 400 kV D/C (quad) TL and bay extension at Gaya to match with the first unit of NPGCPL. POWERGRID’s effort to match the transmission line with the Generation is recorded in the 14<sup>th</sup>JCC meeting held on 20.09.17 and further in the 15<sup>th</sup> JCC meeting held on 20.12.17.

Despite severe RoW constraints, efforts have been made by POWERGRID to commission the Nabinagar II – Gaya Transmission line to enable NTPC unit to draw start up power, so that it is timely commissioned and beneficiaries may avail its power in time. POWERGRID has commissioned the transmission line in May 2018. NTPC has agreed to pay the applicable transmission charges as per CERC regulations ie. till the operationalisation of LTA after which the line shall become part of the PoC pool.

Members may note and approve the early commissioning of the line.

### **Deliberation in the meeting**

In the OCC meeting Powergrid informed that concerted efforts were made by Powergrid to commission the Nabinagar – Gaya transmission line in May, 2018 to enable Nabinagar Power Generating Company Private Limited to draw start up power. Powergrid further informed that NTPC had agreed to pay the applicable transmission charges for the intervening period between the date of commissioning of the line and the operationalization of the LTA.

NTPC thanked Powergrid for the timely completion of the line and agreed to pay the transmission charges as stated by Powergrid above.

### **B17.2. Agenda by KBUNL**

The major problems which we are facing are listed as follows:

1. Installed software in the provided Laptop is old which is not supporting the conversion of dlm files in the proper format of NPC file.
2. DLM file of each meter is generated separately & same no. of NPC files are generated, which caused difficulty in calculation of net import/export. Single DLM file & single NPC file for all meters be generated to use more conveniently.
3. Start & End date of individual meters differ in case of tripping/shutdown of any line, even downloading of all meters data on same date which caused very difficulty in processing the same & triggers errors in calculation.



4. In case of Import, the Energy meter readings moves 0 to +ve values in place of five digit values which creates problems in understanding the nature of net energy flow i.e whether it is export or import.(For example:EMR as on 5th Jun was 7.2 & on 6th Jun it was 97.5 it indicates +ve direction of EMR & indicates export whereas it was import and on 08th Jun 18 the reading was 288.7 i.e. EMR advances but there is import)
5. Common optical port cable quality is not up to mark, it got disjointed (soldering got failed at junction frequently) during handling & other supplied cable is not working since delivery.
6. Downloading time of each meter is too high i.e it takes about 10 minutes in downloading of ach meter, in case of our station we waste 4 to 5 hrs in downloading earlier this time was only 1 to 2 minutes per meter.
7. Downloading with Laptop is also very difficult in comparison of hand held DCD as cable length is not too long to capture data conveniently & meters installation are also at different locations.
8. No User manual has been supplied resulting problem in understanding the display.
9. No demonstration regarding use of software has been delivered
10. Timely online help is also not been provided/available for rectification of the same.

### **Deliberation in the meeting**

ERLDC informed that the latest version of the software is available on ERLDC website. The same may be installed in existing laptops and used to download the SEM data.

POWERGRID was advised to make available the latest version of software at GENUS website.

Further it was decided that a workshop on software related issue with Genus meter would be conducted at ERPC in July 2018.

## PART C: ITEMS FOR INFORMATION

**Members noted for compliance of the following items.**

**ITEM NO. C1: Installation of new PWC made STOA software at ERLDC.**

ERLDC has successfully migrated to new Short Term Open Access (STOA) w.e.f. 1<sup>st</sup> June'18 by PWC. A training programme was arranged on the functioning of new STOA software on 24<sup>th</sup> May, 2018 at ERPC conference hall, Kolkata. For any query related to functioning, log in detail etc. please contact Shri Subhendu Mukherjee, Mob: 9433041874, E-mail: [subhendu@posoco.in](mailto:subhendu@posoco.in).

*Members may note.*

**ITEM NO. C2: STU and SLDC Transmission & Operating charges.**

**C2.1: 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:

| Name of STU | Intra-State Transmission Charges | TRANSMISSION LOSS<br>(For Embedded entities) |
|-------------|----------------------------------|--|
| WBSETCL     | *                                | 3.10%  |
| DVC         | Rs. 80 / MWh                     | 2.68%  |
| OPTCL       | Rs. 62.5 / MWh                   | 3.0%   |
| 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.

**C2.2: State Load Despatch Centre Operating Charges for STOA for FY 2018-19**

| Name of SLDC | SLDC Operating Charge |
|--------------|-----------------------|
| 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 Despatch 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.

*This is for information to the members.*

**ITEM NO. C3: 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 |
|------|-----------------|--------|------------------------------|------|-----------|-----------------|
|      |                 |        |                              |      |           |                 |

*Members may note for compliance.*

**ITEM NO. C4: Updating of CT/PT Ratio**

The meter details along with the CT/PT ratio has been uploaded at ERLDC website at link <https://erldc.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.

*Members may note for compliance.*

**ITEM NO. C5: 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. 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: Pandiabali, WBSETCL (North Bengal, Kharagpur) & SIKKIM

*POWERGRID, WBSETCL & SIKKIM are requested to please adhere to the schedule.*

**ITEM NO. C6: 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.

*Members may note for compliance.*

#### **ITEM NO. C7: Nomination of Nodal Officers by Regional Entities**

All Regional entities are 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, 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 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.

*Members may note for compliance.*

The meeting ended with thanks to the chair.

\*\*\*\*\*

# ANNEXURES

**ERPC::KOLKATA**  
**ATTENDANCE SHEET**

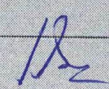


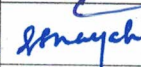

**37<sup>TH</sup> COMMERCIAL SUB-COMMITTEE MEETING**

VENUE: ERPC CONFERENCE ROOM, KOLKATA

TIME: 11:00 HRS

DATE: 11.06.2018 (MONDAY)

| Sl. No. | Name                | Designation & Organisation | Contact Number | E-mail Id                    | Signature |
|---------|---------------------|----------------------------|----------------|------------------------------|-----------|
| 1       | J. BANDYOPADHYAY    | MS, ERPC                   | 9432326351     | mserpc-power@gov.in          |           |
| 2       | P. MUKHOPADHYAY     | ED, ERLDC                  | 9869438073     | pmukhopadhyay@posoco.in      |           |
| 3       | G. Mitra            | DGM, ERLDC                 | 9831292392     |                              |           |
| 4       | M. K. AGARWAL       | DGM POWERGRID              | 9431815668     | onoidul@posocoindia.com      |           |
| 5       | B. K. Pradhan       | DGM - Powergrid            | 9434742021     | bkpradhan@powergrid.in       |           |
| 6       | S. D. Jha           | Asst. GM - E (Genl)        | 9471004728     | sdjha@ntpc.co.in             |           |
| 7       | D. N. Singh         | NTPC, Kln                  | 9431600191     | dn Singh@ntpc.co.in          |           |
| 8       |                     | Manager (KBUNJ) (EERC)     |                |                              |           |
| 9       |                     |                            |                |                              |           |
| 10      | Jay Kishore Prasad  | Manager (Commt.) NHPC Ltd  | 9419042120     | jkpl087@rediffmail.com       |           |
| 11      | K. N. Nandy         | Dir, O&M                   | 917657169      | dir.oand@drucgreen.com       |           |
| 12      | M. PRASAD           | O&M, DGPC                  | 997517610621   | m.prasad.1900@drucgreen.com  |           |
| 13      | RAKESH KUMAR SOOD   | AGM (I/c) Coml ER-II NTPC  | 9650990816     | rsood@ntpc.co.in             |           |
| 14      | Prashant Chaturvedi | DGM, Commt. cc Delhi       | 9650998653     | pchaturvedi02@ntpc.co.in     |           |
| 15      | A. De.              | AEE, ERPC                  | 9681932406     | alixpanthe@gmail.com         |           |
| 16      | D. K. Bauri         | EE, ERPC                   | 9883617236     | ee.com1.erpc@gov.in          |           |
| 17      | Nashim Ahmed        | Manager ERPC               | 94322357831    | nashim@posoco.in             |           |
| 18      | S. P. Datta         | AKM, ERPC                  | 9433067020     | spdatta@rediffmail.com       |           |
| 19      | B. Sankhal          | ERPC, Consultant           | 9433065724     |                              |           |
| 20      | Shrimohan Jha       | Consultant, ERPC           | 9874738913     | erpc.jha@yahoo.co.in         |           |
| 21      | MANAS DAS           | DY. Mgr., ERLDC            | 9007070925     | manasdas@posoco.in           |           |
| 22      | Vikas Srivastava    | Asst. Manager (E&I) sec.   | 9434910415     | vikas.srivastava@wbse.tel.in |           |
| 23      | ABHJIT CHARRABTY    | Sr. Manager (E&I) WBSE     | 9836699161     | eeptf.wbsecl@gmail.com       |           |

| Sl. No. | Name                | Designation & Organisation | Contact Number | E-mail Id  | Signature   |
|---------|---------------------|----------------------------|----------------|--|---|
| 24      | Preetam Banerji     | JE/WBSEDC                  | 9432140765     | preetant2@gmail.com                              |  |
| 25      | Biswanandan Mishra  | GM OPTCL                   | 9438907371     | ele.birmishra@optcl.co.in                        |  |
| 26      | Biplab Ku Behera    | AGM OPTCL                  | 9438907609     | ele.bkbehera@optcl.co.in                         |  |
| 27      | Shiba Shankar Nayak | Sr. G.M., GRIDCO           | 9437404458     | sgm.pp@gridco.co.in                              |  |
| 28      | Harpriya Behera     | AGM, GRIDCO                | 9438907021     | ele.handyach@gridco.co.in<br>hp.gridco@gmail.com |  |
| 29      |                     |                            |                |  |   |
| 30      |                     |                            |                |  |   |
| 31      |                     |                            |                |  |   |
| 32      |                     |                            |                |  |   |
| 33      |                     |                            |                |  |   |
| 34      |                     |                            |                |  |   |
| 35      |                     |                            |                |  |   |
| 36      |                     |                            |                |  |   |
| 37      |                     |                            |                |  |   |
| 38      |                     |                            |                |  |   |
| 39      |                     |                            |                |  |   |
| 40      |                     |                            |                |  |   |
| 41      |                     |                            |                |  |   |
| 42      |                     |                            |                |  |   |
| 43      |                     |                            |                |  |   |
| 44      |                     |                            |                |  |   |
| 45      |                     |                            |                |  |   |
| 46      |                     |                            |                |  |   |
| 47      |                     |                            |                |  |   |
| 48      |                     |                            |                |  |   |
| 49      |                     |                            |                |  |   |
| 50      |                     |                            |                |  |   |
| 51      |                     |                            |                |  |   |
| 52      |                     |                            |                |  |   |

## Annexure - I

## SUMMARY OF DEVIATION CHARGE RECEIPT AND PAYMENT STATUS

BILL UPTO 13.05.18 (Week -6 of 2018 - 19)

Last Payment Disbursement Date - 01.06.18

Figures in Rs. Lakhs

| CONSTITUENTS          | Receivable         | Received           | Payable            | Paid               | Outstanding  |
|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------|
| WR                    | 24.73225           | 0.00000            | 290416.30639       | 281338.96691       | -9052.60723  |
| SR                    | 114097.33110       | 108563.41562       | 1999.68784         | 2358.48935         | 5892.71700   |
| NER                   | 88372.35147        | 89795.77876        | 12912.32488        | 13579.97506        | -755.77711   |
| NR                    | 48514.39682        | 46893.42117        | 11326.64663        | 10273.47019        | 567.79921    |
| BSPHCL                | 12845.28011        | 12002.70430        | 298.65354          | 0.00000            | 543.92227    |
| JUVNL                 | 12075.36024        | 10395.47072        | 22.38118           | 0.00000            | 1657.50834   |
| DVC                   | 9164.13620         | 8619.00826         | 3582.20458         | 3580.56764         | 543.49100    |
| GRIDCO                | 27989.10743        | 27898.62662        | 619.20859          | 1389.59627         | 860.86849    |
| WBSETCL               | 30744.25863        | 29544.75144        | 19.21540           | 19.22040           | 1199.51219   |
| SIKKIM                | 604.03636          | 0.00000            | 782.21343          | 242.21842          | 64.04135     |
| NTPC                  | 8703.15388         | 8446.72502         | 85.86347           | 83.30815           | 253.87354    |
| NHPC                  | 21.58420           | 0.00000            | 3057.80101         | 2924.78625         | -111.43056   |
| MPL                   | 175.04030          | 156.70698          | 619.08534          | 619.08129          | 18.32927     |
| MTPS STG-II           | 142.65073          | 60.83025           | 0.00000            | 0.00000            | 81.82048     |
| APNRL                 | 348.23837          | 152.42236          | 372.38671          | 132.90648          | -43.66422    |
| CHUZACHEN (GATI)      | 44.02426           | 43.50945           | 418.36607          | 387.89674          | -29.95452    |
| NVVN (IND-BNG)        | 429.16151          | 431.83387          | 286.29180          | 281.93475          | -7.02941     |
| JITPL                 | 718.74280          | 711.97977          | 811.00214          | 802.80868          | -1.43043     |
| GMR                   | 398.59100          | 250.92860          | 1612.54479         | 1565.39602         | 100.51363    |
| IND BARATH            | 112.50429          | 0.00000            | 0.00000            | 0.00000            | 112.50429    |
| TPTCL(DAGACHU)        | 2274.24288         | 2127.20260         | 36.24336           | 36.24336           | 147.04028    |
| JLHEP (DANS ENERGY)   | 702.84132          | 656.56963          | 201.43673          | 201.41313          | 46.24809     |
| BRBCL(NABINAGAR)      | 198.25119          | 216.25254          | 998.83526          | 1005.91648         | -10.92013    |
| NVVN (IND-NEPAL)      | 2778.88795         | 2753.71853         | 406.49690          | 393.53384          | 12.20636     |
| HVDC SASARAM          | 2.33430            | 2.33430            | 132.50774          | 127.24840          | -5.25934     |
| HVDC-ALIPURDUAR       | 0.90856            | 0.90856            | 198.53507          | 190.20318          | -8.33189     |
| TEESTA-III(TUL)       | 1039.16725         | 1039.14725         | 1594.11474         | 1592.82872         | -1.26602     |
| DIKCHU                | 83.05531           | 90.22371           | 703.26113          | 678.90078          | -31.52875    |
| Tashiding (THEP)      | 212.59277          | 125.10718          | 63.17603           | 63.17603           | 87.48559     |
| OPGC                  | 11.12218           | 7.13928            | 0.00000            | 0.00000            | 3.98290      |
| NPGC                  | 7.29253            | 0.00000            | 0.00000            | 0.00000            | 7.29253      |
| Pool Balance          | 0.00000            | 649.72102          | -4425.60403        | 0.02596            | 3775.90897   |
| Addl Deviation charge | 17054.98648        | 30080.42802        | 0.00000            | 0.00000            | -13025.44154 |
| IRE                   | 0.00000            | 0.00000            | -51.15352          | 0.00000            | 51.15352     |
| VAE                   | 0.00000            | 0.00000            | 16672.14570        | 0.00000            | -16672.14570 |
| <b>TOTAL</b>          | <b>32033.08424</b> | <b>18804.54507</b> | <b>31122.43748</b> | <b>16722.39371</b> |              |

|                           |                               |       |         |                    |
|---------------------------|-------------------------------|-------|---------|--------------------|
| Receivable:               | % Realization                 | 58.70 | As on   | 01.06.18           |
| Received                  | Receivable by ER POOL         |       | Payable | Payable by ER POOL |
| "- ve" Payable by ER pool | Received by ER POOL           |       | Paid    | Paid by ER POOL    |
|                           | "+" ve" Receivable by ER pool |       |         |                    |



Annexure-II

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

| Sl No. | Name of Constituent | 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 31.05.18 (in Rs) |
|--------|---------------------|--------------------------------------|--|---|---------------------------------|---|
| 1      | BSPHCL              | 17017374                             | 14268439                               |   |                                 | 2748935                                     |
| 2      | JUVNL               | 15402615                             | 14617761                               |   |                                 | 784853                                      |
| 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  |
| 10     | APNRL               |                                      |  | 57900                                   | 57900                           | 0   |
| 11     | CHUZACHEN           | 8617                                 |  |   |                                 | 8617  |
| 12     | NVVN(IND-BD)        | 765                                  |  |   |                                 | 765   |
| 13     | JITPL               | 38619                                |  |   |                                 | 38619                                       |
| 14     | GMR                 | 56974                                |  |   |                                 | 56974                                       |
| 15     | IND BARATH          | 1030904                              |  |   |                                 | 1030904                                     |
| 16     | TPTCL(DAGACHU)      | 304143                               |  |   |                                 | 304143                                      |
| 17     | JLHEP               | 230359                               |  |   |                                 | 230359                                      |
| 18     | BRBCL               | 5315                                 |  |   |                                 | 5315  |
| 19     | NVVN(IND-NEP)       | 23086                                |  |   |                                 | 23086                                       |
| 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                                      |
| 25     | OPGC                | 0                                    |  |   |                                 | 0   |
| 26     | WR POOL             |                                      |  | 15688104                                | 15688104                        | 0   |
| 27     | SR POOL             | 2099668                              |  |   |                                 | 2099668                                     |
| 28     | NR POOL             | 777950                               | 4197023                                |   |                                 | -3419073                                    |
| 29     | NER POOL            | 71742                                |  |   |                                 | 71742                                       |
|        | <b>Total</b>        | <b>38998004</b>                      | <b>33083223</b>                        | <b>15807647</b>                         | <b>15807647</b>                 | <b>5914781</b>                              |

Annexure - III

**STATUS OF REACTIVE CHARGES**

RECEIVABLE IN ER POOL AS PER PUBLISHED A/C UPTO 13.05.18 (2018 -19)  
AS ON 01.06.18

| <b>CONSTITUENT</b> | <b>AMOUNT RECEIVABLE<br/>IN THE POOL (Rs.)</b> | <b>AMOUNT RECEIVED<br/>IN THE POOL (Rs.)</b> | <b>TOTAL<br/>OUTSTANDING(Rs.)</b> |
|--------------------|--|--|-----------------------------------|
|                    |  |  |                                   |
| <b>BSPHCL</b>      | <b>378537</b>                                  | <b>378537</b>                                | <b>0</b>                          |
|                    |  |  |                                   |
| <b>JSEB</b>        | <b>1137688</b>                                 | <b>1137688</b>                               | <b>0</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>581959944</b>                               | <b>548594340</b>                             | <b>33365604</b>                   |
|                    |  |  |                                   |
| <b>SIKKIM</b>      | <b>623206</b>                                  | <b>325817</b>                                | <b>297389</b>                     |
|                    |  |  |                                   |
| <b>TOTAL</b>       | <b>824388838</b>                               | <b>790725845</b>                             | <b>33662993</b>                   |

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



Annexure - IV

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

**BILL from 02.04.18 to 13.05.18 (upto Week - 6 of 2018 - 19)**

**Last Payment Disbursement Date -01.06.18**

Figures in Rs. Lakhs

| <b>CONSTITUENTS</b>         | <b>Receivable</b> | <b>Received</b> | <b>Payable</b>    | <b>Paid</b>       | <b>Outstanding</b> |
|-----------------------------|-------------------|-----------------|-------------------|-------------------|--------------------|
| <b>FSTPP STG-I &amp; II</b> | 1.06195           | 0.00473         | 414.39629         | 308.75363         | <b>-104.58544</b>  |
| <b>FSTPP STG-III</b>        | 0.34424           | 0.00000         | 417.12401         | 347.50744         | <b>-69.27231</b>   |
| <b>KhSTPP STG-I</b>         | 5.99360           | 0.42077         | 1125.10546        | 967.22156         | <b>-152.31107</b>  |
| <b>KhSTPP STG-II</b>        | 3.87356           | 0.33028         | 2045.12895        | 1659.88156        | <b>-381.70411</b>  |
| <b>TSTPP STG-I</b>          | 1.80566           | 0.00000         | 31.49088          | 26.46583          | <b>-3.21940</b>    |
| <b>BARH STG-II</b>          | 8.59414           | 0.00000         | 556.15172         | 470.22650         | <b>-77.33108</b>   |
| <b>BRBCL (Nabinagar)</b>    | 1.22183           | 0.00000         | 527.66569         | 455.67920         | <b>-70.76467</b>   |
| <b>TOTAL</b>                | <b>22.89497</b>   | <b>0.75578</b>  | <b>5117.06300</b> | <b>4235.73572</b> | <b>-859.18806</b>  |

**As on**

**28.05.18**

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 - V**

**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                             |
|----------|--|--|----------------------|-----------|-------------------------------------|
| <b>1</b> | <b>Opening Balance (upto 31.03.16)</b> | <b>86464.58111</b>                     |                      |           |                                     |
| 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               |
| 5        | Addl. Dev                              | 52.08622                               | 11.04.16             |           | Addl Dev Charge 15-16               |
| 6        | Addl. Dev                              | 107.23773                              | 13.04.16             |           | Addl Dev Charge 15-16               |
| 7        | Addl. Dev                              | 220.15330                              | 19.04.16             |           | Addl Dev Charge 15-16               |
| 8        | Addl. Dev                              | 76.84824                               | 21.04.16             |           | Addl Dev Charge 15-16               |
| 9        | Addl. Dev                              | 20.84026                               | 26.04.16             |           | DSM Interest 2014-15(Paid by APNRL) |
| 10       | Addl. Dev                              | 10.01920                               | 26.04.16             |           | Addl Dev Charge 16-17               |
| 16       | Addl. Dev                              | 432.25696                              | 28.04.16             |           | Addl Dev Charge 16-17               |
| 17       | Addl. Dev                              | 117.08707                              | 02.05.16             |           | Addl Dev Charge 16-17               |
| 18       | Addl. Dev                              | 41.65418                               | 04.05.16             |           | Addl Dev Charge 16-17               |
| 19       | Addl. Dev                              | 114.33049                              | 06.05.16             |           | Addl Dev Charge 15-16 & 16-17       |
| 20       | Deviation Interest                     | 38.50018                               | 06.05.16             |           | Deviation Interest                  |
| 21       | Addl. Dev                              | 35.54178                               | 10.05.16             |           | Addl Dev Charge 16-17               |
| 22       | Addl. Dev                              | 448.87953                              | 31.05.16             |           | Addl Dev Charge 16-17               |
| 23       | Addl. Dev                              | 170.51274                              | 29.06.16             |           | Addl Dev Charge 16-17               |
| 24       | Reactive Charges                       | 530.57497                              | 28.09.16             |           | Reactive Charges_15-16              |
| 25       | Reactive Charges                       | 1000.00000                             | 26.12.16             |           | Reactive Charges_16-17              |
| 26       | Reactive Charges                       | 779.39811                              | 14.02.17             |           | Reactive Charges_16-17              |
| 27       | Reactive Charges                       | 500.00000                              | 29.03.17             |           | Reactive Charges_16-17              |
| 28       | Reactive Charges                       | 203.61904                              | 26.04.17             |           | Reactive Charges_16-17              |
| 29       | Reactive Charges                       | 394.80618                              | 30.05.17             |           | Reactive Charges_16-17              |
| 30       | Reactive Charges                       | 256.53944                              | 28.06.17             |           | Reactive Charges_16-17              |
| 31       | Reactive Energy Charge                 | 248.26904                              | 31.07.17             |           | Reactive Charges_17-18              |
| 32       | Reactive Energy Charge                 | 128.44284                              | 29.08.17             |           | Reactive Charges_17-18              |
| 33       | Reactive Energy Charge                 | 103.22685                              | 26.09.17             |           | Reactive Charges_17-18              |
| 34       | Reactive Energy Charge                 | 249.14078                              | 31.10.17             |           | Reactive Charges_17-18              |
| 35       | Reactive Energy Charge                 | 172.20693                              | 30.11.17             |           | Reactive Charges_17-18              |
| 36       | Reactive Energy Charge                 | 200.00000                              | 15.12.17             |           | Reactive Charges_17-18              |
| 37       | Reactive Energy Charge                 | 100.00000                              | 05.01.18             |           | Reactive Charges_17-18              |
| 38       | Reactive Energy Charge                 | 558.45339                              | 06.02.18             |           | Reactive Charges_17-18              |
| 39       | Reactive Energy Charge                 | 171.95546                              | 06.03.18             |           | Reactive Charges_17-18              |
| 40       | Reactive Energy Charge                 | 129.35497                              | 04.04.18             |           | Reactive Charges_17-18              |
| 41       | Reactive Energy Charge                 | 126.21494                              | 07.05.18             |           | Reactive Charges_17-18              |
|          | <b>Total</b>                           | <b>94361.68571</b>                     |                      |           |                                     |

**Annexure-VII**

|   | 2016-17       |               |               |               | 2017-18      |              |              |              |
|---|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|
| DSM account Reconciliation Status of ER constituents and Inter Regional |               |               |               |               |              |              |              |              |
| Name of The Utility   | Q1 (04.07.16) | Q2 (03.10.16) | Q3 (04.01.17) | Q4 (05.04.17) | Q1(04.07.17) | Q2(09.10.17) | Q3(08.01.18) | Q4(09.04.18) |
| <b>Inter Regional</b>   |               |               |               |               |              |              |              |              |
| WR  | NO            | NO            | YES           | NO            | NO           | NO           | NO           | NO           |
| SR  | YES           | YES           | NO            | YES           | YES          | NO           | NO           | NO           |
| NER   | NO            | NO            | YES           | YES           | YES          | NO           | YES          | NO           |
| NR  | NO            | NO            | NO            | NO            | NO           | NO           | YES          | NO           |
| <b>Intra Regional</b>   |               |               |               |               |              |              |              |              |
| BSPHCL  | YES           | YES           | YES           | YES           | YES          | YES          | YES          | NO           |
| JUVNL   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | NO           |
| DVC   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | NO           |
| GRIDCO  | YES           | YES           | YES           | YES           | YES          | YES          | YES          | YES          |
| WBSETCL   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | YES          |
| SIKKIM  | YES           | YES           | YES           | NO            | NO           | NO           | NO           | NO           |
| NTPC  | YES           | YES           | YES           | YES           | YES          | YES          | YES          | YES          |
| NHPC  | YES           | YES           | YES           | YES           | YES          | YES          | YES          | YES          |
| MPL   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | YES          |
| VEDANTA   | NO            | NO            | NO            | NO            | N/A          | N/A          | N/A          | N/A          |
| APNRL   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | YES          |
| CHUZACHEN(GATI)   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | YES          |
| NVVN(Ind-Bng)   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | YES          |
| NVVN(Ind-Nep)   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | YES          |
| GMR   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | NO           |
| JITPL   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | NO           |
| INBEUL  | NO            | NO            | NO            | NO            | NO           | NO           | NO           | NO           |
| TPTCL (DAGACHU)   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | NO           |
| JLHEP(DANS ENERG  | YES           | YES           | YES           | YES           | YES          | NO           | NO           | NO           |
| BRBCL   | YES           | YES           | YES           | YES           | YES          | YES          | YES          | NO           |
| POWERGRID (ER-I)  | N/A           | N/A           | YES           | YES           | YES          | YES          | YES          | NO           |
| POWERGRID (ER-II)   | N/A           | N/A           | N/A           | N/A           | N/A          | N/A          | YES          | YES          |
| TUL (TEESTA-III)  | N/A           | N/A           | N/A           | YES           | YES          | YES          | NO           | NO           |
| DIKCHU  | N/A           | N/A           | N/A           | N/A           | YES          | NO           | YES          | NO           |
| SHIGA (TASHIDING)   | N/A           | N/A           | N/A           | N/A           | N/A          | N/A          | NO           | NO           |
| OPGC  | N/A           | N/A           | N/A           | N/A           | N/A          | N/A          | N/A          | YES          |

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-VIII

| <b>Reconciliation Between Open Access department of ERLDC and SLDCs, STUs</b> |                            |                                       |                                       |  |                                       |
|---|----------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|
| <b>Sl. No.</b>  | <b>STUs / SLDCs Name</b>   | <b>Quarter-I<br/>(Apr-17-June-17)</b> | <b>Quarter-II<br/>(Jul-17-Sep-17)</b> | <b>Quarter-III<br/>(Oct-17-Dec-17)</b> | <b>Quarter-IV<br/>(Jan-18-Mar-18)</b> |
| 1   | DVC - SLDC                 | YES                                   | YES                                   | YES                                    | <b>NO</b>                             |
| 2   | OPTCL-SLDC and STU         | YES                                   | YES                                   | YES                                    | <b>NO</b>                             |
| 3   | West Bengal - SLDC and STU | YES                                   | <b>NO</b>                             | <b>NO</b>                              | <b>NO</b>                             |

| <b>Reconciliation Between Open Access department of ERLDC and Applicants</b> |   |                                       |                                       |  |                                       |
|--|---|---------------------------------------|---------------------------------------|--|---------------------------------------|
| <b>Sl. No.</b>   | <b>Applicants Name</b>                      | <b>Quarter-I<br/>(Apr-17-June-17)</b> | <b>Quarter-II<br/>(Jul-17-Sep-17)</b> | <b>Quarter-III<br/>(Oct-17-Dec-17)</b> | <b>Quarter-IV<br/>(Jan-18-Mar-18)</b> |
| 1  | Calcutta Electric Supply Company            | YES                                   | YES                                   | YES                                    | Not Applicable                        |
| 3  | GMR Kamalanga Energy Limited                | YES                                   | YES                                   | YES                                    | Not Applicable                        |
| 4  | Jindal India Thermal Power Limited          | YES                                   | YES                                   | YES                                    | YES                                   |
| 5  | Jharkhand State Electricity Board           | YES                                   | YES                                   | YES                                    | <b>NO</b>                             |
| 6  | West Bengal State Distribution Company Ltd. | YES                                   | YES                                   | Not Applicable                         | <b>NO</b>                             |



**Annexure - IX**

**Current Status of Letter of Credit (LC) amount against UI charges for ER constituents**

*Figures in Lacs of Rupees*

| SI 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) | (F)                   | (G)                           |
|       |                         | (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     | BRBCL                   | 21   | 4  | 198.25119  | 3.81252                                   | 4.19378     | Expired on 31.03.2018 | Letter Issued but Not Renewed |
| 5     | IND-BARATH              | 47   | 47   | 107.23938  | 2.06230                                   | 2.26853     | Not Opened            | Not Opened                    |
| 6     | TEESTA-III(TUL)         | 12   | 2  | 1039.16725   | 19.98399                                  | 21.98238    | Not Opened            | Not Opened                    |
| 7     | SNEHA KINETIC(DIKCHU)   | 9  | 7  | 53.96014   | 1.03770                                   | 1.14146     | Not Opened            | Not Opened                    |
| 8     | SHIGA ENERGY(TASHIDING) | 25   | 15   | 148.94874  | 2.86440                                   | 3.15084     | Not Opened            | Not Opened                    |
| 9     | BSPHCL                  | 48   | 48   | 12297.15842  | 236.48382                                 | 260.13220   | 16.11.2018            | Opened for 213.53049 Lac      |
| 10    | MPL                     | 12   | 2  | 148.83104  | 2.86214                                   | 3.14835     | 31.03.2019            | Opened for 3.14835 Lac        |
| 11    | APNRL                   | 18   | 16   | 307.81318  | 5.91948                                   | 6.51143     | 31.05.2018            | Opened for ₹ 10.67046 Lacs    |
| 12    | JITPL                   | 18   | 3  | 656.5622   | 12.62620                                  | 13.88882    | 31.03.2019            | Opened for 13.88882 Lac       |
| 13    | GMR                     | 21   | 10   | 257.62983  | 4.95442                                   | 5.44986     | 18.04.2019            | Opened for 7.62525 Lacs       |
| 14    | TPTCL                   | 49   | 7  | 2092.89162   | 40.24792                                  | 44.27271    | 31.03.2019            | Opened for 112.03686 Lacs     |
| 15    | JLHEP                   | 37   | 24   | 652.25964  | 12.54345                                  | 13.79780    | 24.09.2018            | Opened for 7.18644 Lacs       |
| 16    | NVVN(IND-NEP)           | 36   | 7  | 2742.53984   | 52.74115                                  | 58.01527    | 26.09.2018            | Opened for ₹ 8.69683 Lacs     |

## Annexure-X

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

| S.No | MAKE   | Meter Serial No | LOCATION            |           | S.No               | MAKE  | Meter Serial No | LOCATION         |             |                |
|------|--------|-----------------|---------------------|-----------|--------------------|-------|-----------------|------------------|-------------|----------------|
| 1    | L&T    | NP-7885-A       | LAKHISARAI(PG)      | 68 Meters | 69                 | GENUS | ER-1290-A       | APNRL            | h 68 Meters |                |
| 2    | L&T    | NP-7886-A       |                     |           | 70                 | GENUS | ER-1135-A       | BERHAMPORE(PG)   |             |                |
| 3    | L&T    | NP-7429-A       |                     |           | 71                 | GENUS | ER-1140-A       | BIHARSHARIFF(PG) |             |                |
| 4    | L&T    | NP-7429-A       |                     |           | 72                 | GENUS | ER-1265-A       |                  |             |                |
| 5    | L&T    | NP-7887-A       |                     |           | BINAGURI(PG)       | 73    | GENUS           | ER-1108-A        |             |                |
| 6    | L&T    | NP-7430-A       |                     |           |                    | 74    | GENUS           | ER-1102-A        |             |                |
| 7    | L&T    | NP-7888-A       |                     |           |                    | 75    | GENUS           | ER-1076-A        |             |                |
| 8    | L&T    | NP-7431-A       |                     |           |                    | 76    | GENUS           | ER-1128-A        |             |                |
| 9    | ELSTER | NR-4451-A       | 77                  |           |                    | GENUS | ER-1125-A       | BIRPARA(PG)      |             |                |
| 10   | ELSTER | NR-4452-A       | 78                  |           |                    | GENUS | ER-1106-A       |                  |             |                |
| 11   | ELSTER | NR-3717-A       | 79                  |           |                    | GENUS | ER-1109-A       | DALKHOLA(PG)     |             |                |
| 12   | ELSTER | NR-4622-A       | 80                  |           |                    | GENUS | ER-1110-A       |                  |             |                |
| 13   | ELSTER | NR-4625-A       | ALIPURDUAR(PG)      |           | 81                 | GENUS | ER-1071-A       |                  |             |                |
| 14   | ELSTER | NR-4447-A       |                     |           | 82                 | GENUS | ER-1072-A       |                  |             |                |
| 15   | ELSTER | NR-4446-A       |                     |           | 83                 | GENUS | ER-1166-A       | DARBHANGA(DMTCL) |             |                |
| 16   | ELSTER | NR-3725-A       |                     |           | 84                 | GENUS | ER-1263-A       | GAYA(PG)         |             |                |
| 17   | ELSTER | NR-4617-A       |                     |           | 85                 | GENUS | ER-1170-A       | JAMSHEDPUR(PG)   |             |                |
| 18   | ELSTER | NR-3716-A       |                     |           | 86                 | GENUS | ER-1297-A       |                  |             |                |
| 19   | ELSTER | NR-3718-A       |                     |           | 87                 | GENUS | ER-1215-A       | KHARAGPUR(WB)    |             |                |
| 20   | GENUS  | ER-1104-A       |                     |           | 88                 | GENUS | ER-1043-A       |                  |             |                |
| 21   | GENUS  | ER-1146-A       |                     |           | KISHANGANJ(BSPTCL) | 89    | GENUS           | NR-4615-A        |             | KISHANGANJ(PG) |
| 22   | GENUS  | ER-1005-A       |                     |           |                    | 90    | GENUS           | NR-4434-A        |             |                |
| 23   | GENUS  | ER-1006-A       | 91                  |           |                    | GENUS | ER-1293-A       |                  |             |                |
| 24   | GENUS  | ER-1002-A       | 92                  |           |                    | GENUS | ER-1296-A       |                  |             |                |
| 25   | GENUS  | ER-1004-A       | 93                  |           |                    | GENUS | ER-1159-A       |                  |             |                |
| 26   | ELSTER | ER-1295-A       | 94                  |           |                    | GENUS | ER-1154-A       | MALDA(PG)        |             |                |
| 27   | GENUS  | ER-1158-A       | 95                  |           |                    | GENUS | ER-1143-A       |                  |             |                |
| 28   | GENUS  | ER-1156-A       | NPGC(BSPTCL)        |           |                    | 96    | GENUS           | ER-1150-A        |             | MEJIA(DVC)     |
| 29   | GENUS  | ER-1157-A       |                     |           | 97                 | GENUS | ER-1008-A       |                  |             |                |
| 30   | GENUS  | ER-1287-A       | MIRAMUNDALI(GRIDCO) |           | 98                 | GENUS | ER-1031-A       |                  |             |                |
| 31   | GENUS  | ER-1282-A       |                     |           | 99                 | GENUS | ER-1055-A       |                  |             |                |
| 32   | GENUS  | ER-1052-A       |                     |           | 100                | GENUS | ER-1054-A       |                  |             |                |

Annexure-X (Cont...)

|    |        |           |                    |                       |            |           |           |                   |                            |
|----|--------|-----------|--------------------|-----------------------|------------|-----------|-----------|-------------------|----------------------------|
| 33 | GENUS  | ER-1063-A | OPGC               | 16 New Locations with | 101        | GENUS     | ER-1165-A | MOTIHARI(DMTCL)   | 25 Existing Locations with |
| 34 | GENUS  | ER-1027-A |                    |                       | 102        | GENUS     | ER-1167-A |                   |                            |
| 35 | GENUS  | ER-1112-A |                    |                       | 103        | GENUS     | ER-1122-A | MPL               |                            |
| 36 | GENUS  | ER-1026-A |                    |                       | 104        | GENUS     | ER-1123-A |                   |                            |
| 37 | GENUS  | ER-1030-A |                    |                       | 105        | GENUS     | ER-1124-A |                   |                            |
| 38 | GENUS  | ER-1053-A |                    |                       | 106        | GENUS     | ER-1129-A |                   |                            |
| 39 | GENUS  | ER-1066-A |                    |                       | 107        | GENUS     | ER-1226-A | MUZAFFARPUR(PG)   |                            |
| 40 | GENUS  | ER-1068-A |                    |                       | 108        | GENUS     | ER-1299-A | NABINAGAR(BRBCL)  |                            |
| 41 | GENUS  | ER-1060-A |                    |                       | 109        | GENUS     | ER-1292-A |                   |                            |
| 42 | ELSTER | NR-3714-A |                    |                       | TEESTA-III | 110       | GENUS     | ER-1294-A         |                            |
| 43 | ELSTER | NR-3715-A | 111                |                       |            | ELSTER    | NR-4620-A |                   |                            |
| 44 | ELSTER | NR-4450-A | 112                |                       |            | ELSTER    | NR-4621-A | PANDIABILI(PG)    |                            |
| 45 | ELSTER | NR-3720-A | 113                |                       |            | GENUS     | ER-1099-A |                   |                            |
| 46 | ELSTER | NR-4623-A | 114                |                       |            | L&T       | NP-8052-A | PURNEA(PG)        |                            |
| 47 | ELSTER | NR-3719-A | 115                |                       |            | GENUS     | ER-1175-A |                   |                            |
| 48 | ELSTER | NR-4456-A | 116                |                       |            | GENUS     | ER-1176-A | RAMCHANDARPUR(PG) |                            |
| 49 | ELSTER | NR-4618-A | 117                |                       |            | GENUS     | ER-1298-A |                   |                            |
| 50 | ELSTER | NR-4454-A | 118                |                       |            | GENUS     | ER-1020-A | RENGALI(PG)       |                            |
| 51 | ELSTER | NR-4453-A | 119                |                       |            | GENUS     | ER-1028-A | ROURKELA(PG)      |                            |
| 52 | GENUS  | ER-1250-A | 120                |                       | GENUS      | ER-1029-A |           |                   |                            |
| 53 | GENUS  | ER-1245-A | MOTIHARI(BSPTCL)   |                       | 121        | GENUS     | ER-1012-A | SUNDERGARH(PG)    |                            |
| 54 | GENUS  | ER-1286-A | MOTIPUR(BSPTCL)    |                       | 122        | GENUS     | ER-1093-A |                   |                            |
| 55 | GENUS  | ER-1288-A | ATRI(GRIDCO)       |                       | 123        | GENUS     | ER-1100-A |                   |                            |
| 56 | GENUS  | ER-1111-A |                    |                       | 124        | GENUS     | ER-1019-A |                   |                            |
| 57 | GENUS  | ER-1007-A | RAXAUL(BSPTCL)     |                       | 125        | GENUS     | ER-1118-A |                   |                            |
| 58 | GENUS  | ER-1248-A | SAMANGARA(GRIDCO)  |                       | 126        | GENUS     | ER-1022-A |                   |                            |
| 59 | GENUS  | ER-1249-A |                    |                       | 127        | GENUS     | ER-1021-A |                   |                            |
| 60 | GENUS  | ER-1113-A | SAMASTIPUR(BSPTCL) |                       | 128        | GENUS     | ER-1023-A |                   |                            |
| 61 | GENUS  | ER-1073-A | EMSS(CESC)         |                       | 129        | GENUS     | ER-1117-A |                   |                            |
| 62 | GENUS  | ER-1223-A |                    |                       | 130        | GENUS     | ER-1119-A |                   |                            |
| 63 | GENUS  | ER-1121-A | BETIAH(BSPTCL)     |                       | 131        | GENUS     | ER-1062-A |                   |                            |
| 64 | GENUS  | ER-1126-A |                    |                       | 132        | GENUS     | ER-1067-A |                   |                            |
| 65 | GENUS  | ER-1227-A | BHOGRAI(GRIDCO)    |                       | 133        | GENUS     | ER-1061-A |                   |                            |
| 66 | GENUS  | ER-1173-A | JALESWAR(GRIDCO)   |                       | 134        | GENUS     | ER-1070-A |                   |                            |
| 67 | GENUS  | ER-1116-A |                    |                       | 135        | GENUS     | ER-1065-A |                   |                            |
| 68 | GENUS  | ER-1114-A |                    |                       | 136        | GENUS     | ER-1064-A |                   |                            |

**List of drifted meters to be replaced in Phase-III**

| <b>SNO</b> | <b>LOCATION</b>  | <b>METER SNO</b> | <b>FEEDER NAME</b>                       | <b>Region</b>  |
|------------|------------------|------------------|--|----------------|
| 1          | JEERAT(WB)       | NP-6445-A        | 400 KV JEERAT (WBSETCL) - BERHAMPURE(PG) | ER-II          |
| 2          | JEERAT(WB)       | NP-6446-A        | 400 KV JEERAT (WBSETCL) - SUBHASGRAM     | ER-II          |
| 3          | RANCHI(PG)       | NP-7853-A        | 400 KV RAGHUNATHPUR 1                    | ER-I           |
| 4          | RANCHI(PG)       | NP-7871-A        | 400 KV RAGHUNATHPUR 2                    | ER-I           |
| 5          | ALIPURDUAR(PG)   | NR-3716-A        | 400 KV POLE-3 MAIN BAY-AGRA(NR)          | ER-II          |
| 6          | ALIPURDUAR(PG)   | NR-3718-A        | 400 KV POLE-3 TIE BAY AGRA(NR)           | ER-II          |
| 7          | NEW MELLI(PG)    | NR-4620-A        | 220 KV JORETHANG(JLHEP)-1                | ER-II          |
| 8          | NEW MELLI(PG)    | NR-4621-A        | 220 KV JORETHANG(JLHEP)-2                | ER-II          |
| 9          | TEESTA-III       | NR-3714-A        | 400 KV SIDE OF TEESTA-III HEP GT-1       | ER-II          |
| 10         | TEESTA-III       | NR-3715-A        | 400 KV SIDE OF TEESTA-III HEP GT-2       | ER-II          |
| 11         | TEESTA-III       | NR-4450-A        | 400 KV SIDE OF TEESTA-III HEP GT-3       | ER-II          |
| 12         | TEESTA-III       | NR-3720-A        | 400 KV SIDE OF TEESTA-III HEP GT-4       | ER-II          |
| 13         | TEESTA-III       | NR-4623-A        | 400 KV SIDE OF TEESTA-III HEP GT-5       | ER-II          |
| 14         | TEESTA-III       | NR-3719-A        | 400 KV SIDE OF TEESTA-III HEP GT-6       | ER-II          |
| 15         | TEESTA-III       | NR-4456-A        | 400 KV TEESTA-III - DICKCHU (MAIN)       | ER-II          |
| 16         | TEESTA-III       | NR-4618-A        | 400 KV TEESTA-III - DICKCHU (CHECK)      | ER-II          |
| 17         | TEESTA-III       | NR-4454-A        | 400 KV TEESTA-III - RANGPO (MAIN)        | ER-II          |
| 18         | TEESTA-III       | NR-4453-A        | 400 KV TEESTA-III - RANGPO (CHECK)       | ER-II          |
| 19         | JINDAL (GRIDCO)  | NP-6502-A        | 220KV JAMSHEDPUR (DVC)                   | ODHISA PROJECT |
| 20         | JAMSHEDPUR (DVC) | NP-6010-B        | 220 KV JINDAL                            | ER-I           |
| 21         | GANGTOK(PG)      | NP-6026-A        | 132KV CHUZACHEN(GATI)                    | ER-II          |
| 22         | RANGPO(PG)       | NP-7958-A        | 132 KV CHUZACHEN (GATI)                  | ER-II          |

## Location details of Elster Meter in Eastern Region

### Annexure-XII

| Sl No | Meter No  | Location   | Region |
|-------|-----------|------------|--------|
| 1     | NR-3714-A | TEESTA-III | ER-II  |
| 2     | NR-3715-A | TEESTA-III | ER-II  |
| 3     | NR-4450-A | TEESTA-III | ER-II  |
| 4     | NR-3720-A | TEESTA-III | ER-II  |
| 5     | NR-4623-A | TEESTA-III | ER-II  |
| 6     | NR-3719-A | TEESTA-III | ER-II  |
| 7     | NR-4456-A | TEESTA-III | ER-II  |
| 8     | NR-4618-A | TEESTA-III | ER-II  |
| 9     | NR-4454-A | TEESTA-III | ER-II  |
| 10    | NR-4453-A | TEESTA-III | ER-II  |
| 11    | NR-4451-A | ALIPURDUAR | ER-II  |
| 12    | NR-4452-A | ALIPURDUAR | ER-II  |
| 13    | NR-3717-A | ALIPURDUAR | ER-II  |
| 14    | NR-4622-A | ALIPURDUAR | ER-II  |
| 15    | NR-4625-A | ALIPURDUAR | ER-II  |
| 16    | NR-4447-A | ALIPURDUAR | ER-II  |
| 17    | NR-4446-A | ALIPURDUAR | ER-II  |
| 18    | NR-4435-A | ALIPURDUAR | ER-II  |
| 19    | NR-4619-A | ALIPURDUAR | ER-II  |
| 20    | NR-3725-A | ALIPURDUAR | ER-II  |
| 21    | NR-4617-A | ALIPURDUAR | ER-II  |
| 22    | NR-3718-A | ALIPURDUAR | ER-II  |
| 23    | NR-4620-A | NEW MELLI  | ER-II  |
| 24    | NR-4621-A | NEW MELLI  | ER-II  |
| 25    | NR-4435-A | RANCHI NEW | ER-I   |
| 26    | NR-4619-A | RANCHI NEW | ER-I   |
| 27    | NR-4615-A | KISHENGANJ | ER-I   |
| 28    | NR-4434-A | KISHENGANJ | ER-I   |

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

|          |  |             |   |   |   | <b>Annexure-XIII</b>                  |
|----------|--|-------------|---|---|---|---------------------------------------|
| <b>A</b> | <b>Associated Transmission System for Nabinagar-II TPS(3x660MW)</b>  | <b>DOCO</b> | <b>Approved Cost</b>                              | <b>Standing Committee Reference</b>                             | <b>RPC Meeting Reference</b>  | <b>Sharing of Charges</b>             |
| 01       | 400 kV D/C(Quad) Nabinagar II – Gaya Transmission line along with 2nos associated bays at Gaya substations   | 12/05/18    | Rs.790.13 Cr.( including IDC of Rs. 50.00 Cr.).   | SCM meeting of ER on 20.09.10.                                  | 15th ERPC meeting on 28.09.10 & 16th ERPC meeting 18.12.10.                                 | # Mention in Note                     |
| <b>B</b> | <b>Eastern Region Strengthening Scheme-XV.</b>   | <b>DOCO</b> | <b>Approved Cost</b>                              | <b>Standing Committee Reference</b>                             | <b>RPC Meeting Reference</b>  | <b>Sharing of Charges</b>             |
| 01       | Coverision of 50 MVAR fixed line reactor at Subhasgram end of Sagardighi-Subhasgram 400kV S/C line to switchable line reactor  | 08/03/18    | Rs.454.11 Cr.( including IDC of Rs.26.73 Cr.).    | 17th SCM meeting of ER on 25.05.15                              | 30th ERPC Meeting on 26.06.15   | As per New Sharing methodology of PoC |
| 02       | 1 no 125 MVAR Bus Reactor and 1 no 400kV line bay at Baharampur  | 30/03/18    |   |   |   |                                       |
| <b>C</b> | <b>Eastern Region Strengthening Scheme-IX</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 1x125 MVAR Bus Reactor by replacing existing 1x50 MVAR Bus Reactor at 400kV Rourkela Substation.   | 07/01/18    | Rs.196.58 Cr.( including IDC of Rs.10.65 Cr.).    | SCM meeting of ER on 05.01.13.                                  | 22nd ERPC Meeting on 25.08.12 & 24th ERPC meeting on 27.04.13                               | As per New Sharing methodology of PoC |
| <b>D</b> | <b>Eastern Region Strengthening Scheme-XII</b>   | <b>DOCO</b> | <b>Approved Cost</b>                              | <b>Standing Committee Reference</b>                             | <b>RPC Meeting Reference</b>  | <b>Sharing of Charges</b>             |
| 01       | Spare 1 no unit of 765Kv, 110 MVAR Single Phase Reactor to be stationed at Sasaram   | 29/03/18    | Rs.522.29 Cr.( including IDC of Rs.33.24 Cr.).    | 2nd 2013 SCM meeting of ER on 27.08.13.                         | 25th ERPC meeting on 21.09.13   | As per New Sharing methodology of PoC |
| 02       | Modification of 132kV Bus arrangement at 220/132kV Purnea substation with GIS bays   | 12/03/18    |   |   |   |                                       |
| 03       | Installation of 3rd 500 MVA, 400/220kV ICT at Patna (POWERGRID) substation along- with associated bays   | 14/02/18    |   |   |   |                                       |
| <b>E</b> | <b>Eastern Region Strengthening Scheme-III</b>   | <b>DOCO</b> | <b>Approved Cost</b>                              | <b>Standing Committee Reference</b>                             | <b>RPC Meeting Reference</b>  | <b>Sharing of Charges</b>             |
| 01       | 400 kV D/C Sasaram–Daltonganj transmission line along-with associated bays at Sasaram & Daltonganj substation.   | 31/03/18    | Rs. 1512.08 Cr. (including IDC of Rs. 96.92 Cr.). | 08/11/2008 at Bhubaneswar                                       | Special(9th ) ERPC meeting on 30/12/2008 & 10th ERPC meeting on 11/04/2009 at Port Blair    | As per New Sharing methodology of PoC |
| 02       | 400/220 kV,315 MVA ICT I at Daltonganj substation and associated bays  | 31/03/18    |   |   |   |                                       |
| 03       | 400kV,80 MVAR Bus Reactor at Daltonganj substation and associated bay  | 31/03/18    |   |   |   |                                       |
| <b>F</b> | <b>Eastern Region Strengthening Scheme-XVII (Part A)</b>   | <b>DOCO</b> | <b>Approved Cost</b>                              | <b>Standing Committee Reference</b>                             | <b>RPC Meeting Reference</b>  | <b>Sharing of Charges</b>             |
| 01       | 220/132 kV,160 MVA ICT I at Daltonganj substation and associated bays  | 31/03/18    | Rs. 34.90 Cr. (including IDC of Rs. 1.39 Cr.).    | 17th SCM of ER held at NRPC New Delhi on 25th May'15            | 30th ERPC meeting on 20/06/2015 at Shimla & 31st ERPC meeting on 14/11/2015 at Bhubaneshwar | As per New Sharing methodology of PoC |
| 02       | 220/132 kV,160 MVA ICT II at Daltonganj substation and associated bays   | 31/03/18    |   |   |   |                                       |
| 03       | 2 nos 132 kV line bays at Daltonganj substation for Daltonganj(PG)-Daltonganj(JUSNL) line  | 31/03/18    |   |   |   |                                       |
| <b>G</b> | <b>POWERGRID works associated with common transmission system for Phase II Generation Projects in Odisha</b>   | <b>DOCO</b> | <b>Approved Cost</b>                              | <b>Standing Committee Reference</b>                             | <b>RPC Meeting Reference</b>  | <b>Sharing of Charges</b>             |
| 01       | LILO of both Circuit of 400kV D/C (2nd line) Rourkela-Raigarh at Jharsuguda(Sundargarh) Substation and 4 nos 400kV GIS line bays for termination of LILLO of both circuits of 400kV (2nd line) Rourkela-Raigarh at Jharsuguda(Sundargarh) Substation | 07/01/18    | Rs. 844.64 Cr. (including IDC of Rs. 50.27 Cr.).  | 16th SCM meeting of ER on 02.05.14 & 17th SCM of ER on 25.05.15 | 24th ERPC meeting on 27.04.13 & 30th ERPC meeting on 20.06.15                               | As per New Sharing methodology of PoC |
| <b>H</b> | <b>SCADA/EMS systems at SLDCs of ER</b>  | <b>DOCO</b> | <b>Approved Cost</b>                              | <b>Standing Committee Reference</b>                             | <b>RPC Meeting Reference</b>  | <b>Sharing of Charges</b>             |
| 01       | (b) Integration of RTUs to Main Control Centre & RTU for BSTPCL - 10 nos   | 19/09/2017  |   |   |   |                                       |

# Note : 6th Amendment to CERC (Connectivity and LTA/MTOA in ISTS & Related matters) Regulation 2009 was notified on 17.02.17 As per the amendment of Clause (8) of Regulation 8 "The transmission charges for the dedicated transmission line shall be payable by Generator from date of COD of the dedicated line till operationalisation of LTA of the generating station of the generating company". Hence Nabinagar Power Generating Company Private Limited(NPGCPL) will bear the transmission charges of the line till operationalisation of LTA. NPGCPL has communicated vide letter dated 15.05.18 to POWERGRID.