

EASTERN REGIONAL POWER COMMITTEE
14 GOLF CLUB ROAD, TOLLYGUNGE, KOLKATA-700 033

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No-ERPC/COM-I/GEN/2016/H 4158 - H 4194

dated-16.02.2016

FAX Msg No:

To: As per List

Subject: Minutes of 31st Commercial Sub Committee Meeting of ERPC-Reg

Sir,
Minutes of the 31st Commercial Sub Committee Meeting of ERPC held on 08.02.2016 have been issued with the approval of Member Secretary and available for download at www.erpc.gov.in.

Encl-as above

Yours faithfully,

Subhro Paul
16/2/16
(Subhro Paul)

Executive Engineer (Comml)

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- 32) The General Manager (F&A), WBSETCL, Bidyut Bhavan, Block DJ, Sector-II, Bidhannagar,Kolkata-700091 (033-23591952)
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MINUTES OF THE 31ST COMMERCIAL SUB COMMITTEE MEETING OF ERPC

DATE: 08.02.2016

TIME: 1100 HRS

VENUE: ERPC CONFERENCE HALL, KOLKATA

EASTERN REGIONAL POWER COMMITTEE

14 GOLF CLUB ROAD, TOLLYGUNGE, KOLKATA-700 033

Phone: 033-24235199/24235040 # Fax: 033-24171358/24221802 # Web: www.erpc.gov.in

MINUTES OF THE 30th COMMERCIAL SUB-COMMITTEE MEETING OF ERPC SCHEDULED TO BE HELD ON 08.02.2016 (MONDAY) AT 1100 HRS. AT ERPC, KOLKATA

ITEM NO. 1 Confirmation of the minutes of the 30th Commercial Sub-Committee meeting held on 16.09.2015

The minutes of the 30th Commercial Committee meeting were intimated vide ERPC letter No. ERPC/COM-I/GEN/2014/H1512-H1548 dated 22.09.2015.

No request for amendment has been received by ERPC Secretariat.

Members may confirm the minutes of the 30th Commercial Sub Committee Meeting.

Deliberation in the meeting

The minutes of 30th Commercial Sub Committee meeting was confirmed.

PART A: FOLLOW UP ITEMS / REGULAR ITEMS

ITEM NO. 2 Payment/Receipt Status from various pool accounts in ER

a) Payment of Deviation Charges -- present status

As submitted by ERLDC, the status of Deviation Charge payment as on 01.02.2016 is enclosed at **Annexure – I**.

The current principal outstanding Deviation Charge of BSPHCL & JUVNL is **Rs. 13.26 Cr & Rs. 9.42 Cr** respectively considering bill up to 10.01.2016. ERLDC have en-cashed the LC of M/s APNRL on 09.12.15. The en-cashed amount from LC has been utilized for payment of outstanding Deviation Charge to other recipient's constituents. Thus Principal amount payable by APNRL is **Rs. 47.35 Lac.** (bill up to 10.01.16).

ERLDC may update the status.

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

Deliberation in the meeting

ERLDC added that the interest outstanding against BSPHCL was around Rs. 90 Lakhs and against JUVNL was around Rs. 50 Lakhs. It was also informed that APNRL has recouped their LC and the outstanding would be encashed from the LC.

ERLDC requested BSPHCL not to wait for receivables for adjustment and instead pay their outstanding dues regularly.

b) Reactive Energy Charges – present status.

As furnished by ERLDC, the updated position of Receipt/Payment of Reactive Energy Charges in the pool as on 01.02.2016 (considering bill up to 02.01.2015) is indicated in **Annexure – II**. The total outstanding receivable on account of Reactive charges from WBSETCL/WBSEDCL and GRIDCO is **Rs. 2.68 Cr** and **0.72 Cr** respectively.

ERLDC may please update.

WBSETCL/WBSEDCL and GRIDCO may confirm the program for payment of outstanding dues.

Deliberation in the meeting

WBSEDCL representative informed that bills for Reactive energy charges, etc should be raised on WBSETCL/SLDC only. WBSETCL in turn would distribute the bills among the Discoms. However, WBSEDCL was requested to deliberate with WBSETCL/SLDC for release of current outstanding.

GRIDCO representative informed that the outstanding bill of 0.72 Cr is under process and would be released shortly.

Workshop & Expenditure details

In accordance with the decision of TCC and ERPC, ERPC & ERLDC in coordination with GRIDCO organized two day workshop on 27.08.2015 and 28.08.2015 at Bhubaneswar focusing the power system operation and market operation including recent developments and best practices.

An expenditure of **Rs. 6.11681 Lacs** incurred for arranging the above workshop have been reimbursed to GRIDCO Ltd from Reactive account on 10.12.2015

Workshop at Talcher STPP on generator protection and HVDC protection was held from 23.11.2015 to 27.11.2015. Expenditure details are awaited from NTPC side.

Members may recommend to TCC for post facto approval of the expenditure for Bhubaneswar workshop. NTPC is requested to submit the expenditure details.

Deliberation in the meeting

It was informed that total expenditure for Talcher Workshop is Rs. 2, 62,404 including faculty payments which was incurred by ERPC Secretariat.

Members recommended to TCC for post facto approval for reimbursement of expenditure incurred for Bhubaneswar workshop to GRIDCO and expenditure incurred for Talcher workshop to NTPC & the expenditure incurred by ERPC secretariat towards faculty payments.

c) Congestion Account - Present Status

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

Members may please note.

Deliberation in the meeting

Members noted.

d) Status of PSDF

As informed by ERLDC, an amount **Rs. 8.0 Cr** from Reactive account & **Rs. 32.90 Cr** from Deviation Pool account have been transferred to PSDF after 30th Commercial sub-committee meeting held on 16.09.15. With this the total amount of **Rs. 847.25 Cr.** has been transferred to PSDF so far. The break up details of fund transferred to PSDF is enclosed in **Annexure IV.**

Members may please note.

Deliberation in the meeting

Members noted.

e) Reconciliation of Deviation Accounts

ERLDC have informed that at the end of 3rd quarter of 2015-16, the reconciliation statement (Period: 01.10.15 to 31.12.15) has been issued by ERLDC on 05.01.16 and statements had been sent to the respective constituents and uploaded the same at ERLDC website (www.erldc.org) on 05.01.2016. The constituents were requested to verify /check the same & comments if any on the same were to be reported to ERLDC by 20.01.2016. The status of reconciliation is enclosed in **Annexure-V.**

BSPHCL, JUVNL, DVC, GRIDCO, SIKKIM, GMR and Ind Barath have not signed reconciliation statement for 3rd Qtr of 2015-16. Further BSPHCL, JUVNL, SIKKIM & Ind Barath have not signed reconciliation statement for more than last 3 quarters.

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

Members may confirm/sign the reconciliation statement.

Deliberation in the meeting

ERLDC informed that DVC had reconciled for their entire period.

BSPHCL representative informed that finance/revenue personnel were available in the meeting and they will sit together post meeting and get the statements reconciled.

GMR informed that they have already sent 2 days ago.

GRIDCO informed that they were processing and the statements would be reconciled shortly.

JUVNL and Sikkim representative were not present.

Member Secretary would write to JUVNL, Sikkim and IBEUL for reconciliation of the statements.

f) Reconciliation of Reactive Account

As informed by ERLDC, at the end of 3rd quarter of 2015-16, the reconciliation statement (Period: 01.10.15 to 31.12.15) has been issued by ERLDC on 05.01.16 and statements had been sent to the respective constituents. The constituents were

requested to verify /check the same & comments if any on the same to be reported to ERLDC by 20.01.2016.

WBSETCL & GRIDCO have not reconciled the Reactive account. If the confirmation is not received within 2 weeks from the date of issuance of the letters the statements issued by ERLDC have been deemed to be reconciled.

Members confirm/may sign the reconciliation statement.

Deliberation in the meeting

WBSEDCL representative informed that they will discuss the issue with WBSETCL. ERLDC was requested once again to provide a copy of the statement to WBSETCL for reconciliation. ERLDC informed that the information was being regularly uploaded on their website, however, a copy would be sent to WBSETCL.

GRIDCO informed that the issue was under consideration and statements would be reconciled soon.

ITEM NO. 3 Short Term Open Access payment/receipts reconciliation

i) For STOA payments made to SLDC / STU :

As informed by ERLDC, the reconciliation statements of STOA payments for the period Apr'15 to Dec'15 have been send to the DVC, OPTCL and WBSETCL for checking at their end and confirmation.

OPTCL has confirmed for entire period except for the month of Dec'15. WBSETCL is yet to confirm for the period of Oct'15 to Dec'15. 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 confirm/sign the reconciliation statement.

Deliberation in the meeting

GRIDCO informed that the issue was under consideration and statements would be reconciled soon.

WBSEDCL representative informed that they will discuss the issue with WBSETCL. ERLDC was requested to once again provide a copy of the statement to WBSETCL for reconciliation.

ii) For payments received from STOA applicants:

ERLDC have intimated that the payment receipt statements of STOA for the period of Dec'12 to Mar'13, FY-2013-14 , FY-2014-15 and Apr'15-Dec'15 have been send to the BSEB, JSEB, JITPL, GRIDCO, WBSEDCL, SEL , TSL, GMRKEL for checking at their end and confirmation.

- Signed reconciliation statements have been received from BSEB for the period of Dec'12 to Mar'13 only.
- JSEB has not confirmed for the entire period of FY-2014-15 and Jul-15 to Sep-15.

- JITPL has confirmed and signed reconciliation statements for the entire period except Jul-15 to Sep-15.
- GMRKEL is yet to confirm for the period of Apr-15 to Jun--15 only.
- GRIDCO has confirmed and signed reconciliation statements for the entire period except Sep-14.
- WBSEDCL has confirmed and signed reconciliation statements for Nov'13, Dec'13, Jan'14, May-14 and Oct-14 only.

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-VI**

Members may confirm/sign the reconciliation statement.

Deliberation in the meeting

BSPHCL finance/revenue personnel were present in the meeting. After the meeting they would sit together with ERLDC and get the statements reconciled.

JUSNL/JUVNL, JITPL representative was not present in the meeting.

GMREKL has confirmed for the entire period.

GRIDCO requested ERLDC to send a copy of the statement and the same would be reconciled at the earliest. ERLDC was also requested to give a copy of pending statements to WBSEDCL for early reconciliation.

ITEM NO. 4 State Transmission Utility Charges and Losses applicable for STOA for FY 2015-16

As available with ERLDC the STU charges and losses to be considered for STOA for FY 2015-16 is as follows:

| Name of STU | Intra-State Transmission Charges | TRANSMISSION LOSS (For Embedded entities) |
|--------------------|---|--|
| WBSETCL | * | 3.10% |
| DVC | Rs. 80.0 / MWh | 4.30% |
| OPTCL | Rs. 62.5 / MWh | 3.75% |
| JSEB | * | # |
| BSEB | * | # |
| SIKKIM | * | # |

N.B:

* 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.

Members may update

Deliberation in the meeting

JUSNL, Sikkim representative were not present.

BSPHCL submitted that transmission charges for their system may be taken as Rs 421/MW/day (provisional) and Transmission Loss would be 5.1%

It was clarified that the short term charges approved by the respective commissions in Rs/MWH would only be considered by ERLDC. For all other cases, Rs 80/MWH would be considered.

ERLDC informed that for drawl of power from RGPPL by Railway in Jharkhand, JUSNL has provided a loss figure. ERLDC was requested to update the table with the figure provided by JUSNL.

ITEM NO. 5 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 ERDC is not getting details of payment made in ER pool account. It is therefore requested to all the ER pool member, that details of payment may kindly be submitted to ERLDC in the following email account in the format given below :

Email account: erldc@hotmail.com

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

ERLDC may elaborate.

Members may cooperate.

Deliberation in the meeting

ERLDC explained that information of payments made by the constituents to the ER pool was required for easier and correct identification of the payee. This would result in faster checking and reconciliation of payments.

ERLDC also informed that for sums disbursed to the constituents, ERLDC is regularly uploading the details on their website.

Members agreed to send the payment details by email on making payment/transfer to ER pool accounts.

ITEM NO.6 Opening of LC by ER constituents for Deviation Charges Payments

As submitted by ERLDC, the details of LC amount required to be opened in 2015-16 as per Clause 10 (4) of CERC Deviation Settlement Mechanism and related matters Regulations, 2014 by ER constituents is given in **Annexure - VII**.

Letters to this effect were issued by ERLDC to the defaulting entities viz, JUVNL, DVC, JITPL, and Ind Barath. Rest of the constituents which were required to open/recoup the LC, they have opened/recoup the LC.

ERLDC may update.

JUVNL, DVC, JITPL, and Ind Barath may please intimate the latest status.

Deliberation in the meeting

JUVNL/JITPL representatives were not present. DVC informed that they have opened LC for 1.55 Cr and they would get the details sent by their banker to ERLDC banker as required by ERLDC.

ITEM NO.7 Updation of CT/PT Ratio

The meter details along with the CT/PT ratio has been uploaded at ERLDC website (www.erldc.org). Constituents are requested to verify their respective CT/PT ratio and point out to ERLDC/ERPC in case of any discrepancy.

Members may please note.

Deliberation in the meeting

Members noted.

ITEM NO.8 Meter readings related issues

A. Erroneous Data/meter reading

i. Lalmatia(JUVNL)

SEM data received from Lalmatia(JUVNL) of 220 KV Lalmatia(JUVNL) – Farakka (NTPC) line showing erroneous(3/4th recording as compared to Farakka end) since 19.01.16. During Joint inspection by PGCIL and JUSNL on 19.01.16, they confirmed that Y-Ph CT Current was not coming in the meter and they rectified the same. After the rectification, reading of the above meter is again showing 3/4th as compared to Farakka end.

ERLDC may update the status, if any.

Powergrid/JUSNL may respond.

Deliberation in the meeting

Powergrid informed that their personnel had checked and there is some CT issue and the meter was not defective. Powergrid was requested to check CT ratio/incorrect CT core selection and inform the reason of incorrect reading.

Powergrid informed that although the meter issues were responsibility of Powergrid, CT/PT is to be checked/maintained by the concerned constituent. However, Powergrid is providing help as and when necessary.

ii. Joda (OPTCL)

SEM data received from Joda(OPTCL) end of 220 KV Joda(OPTCL) – Ramchandarpur(JUVNL) line is showing erroneous (15-20% Less recording as compared to Ramchandarpur end) since 14.01.16. Matter was intimated to official of Joda OPTCL. Accounting of GRIDCO and JUVNL is done considering Ramchandarpur end data w.e.f 14.01.16 and is totally dependent on Ramchandarpur SEM data.

ERLDC may update the status, if any.

OPTCL/JUSNL may respond.

Deliberation in the meeting

Powergrid representatives informed that they would intimate the issue to their Odisha projects and it will be resolved soon.

Powergrid also requested ERLDC to intimate their asset management division on email immediately on noting any discrepancy in meter data. This will enable them to coordinate with the site personnel to get the issues resolved faster.

B. By passing of SEMs of Tie Lines

i. Sabour at BSPTCL

SEM is installed at both ends of 132 KV Sabour-Banka (PG) Line. It was gathered from Sabour that the line is feeding load to Sultanganj (BSPTCL) regularly through Transfer Bus of Sabour by passing the SEM at Sabour resulting in non-recording of energy by SEM at Sabour.

Bypassing of SEM installed at Tie line is violation of CEA metering regulation 2006 and the same is needed to be restored. The matter was also discussed in 31st TCC/ERPC meeting held on 13th and 14th November 2015 wherein BSPHCL informed that the issue has been resolved. However as per data received at ERLDC, the problem still persists.

BSPTCL/BSPHCL may respond.

Deliberation in the meeting

BSPHCL representative informed that they have stopped the practice since long back. ERLDC informed that as per data received at ERLDC still bypassing of SEM was taking place.

BSPHCL agreed to get the issue checked at their end and take necessary action at the earliest.

ii. Kishanganj at BSPTCL

SEM is installed at both ends of 132 KV Kishanganj-Dalkhola (WB) Line. It was gathered from Kishanganj that the line is feeding load to Farbisganj at BSPTCL regularly through Transfer Bus of Kishanganj by passing the SEM at Kishanganj resulting in non-recording of energy by SEM at Kishanganj.

Bypassing of SEM installed at Tie line is violation of CEA metering regulation 2006 and the same is needed to be restored. The matter was also discussed in 31st TCC/ERPC meeting held on 13th and 14th November 2015 wherein BSPHCL informed that the issue has been resolved. However as per data received at ERLDC, the problem still persists.

Due to non-recording by SEM at Sabour and Kishanganj, energy accounting of BSPHCL is fully dependent on PGCIL end meter and there is no back up data available.

BSPTCL/BSPHCL may respond.

Deliberation in the meeting

BSPHCL representative informed that meter has been placed at Farbisgunj on 03.02.2016. ERLDC informed that they will check the data and confirm.

C. Non Receipt of SEM data from Various Locations

i. Mendhasal in OPTCL

SEM data from Mendhasal (OPTCL) of 400 KV Mendhasal(OPTCL)– Baripada(PG) line is not being received by ERLDC since November 2015. The above meter is neither communication through DCD nor DCU of AMR system. It was gathered that the meter has got hanged and ERLDC requested Baripada (PG) to rectify/replace the meter. The above matter was also discussed in 117th OCC Meeting held on 22.01.16. ERLDC has not received replacement details of defective meter.

ERLDC may update.

Powergrid may please respond.

Deliberation in the meeting

Powergrid assured that the issue would be resolved by this month end.

ii. NBU in WBSETCL

SEM data from NBU for 132 KV NBU(WB)-Siliguri (PG) D/C Line is not being received by ERLDC since 27.11.15. SEM is neither reporting data in AMR system or in DCD. Powergrid Siliguri and WBSETCL were requested to look into the matter for early rectification/replacement of the same meter. SEM data is still not being received by ERLDC and end to end data validation is not possible.

Powergrid/WBSETCL may please respond.

Deliberation in the meeting

Powergrid informed that the issue was being attended by their Siliguri personnel.

iii. Santaldih in WBSETCL

SEM from Santaldih for 220 KV Santaldih(WB)-Chandil (JUVNL) Line is not reporting either in DCU of AMR system or communicating through DCD since 28.01.16. This is also confirmed by M/s Squarem Tech i.e Vendor of WBSETCL for data collection.

Powergrid/WBSETCL may please respond.

Deliberation in the meeting

Powergrid informed that the issue would be resolved at the earliest.

iv. DSTPP Andal in DVC

SEM data of Check meter installed at DSTPP (DVC) of 400 KV DSTPP (DVC)– Jamshedpur(PG)-1 line is not being received by ERLDC since October 2015. The meter is neither reporting in AMR system nor through DCD. Powergrid and DVC were intimated

about the problem and ERLDC requested to Rectify/replace the meter. Till now no action has been taken.

Powergrid/DVC may please respond.

Deliberation in the meeting

Powergrid informed that the issue had been resolved. DVC informed that the issue was still pending. Powergrid was requested to get the issue checked once again.

Powergrid stated that on many locations where AMR had been installed the AMR was being bypassed during downloading of data by DCD and not being put in place after the downloading was completed. DVC stated that dual use of manual downloading and AMR was causing this type of problems.

It was felt that to discontinue dual meter data download (manual and also AMR), ERLDC will give a list of meters from which AMR data is being received to Powergrid. Powergrid in turn will inform the constituents to discontinue manual meter reading from such meters.

v. Raghunathpur in DVC

SEM data Check Meter installed of Raghunathpur (DVC) of 400 KV Raghunathpur (DVC)-Ranchi (PG) line (Check meter NP-7562-A) is not being received by ERLDC since last week of Dec 2015. The defective meter NP-7533-A was replaced on 24.11.15 by PGCIL and SEM data was received by ERLDC for one week only after replacement. Thereafter ERLDC has not received the data of the replaced meter at Raghunathpur.

Powergrid/DVC may please respond.

Deliberation in the meeting

Powergrid informed that the issue had been resolved. DVC informed that the issue was still pending. Powergrid was requested to get the issue checked once again.

vi. Kalyaneshwari in DVC

SEM (NP-6493-A) data of Kalyaneshwari (DVC) of 220 KV Kalyaneshwari(DVC)-Maithon(PG) line-2 is not being received by ERLDC since 25.01.16. The meter is neither reporting in AMR system nor through DCD.

Powergrid/DVC may please respond.

Deliberation in the meeting

Powergrid informed that the issue will be resolved at the earliest.

vii. Jamui in BSPTCL

Weekly SEM data from Jamui (BSPTCL) for 132 KV Jamui- Lakhisara (PG) D/C Line is not being received by ERLDC since December 2015. Due to non-receipt of data, Validation of energy transacted through the aforesaid line is not possible and failure of Lakhisarai (PG) end meter may affect the energy accounting of BSPHCL.

BSPHCL/BSPTCL may respond

Deliberation in the meeting

ERLDC stated that they have been informed by Jamui S/s that meter data could not be downloaded due to non availability of DCD. Powergrid was requested to check and make one DCD available at Jamui S/s.

ITEM NO.9 Installation of Standby Meters at Malda for 400 KV Farakka-Malda D/C

Stand by SEMs are already installed at the other end of all outgoing feeders of ISGS. In case of Farakka station, no stand by SEM is installed at Malda end for 400kV Farakka Malda D/C. Two nos of SEM at Malda end need to be installed to avoid any critical situation. In the 116th OCC meeting, Powergrid assured that SEMs will be installed by end of January, 2016.

Powergrid may respond.

Deliberation in the meeting

Powergrid informed that re-conductoring work was under progress for 400kV Malda Farakka D/C line. They assured that by the end of February, 2016 the meters would be installed.

ITEM NO.10 Installation of SEM at Haldia.

SEM is placed only at Subhashgram(PG) end of 400 KV Haldia(CESC)-Subhashgram(PG) D/C. No standby SEM has been placed at Haldia end till now. In absence of Subhashgram end data; there is no back up meter available for accounting of the power flow through that Tie line.

In last CCM held on 16.09.15, it was decided that WBSETCL/SLDC will early resolve the issue with CESC authorities. Unfortunately, till now issue is not resolved.

WBSETCL/WBSLDC may please respond.

Deliberation in the meeting

WBSEDCL representative informed that they are not aware of any development on this issue.

It was decided to refer this issue to TCC for further guidance.

ITEM NO.11 Implementation of Automatic Meter Reading in Eastern Region.

AMRs have been installed at 97 locations in 1st phase and 25 locations in 2nd phase in Eastern region. Due to addition of new substations/generating stations/transmission lines in Eastern Region, 16 new locations have been added after 2nd phase of implementation of AMR project. These 16 new locations were required to be added under AMR project as 3rd phase of implementation. List of new locations with SEMs to be incorporated are enclosed in **Annexure-VIII**

Inclusion of new locations and total cost involvement(including 5 years of AMC) for AMR 3rd phase were last discussed in 31st TCC/ERPC OCC meeting held on 13.11.15/14.11.15 wherein TCC/ERPC approved the cost of approximately Rs. 1.29 Cr ± 10%.

POWERGRID may further update the latest status of implementation.

Deliberation in the meeting

Powergrid informed that the implementation of 3rd phase would take another 6 months. Meanwhile, Powergrid requested ERLDC to segregate the list based on (1) meters already included in AMR and having problems in data sending(to be considered in AMC) (2) Meters in new locations to be provided AMR and (3) new meters to be provided AMR in existing locations due to addition of new lines.

ITEM NO.12 Time correction of SEMs in Eastern Region

The drifting of meter time is important in commercial terms since the reading for a block for a time drifted meter might not be true and lead to erroneous calculation of Deviation Charge for that constituent. Further, it was decided to keep this as a standing agenda in Commercial Sub Committee meetings for monitoring. List of Time drifted meters in ER is enclosed in **Annexure-IX**

In 30th CC meeting, it was emphasized that constituents should continue to make one minute adjustments per week to reduce the time drift. Constituents were requested to furnish the monthly status of time correction activities.

ERLDC has not received the status except, Talcher NTPC, Chuzachen and Miramundali(OPTCL).

Based on discussions in last Commercial Committee meeting, Member Secretary had written a letter to ED (Engineering), PGCIL for a solution.

Powergrid may inform any latest development on the issue.

Members may note.

Deliberation in the meeting

Powergrid and Constituents were requested to send the status of time correction of meters as per Annexure-IX on a regular basis.

Powergrid informed that for new meters to be procured they have kept the technical feasibility of bulk time correction facility. For existing meters however, no bulk time correction was technically feasible.

Members appreciated the development of introduction of bulk time correction of new meters.

ITEM NO.13 Non-submission of weekly SEM readings by Tuesday noon

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 due to AMR implementation at various locations. However general trend of receipt of readings was as below:

By Wednesday or later: APNRL, Rangpo (PGCIL), WBSETCL & SIKKIM

APNRL, WBSETCL and SIKKIM are requested to please adhere to the schedule.

Deliberation in the meeting

Members noted with appreciation that after the introduction of AMR most of the meter readings were being received at ERLDC on timely basis.

Powergrid was requested to sort out the issues w.r.t delay of meter data receipt from Rangpo (PG).

Regarding meters at APNRL it was informed that some new meters needed to be incorporated in the AMR. ERLDC would check and inform the same to Powergrid.

ERLDC informed that the readings were received late from Kalimpong of WBSETCL and Melli, Ravangla of Sikkim. Powergrid informed that they are facing issues with WBSETCL substations with regard to access to TCS personnel in the substation for AMR related works. Member Secretary requested Powergrid to inform the SLDC, WBSETCL before sending personnel to substations. Powergrid was also requested to send a programme to Member Secretary so that the issue could be facilitated.

ITEM NO.14 Procurement of new SEM's and DCD/Laptops

In 30th ERPC meeting procurement of 965 no of SEM's and 110 nos of Laptop/DCD (in 111th 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 beneficiary constituents of Eastern Region in proportion to the share allocation for the month in which the proposal was approved in the ERPC meeting.

Powergrid may further update the status of procurement.

Deliberation in the meeting

Powergrid informed that tendering was complete and LOA was expected to be issued by the end of this month.

Powergrid was requested to confirm whether bulk time correction and AMR facility is present in the meters to be procured. If the facility was not present Powergrid may discuss and get them incorporated before the award of tender.

ITEM NO.15 Non-release of payment towards service charges for maintenance of EMS/SCADA system

LTSA (Long term Service Agreement) contract for EMS/SCADA system installed at all control center has been awarded to M/s Alstom T&D Ltd. on 15th January 2010. Status of due payment to be received from JUSNL (erstwhile JSEB), DVC and BSPTCL is as follows:

Outstanding against EMS SCADA AMC as on 02.02.2016

| Constituents | Total Outstanding (in Rs.) | Due date | For the quarter of |
|--------------|----------------------------|--------------------------------|--|
| JUSNL | 1453059 | January 2015 | 4 th Nov 15 – 3 rd Feb 16 |
| DVC | 780227 | 16 th October 2015 | |
| BSPTCL | 15327 | 14 th November 2015 | 18th Jan 2015 to 17 th Apr 2015 (21 st Qtr) |

Besides the above Outstanding, service tax payment of Rs. 145149/- is also due from JUSNL since Oct 2014 onwards.

JUSNL/DVC/BSPTC may respond.

Deliberation in the meeting

JUSNL representative was not present. DVC informed that they would release the payment within 2-3 days.

BSPTCL representative informed that they have made up to date payment of EMS-SCADA AMC. BSPTCL was requested to give the payment details to ERLDC for confirmation from their end.

ITEM NO.16 Nomination of Nodal Officers by Regional Entities—ERLDC Agenda

In the last CCM, all Regional entities were requested to intimate the contact details (like Name, designation, Mailing address, Landline No, Fax No, Email Id, Mobile No etc) 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.

So far details of Nodal person only from Teesta and Talcher NTPC have been received by ERLDC.

In the last CCM, NTPC, NHPC, OPTCL informed that they would send the name and details of nodal person at the earliest. Unfortunately, no further information has been received by ERLDC.

Members may provide the details.

Deliberation in the meeting

NTPC ER-I(HQ) nominated Shri S.K.Roy, Sr.Manager (OS), mobile No-9473400272

NHPC, OPTCL, BSPTCL, DVC informed that they would intimate nodal officer from Rangit within a week

GMR informed that they would give the details of nodal officer today itself by email.

WBSEDCL informed that they would take up with WBSETCL for further action.

PART B: NEW ITEMS

ITEM NO.17 Agenda items submitted by NHPC

1) Non-opening of LC of requisite value :-

NBPDCL has opened Letter of Credit of amounting to Rs.2.10 Crs against requisite amount of Rs.6.65 Crs. Similarly, SBPDCL has opened Letter of Credit of amounting to Rs.2.90 Crs against requisite amount of Rs.8.44 Crs. Although BSPHCL has provided L.C amounting to ₹2.40 Crs which is valid upto 27.12.2016, it is intimated that respective discom i.e. NBPDCL & SBPDCL should provide L.C of requisite values and L.C provided by BSPHCL may be discontinued.

NHPC may explain.

Deliberation in the meeting

NHPC explained.

SBPDCL/NBPDCL representative informed that they were processing the case and the LC of requisite amount will be opened shortly.

2) Payment of outstanding dues for more than 60 days.

i) WBSEDCL

As per commitment, WBSEDCL had to pay arrear dues of TLDP-III in 10 (ten) nos. installments (for energy supplied up to Feb'2015). We were to receive seven installments till date but we have actually received only three installments (i.e. Rs. 66.03 Crs.) against arrear dues of Rs. 220.13 Crores.

As on date, an amount of Rs.154.09 Crs is still outstanding against arrear dues of Rs.220.13 Crores and surcharge amounting to Rs.24.39 Crs (up to 31.12.2015) is also outstanding. Further, an amount of Rs. 5.51Crs including surcharge of Rs. 0.95 Crs is outstanding for more than 60 days in respect of energy supplied from Rangit & Teesta-V Power Stations. We are regularly making request to WBSEDCL to clear all outstanding dues in respect of Rangit, Teesta-V and Teesta Low Dam-III power Stations.

ii) NBPDCL

An amount of **Rs.16.48 Crs** is outstanding for more than 60 days including surcharge of **Rs. 1.48 Crs**.

NHPC may explain.

Deliberation in the meeting

NHPC explained that WBSEDCL had cleared around 110 Crores already and requested for release of the balance outstanding of around 44 Cr. Further, he requested WBSEDCL to release the Rs.24 Cr surcharge. WBSEDCL representative informed that they would work out the surcharge and their management will take a decision.

NHPC informed that the outstanding of SBPDCL was around Rs.10.80 Cr and requested NBPDC and SBPDCL to release their dues at the earliest. NBPDC/SBPDCL informed that the bills are under process and payment would be released at the earliest.

3) Signing of BPSA in respect of Rangit & Teesta-V Power Stations.

Signing of BPSA is pending in respect of Rangit & Teesta-V Power Stations by JBVNL & GRIDCO. NHPC has requested beneficiaries of Rangit & Teesta-V Power Stations except WBSEDCL to give their consent for extension of existing PPA on same terms and conditions for 35 years from COD of last unit of respective power stations. But NHPC has not received the consent of either of the beneficiary till date.

Members may respond.

Deliberation in the meeting

GRIDCO informed that the issue was under active consideration of their management and by Feb'16-March'16 some outcome was expected.

4) Signing of PPA in respect of Teesta-IV H.E.Project.

Signing of Power Purchase Agreement is pending with Gridco, SBPDCL & NBPDC in spite of regular follow up with these discoms. NHPC has to submit the status of execution of PPA by the discoms who have given consent to procure power from the said hydro-electric project, to MOP. Gridco, NBPDC & SBPDCL may be requested to sign the long pending Power purchase agreement on priority.

Members may respond.

Deliberation in the meeting

NHPC informed that the capacity of Teesta-IV HEP was 520 MW.

GRIDCO requested NHPC to visit their office for settlement of the issue.

NBPDC/SBPDCL informed that the issue was under consideration of their management.

5) Signing of PPA in respect of Tawang H.E.Project, Stage-I & II.

Signing of Power Purchase Agreement is pending with Gridco, SBPDCL, NBPDC, WBSEDCL, Sikkim and JUVNL in spite of regular follow up with these discoms. All above discoms may be requested to sign the PPA at the earliest so that status of signing of PPA by the beneficiaries may be intimated to MOP.

Members may respond.

Deliberation in the meeting

NHPC informed that Tawang HEP Stage-I was of 600 MW capacity and Tawang HEP Stage-II was of 800 MW capacity.

GRIDCO requested NHPC to visit their office for settlement of the issue of signing PPA.

NBPDC/SBPDCL, WBSEDCL informed that the issue was under consideration of their management.

JUVNL, Sikkim representative was not present.

ITEM NO.18 Installation of polymer insulators on New Transmission lines-Agenda item referred by OCC

In the 30th ERPC Meeting held on 20.06.2015, Powergrid representative delivered a brief presentation highlighting the benefits of Polymer insulators vis-à-vis porcelain/anti-fog disc type insulators mainly on account of high number of trippings of transmission lines due to flashover of insulators.

Powergrid proposed the scheme for new transmission lines as well as the existing ones and at the same time assured that there would be no extra financial burden on the constituents for replacement of the insulators.

Powergrid was advised to submit a detailed roadmap for implementation of this scheme along with other requisite details.

In 113th OCC, Powergrid ER-I has submitted the tentative schedule of replacement work.

OCC advised Powergrid to submit the detail schedule inclusive of time required for replacement etc. so that the same may be put up for further discussion and approval.

In 114th OCC, Powergrid ER-II has submitted the tentative schedule of replacement and informed that they are planning to start the replacement of insulators work with 220kV Birpara-Salakati D/C line in December, 2015.

In the 115th OCC meeting.

Powergrid- Odisha submitted their schedule of insulator replacement which is given at **Annexure-X**.

OCC agreed to discuss the shutdown of 220kV Birpara-Salakati D/C along with the shutdown of elements under Item No. C.1.

Further, OCC decided to refer the commercial issues of line shutdowns for insulator replacements to next Commercial Committee meeting.

Powergrid may brief the house.

Members may discuss.

Deliberation in the meeting

After detailed deliberation, members agreed to consider outage time for replacement of porcelain insulator with polymer insulator as Deemed Availability. CCM, however, decided that outage time as cleared and certified by OCC for this replacement work only will be considered for Deemed Availability and for which Powergrid is to place the shutdown request for this scheme in each OCC. Powergrid agreed.

ITEM NO.19 Repair of 03 no's 50 MVA (220/132) ICT –Agenda referred by OCC

As per decision taken on 29th ERPC meeting, 03 no's 50 MVA (220/132) ICT has been taken up for repairing. The minimum cost for repairing comes to Rs. 3,63,34,950/- as per approved tendering procedure. After repairing all three transformers will be available as Regional Spares at Malda (02 Nos) & Birpara (01 No).

Discussion is to be held for sharing the cost of repairing for 03 no's transformers among constituents.

In the 117th OCC meeting

OCC felt that it is a commercial issue and refer the issue to Commercial Committee.

Powergrid may brief the house.

Members may discuss.

Deliberation in the meeting

It was felt by the Commercial Sub Committee that there are no 50 MVA (220/132 kV) transformers in use in ER except in Sikkim perhaps. Therefore the proposal of repairing three old 50 MVA transformers was not financially prudent at this juncture. Instead members felt that procurement of one 160 MVA new transformer as regional spare under buyback scheme by exchanging the three 50 MVA transformer could be a better proposal. Alternatively, Powergrid may scrap these transformers.

ITEM NO.20 Identification of non-ISTS carrying inter-state power-Agenda referred by OCC

The CERC (Sharing of Transmission charges and Losses) (Third Amendment) Regulations, 2015 require the identification of STU lines carrying interstate power. The certification of such lines carrying interstate power is to be done by RPC in consultation with RLDC. List of lines proposed to be carrying interstate power had been sought from all the states, however, only WBSETCL and OPTCL have responded.

In a Suo-Motu Petition (Petition No-15/Suo-Motu/2012 dated 14.06.2012), CERC had observed thus:

6. As a first step towards inclusion of non-ISTS lines in the PoC transmission charges, the Commission proposes to include the transmission lines connecting two States, for computation of PoC transmission charges and losses. However, for the disbursement of transmission charges, tariff for such assets needs to be approved by the Commission in accordance with the provisions of Sharing Regulations. Accordingly, we direct the owners of these inter-State lines to file appropriate application before the Commission for determination of tariff for facilitating disbursement.

Many STU's have already filed their petitions (Petition No. 246/TT/2013 (Haryana), 232/TT/2013 (KSEB), 217/TT/2013 (MP), etc) before CERC for inclusion of STU lines connecting two states.

Since some of the lines proposed by WBSETCL and OPTCL are in the nature of transmission lines connecting two states, ERPC may certify these as Inter State Lines for the purpose of inclusion for tariff recovery under PoC mechanism.

In case any intra state line is desired to be certified as carrying interstate power, the list of such lines may be sent to ERPC Secretariat and ERLDC for further necessary action.

In 31st TCC, it was informed that WBSETCL and OPTCL have filed petitions for inclusion of their lines as interstate lines. CERC vide their Order dated 08.06.15 (Pet No-259/TT/2013) has already considered the 400 kV Kharagpur-Baripada and 220 kV Santhaldih-Chandil lines of WBSETCL. However for OPTCL (petition No-203/TT/2013) order may not have been issued by CERC as on date. BSPHCL and JUSNL informed that they are on the job of identifying the lines in their system.

It was also informed that as per CERC order lines connecting two states may be considered as natural ISTS. For such lines the constituents may directly approach the commission for adoption of SERC tariff or for determination of tariff in case SERC tariff was not available.

For balance lines TCC members were informed that Certification of non-ISTS lines carrying inter-State power, which were not approved by the RPCs on the date of notification of the Central Electricity Regulatory Commission (Sharing of Transmission Charges and Losses) Regulations, 2009, shall be done on the basis of load flow studies. For this purpose, STU shall put up proposal to the respective RPC Secretariat for approval. RPC Secretariat, in consultation with RLDC, using WebNet Software would examine the proposal. The results of the load flow studies and participation factor indicating flow of Inter State power on these lines shall be used to compute the percentage of usage of these lines as inter State transmission.

List of Lines considered by CERC in their Suo Motu order in petition No-15/Suo-Motu/2012 dated 14.03.12

| Voltage (KV) | LINES | | |
|--------------|----------|---------------|------------------|
| 400 | Kolaghat | Baripada | WBSETCL-PG |
| 220 | Waria | Bidhannagar 1 | DVC-WBSETCL |
| 220 | Waria | Bidhannagar 2 | DVC-WBSETCL |
| 220 | Chandil | Santaldih | JSEB-WBSETCL |
| 220 | Patratu | BodhGaya 1 | JSEB-BSEB |
| 220 | Patratu | BodhGaya 2 | JSEB-BSEB |
| 220 | Patratu | BodhGaya 3 | JSEB-BSEB |
| 220 | Tenughat | Biharshariff | JSEB-BSEB |
| 220 | Joda | Ramchandrapur | OPTCL-JSEB |
| 220 | Jindal | Jamshedpur | OPTCL-JSEB (DVC) |

Lines carrying Inter State Power as Submitted by WBSETCL

| SL. NO. | Voltage (kV) | TIE LINE | | REMARKS |
|---------|--------------|-----------------|-------------------|---------|
| 1 | 132 | BIRPARA (PG) | BIRPARA CKT 1 | WBSETCL |
| 2 | 132 | BIRPARA (PG) | BIRPARA CKT 2 | WBSETCL |
| 3 | 132 | NJP | NBU CKT 1 | WBSETCL |
| 4 | 132 | NJP | NBU CKT 2 | WBSETCL |
| 5 | 132 | MALDA (PG) | MALDA CKT 1 | WBSETCL |
| 6 | 132 | MALDA (PG) | MALDA CKT 2 | WBSETCL |
| 7 | 400 | JEERAT | BERHAMPORE CKT | PGCIL |
| 8 | 400 | JEERAT | SUBHASGRAM CKT | PGCIL |
| 9 | 400 | KHARAGPUR | BARIPADA CKT | WBSETCL |
| 10 | 220 | STPS | CHANDIL CKT | WBSETCL |
| 11 | 220 | BIDHANNAGAR | WARIA CKT 1 | DVC |
| 12 | 220 | BIDHANNAGAR | WARIA CKT 2 | DVC |
| 13 | 132 | RANGIT | RAMMAM CKT | WBSETCL |
| 14 | 220 | SUBHASGRAM(PG) | SUBHASGRAM CKT 1 | WBSETCL |
| 15 | 220 | SUBHASGRAM(PG) | SUBHASGRAM CKT 2 | WBSETCL |
| 16 | 400 | PARULIA | BIDHANNAGAR CKT 1 | WBSETCL |
| 17 | 400 | PARULIA | BIDHANNAGAR CKT 2 | WBSETCL |
| 18 | 400 | SGTPP | FARAKKA CKT | PDCL |
| 19 | 400 | SGTPP | SUBHASGRAM CKT | PDCL |
| 20 | 400 | SGTPP | PARULIA CKT 1 | PDCL |
| 21 | 400 | SGTPP | PARULIA CKT 2 | PDCL |
| 22 | 220 | DALKHOLA (PG) | DALKHOLA CKT 1 | WBSETCL |
| 23 | 400 | SGTPP | PARULIA CKT 2 | PDCL |
| 24 | 132 | KURSEONG | RANGIT CKT | PGCIL |
| 25 | 132 | KURSEONG | SILIGURI CKT | WBSETCL |
| 26 | 220 | SUBHASGRAM (PG) | EMSS (CESC) CKT 1 | CESC |
| 27 | 220 | SUBHASGRAM (PG) | EMSS (CESC) CKT 2 | CESC |
| 28 | 220 | SUBHASGRAM (PG) | BANTALA CKT | WBSETCL |

| | | | | |
|----|-----|------------------|------------------|---------|
| 29 | 220 | SUBHASGRAM (PG)- | NEW TOWN CKT | WBSETCL |
| 30 | 400 | SUBHASGRAM (PG) | HEL CKT 1 | HEL |
| 31 | 400 | SUBHASGRAM (PG) | HEL CKT 2 | HEL |
| 32 | 400 | SGTTP | BERHAMPORE CKT 1 | PGCIL |
| 33 | 400 | SGTTP | BERHAMPORE CKT 2 | PGCIL |

Sl.No 9, 10 have already been considered by CERC for inclusion in PoC vide Order dated 08.06.15 (Pet No-259/TT/2013)

Sl.No 11,12,13 & 24 may be in the nature of natural ISTS lines as per CERC order dated 14.03.12 (petition No-15/Suo-Motu/2012)

| Tie LINES MAINTAINED BY OPTCL & USED AS ISTS LINES as submitted by OPTCL | | | | |
|---|---------------------|-----------------|-------------------|----------------|
| SL.NO. | Voltage (KV) | LINES | | CIRCUIT |
| 1 | 400 | INDRAVATI PH | INDRAVATI (PGCIL) | 1 |
| 2 | 400 | RENGALI PG | KOLAGHAT | 1 |
| 3 | 220 | BALIMELA PH | U SILERU | 1 |
| 4 | 220 | JAYANAGAR | JAYANAGAR (PGCIL) | 2 |
| 5 | 220 | BUDHIPADAR | KORBA DC | 2 |
| 6 | 220 | TARKERA | BISRA | 2 |
| 7 | 220 | JODA | RC PUR (JSEB) | 1 |
| 8 | 220 | JODA-JSPL | JAMSHEDPUR (DVC) | 1 |
| 9 | 220 | RENGALI (OPTCL) | RENGALI (PGCIL) | 2 |
| 10 | 220 | RENGALI PH | KANIHA | 1 |
| 11 | 220 | KANIHA | TTPS | 1 |
| 12 | 220 | KANIHA | MERAMUNDALI | 2 |
| 13 | 220 | KUCHEI | BALASORE | 2 |
| 14 | 132 | JODA | KENDUPOSI (JSEB) | 1 |
| 15 | 132 | KUCHEI | RAIRANGPUR | 1 |
| 16 | 132 | KUCHEI | BARIPADA | 1 |

For Sl.No 5 CERC in order dated 29.05.15 (Pet No-185/TT/2013) has already directed that wheeling charges for the line are to be pooled in PoC w.e.f 01.07.2011.

Sl.No 2,3,7,8 & 14 may be in the nature of natural ISTS lines as per CERC order dated 14.03.12 (petition No-15/Suo-Motu/2012)

All constituents were requested to provide the list of their lines with details of portion (in % and Km) under their ownership along with latest status of filing of petition/order of CERC to ERPC Secretariat for initiating action in this regard.

In the 3rd SSCM meeting,

BSPTCL submitted the list of lines which is given at **Annexure-XI**

ERPC Secretariat/ERLDC may update.

Members may discuss

Deliberation in the meeting

JUSNL, Sikkim and DVC were requested to give their list of intra state lines to be considered for carrying interstate power. It was informed that problem is being faced while running the webnet software & IIT Bombay was requested for a solution. But the problem is yet to be resolved at developers end. WRPC is also facing the same problem, it was informed in CCM. The same was also intimated to NLDC.

**ITEM NO.21 Declaration of Commercial Operation of Transmission Elements-
Agenda submitted by Powergrid**

The list of transmission elements declared under Commercial operation is at **Annexure-
XII**

Members may please note.

Deliberation in the meeting

Members noted.

The meeting ended with thanks to the chair.

Annexure - I

SUMMARY OF DEVIATION CHARGE RECEIPT AND PAYMENT STATUS

**BILL from 30.03.15 to 10.01.16 (upto Week - 41(A) of 2015 - 16)
Last Payment Disbursement Date - 29.01.16**

Figures in Rs. Lakhs

| CONSTITUENTS | Receivable | Received | Payable | Paid | Outstanding |
|-----------------------|---------------------|---------------------|---------------------|---------------------|-------------|
| WR | 52602.44468 | 48345.56440 | 361.76347 | 463.49746 | 4358.61427 |
| SR | 26560.17406 | 26791.66012 | 2031.25794 | 2170.76912 | -91.97488 |
| NER | 7921.64700 | 7036.99870 | 10944.38911 | 8776.09953 | -1283.64128 |
| NR | 0.00000 | 0.00000 | 87790.98865 | 83772.84054 | -4018.14811 |
| BSPHCL | 7346.64988 | 5389.25841 | 1014.96932 | 0.00000 | 942.42215 |
| JUVNL | 2051.51306 | 164.29730 | 867.34086 | 305.90152 | 1325.77642 |
| DVC | 654.99470 | 656.89385 | 3242.23426 | 3224.95324 | -19.18017 |
| GRIDCO | 2761.17769 | 2919.42025 | 835.84546 | 981.33241 | -12.75561 |
| WBSETCL | 6067.30869 | 6081.42893 | 678.45916 | 653.55497 | -39.02443 |
| SIKKIM | 64.66049 | 0.00000 | 1303.32878 | 1185.49235 | -53.17594 |
| NTPC | 10783.05050 | 10783.11321 | 904.06028 | 746.28827 | -157.83472 |
| NHPC | 0.00000 | 0.00000 | 2449.83027 | 2427.40995 | -22.42032 |
| MPL | 10.55998 | 57.51945 | 1058.66392 | 1088.34790 | -17.27549 |
| STERLITE | 5377.16151 | 5200.28097 | 229.01211 | 229.69311 | 177.56154 |
| APNRL | 547.81928 | 221.09199 | 279.37810 | 0.00000 | 47.34920 |
| CHUZACHEN (GATI) | 260.86553 | 260.86553 | 409.65074 | 408.76506 | -0.88568 |
| NVVN (IND-BNG) | 50.52228 | 50.52228 | 170.17900 | 167.12975 | -3.04925 |
| JITPL | 948.02247 | 968.41920 | 1932.32442 | 2005.90010 | 53.17895 |
| GMR | 783.84118 | 806.05493 | 470.59050 | 491.40401 | -1.40024 |
| IND BARATH | 221.14147 | 214.74041 | 9.56016 | 9.56016 | 6.40106 |
| TPTCL(DAGACHU) | 350.52273 | 352.03482 | 158.89037 | 160.40247 | 0.00001 |
| JLHEP (DANS ENERG) | 36.65373 | 31.02340 | 146.02708 | 146.02708 | 5.63033 |
| Pool Balance | 0.00000 | 0.00000 | -81.36436 | 42.08344 | 123.44780 |
| Addl Deviation charge | 8619.67736 | 6873.73570 | 0.00000 | 0.00000 | 1745.94166 |
| IRE | 0.00000 | 0.00000 | -314.19340 | 0.00000 | 314.19340 |
| TOTAL | 125400.73091 | 116331.18815 | 116893.18620 | 109457.45244 | |

| | | | | |
|---------------------------|-----------------------|--------------|------------------------------|--------------------|
| | % Realization | 92.77 | As on | 01.02.16 |
| 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 | |

STATUS OF REACTIVE CHARGES

RECEIVABLE IN ER POOL AS PER PUBLISHED A/C UPTO 10.01.16 (2015 -16)
AS ON 01.02.2016

| CONSTITUENT | AMOUNT RECEIVABLE IN THE POOL (Rs.) | AMOUNT RECEIVED IN THE POOL (Rs.) | OUTSTANDING (Rs.) |
|--------------------|--|--|------------------------------|
| | | | |
| WBSETCL | 58543261 | 31731669 | 26811592 |
| | | | |
| JUVNL | 0 | 0 | 0 |
| | | | |
| GRIDCO | 72542254 | 65369716 | 7172538 |
| | | | |
| SIKKIM | 152983 | 152983 | 0 |
| | | | |
| TOTAL | 131238498 | 97254368 | 33984130 |

Annexure - III

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 |
| TOTAL | 43.21604 | 56.19153 | 43.21604 | 56.19153 | 0.00000 |

% Realization**As on 17.09.2013**

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

| |
|---|
| DETAILS OF DISBURSEMENT TO POWER SYSTEM DEVELOPMENT FUND |
|---|

| SI No | Nature of Amount | Amount transferred to PSDF | Date of Disbursement | Cheque No | Remarks |
|-------|---------------------------------|----------------------------|----------------------|-----------|---|
| 1 | Openeing Balance(upto 31.08.15) | 80634.61802 | | | Addl Dev Charge |
| 2 | Addl. Dev | 511.74648 | 08.09.15 | | Addl Dev Charge 15-16 |
| 3 | Addl. Dev | 68.39639 | 11.09.15 | | Addl Dev Charge 15-16 |
| 4 | Addl. Dev | 129.22828 | 15.09.15 | | Addl Dev Charge 15-16 |
| 5 | Addl. Dev | 66.92997 | 22.09.15 | | Addl Dev Charge 15-16 |
| 6 | Addl. Dev | 205.31517 | 24.09.15 | | Addl Dev Charge 15-16 |
| 7 | Addl. Dev | 28.89591 | 28.09.15 | | Addl Dev Charge 15-16 |
| 8 | Addl. Dev | 72.28358 | 05.10.15 | | Addl Dev Charge 15-16 |
| 9 | Addl. Dev | 375.29925 | 07.10.15 | | Addl Dev Charge 15-16 |
| 10 | Addl. Dev | 126.75637 | 09.10.15 | | Addl Dev Charge 15-16 |
| 11 | Addl. Dev | 23.73515 | 14.10.15 | | Addl Dev Charge 15-16 |
| 12 | Addl. Dev | 144.94455 | 19.10.15 | | Addl Dev Charge 15-16 |
| 13 | Addl. Dev | 13.79365 | 23.10.15 | | Addl Dev Charge 15-16 |
| 14 | Addl. Dev | 8.71157 | 29.10.15 | | Addl Dev Charge 15-16 |
| 15 | Addl. Dev | 95.35424 | 03.11.15 | | Addl Dev Charge 15-16 & balance of Fy 14-15 |
| 16 | Addl. Dev | 397.93866 | 05.11.15 | | Addl Dev Charge 15-16 |
| 17 | Addl. Dev | 162.09969 | 09.11.15 | | Addl Dev Charge 15-16 |
| 18 | Addl. Dev | 4.92340 | 12.11.15 | | Addl Dev Charge 15-16 |
| 19 | Addl. Dev | 17.32557 | 17.11.15 | | Addl Dev Charge 15-16 |
| 20 | Addl. Dev | 0.61160 | 20.11.15 | | Addl Dev Charge 15-16 |
| 21 | Addl. Dev | 37.85621 | 24.11.15 | | Addl Dev Charge 15-16 |
| 22 | Addl. Dev | 7.13054 | 27.11.15 | | Addl Dev Charge 15-16 |
| 23 | Addl. Dev | 2.03185 | 01.12.15 | | Addl Dev Charge 15-16 |
| 24 | Addl. Dev | 3.72070 | 09.12.15 | | Addl Dev Charge 15-16 |
| 25 | Addl. Dev | 19.82318 | 11.12.15 | | Addl Dev Charge 15-16 |
| 26 | Addl. Dev | 16.16239 | 15.12.15 | | Addl Dev Charge 15-16 |
| 27 | Addl. Dev | 101.56644 | 17.12.15 | | Addl Dev Charge 15-16 |
| 28 | Reactive Charge | 350.00000 | 21.12.15 | | Reactive Energy Charge_15-16 |
| 29 | Addl. Dev | 86.57935 | 22.12.15 | | Addl Dev Charge 15-16 |
| 30 | Addl. Dev | 127.95858 | 28.12.15 | | Addl Dev Charge 15-16 |
| 31 | Addl. Dev | 32.14249 | 30.12.15 | | Addl Dev Charge 15-16 |
| 32 | Addl. Dev | 18.40442 | 01.01.16 | | Addl Dev Charge 15-16 |
| 33 | Addl. Dev | 16.46976 | 05.01.16 | | Addl Dev Charge 15-16 |
| 34 | Addl. Dev | 33.27577 | 07.01.16 | | Addl Dev Charge 15-16 |
| 35 | Addl. Dev | 19.11532 | 11.01.16 | | Addl Dev Charge 15-16 |
| 36 | Addl. Dev | 90.94357 | 14.01.16 | | Addl Dev Charge 15-16 |
| 37 | Addl. Dev | 19.04467 | 18.01.16 | | Addl Dev Charge 15-16 |
| 38 | Addl. Dev | 50.72543 | 20.01.16 | | Addl Dev Charge 15-16 |
| 39 | Addl. Dev | 11.10228 | 22.01.16 | | Addl Dev Charge 15-16 |
| 40 | Addl. Dev | 45.43206 | 27.01.16 | | Addl Dev Charge 15-16 |
| 41 | Addl. Dev | 96.62204 | 29.01.16 | | Addl Dev Charge 15-16 |
| 42 | Reactive Charge | 450.00000 | 02.02.16 | | Reactive Energy Charge_15-16 |
| | Total | 84725.01454 | | | |

Annexure-V

| | 2014-15 | | | | 2015-16 | | |
|-----------------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|
| Name of The Utility | Q1 (01.07.14) | Q2 (08.10.14) | Q3 (05.01.15) | Q4 (07.04.15) | Q1 (01.07.15) | Q2(05.10.15) | Q3(05.01.16) |
| Inter Regional | | | | | | | |
| WR | YES | YES | YES | YES | YES | NO | YES |
| SR | NO | NO | YES | YES | YES | YES | NO |
| NER | YES | YES | NO | YES | NO | NO | YES |
| NR | NO | NO | NO | NO | NO | NO | NO |
| Intra Regional | | | | | | | |
| BSPHCL | NO | NO | NO | NO | NO | NO | NO |
| JUVNL | YES | YES | YES | NO | NO | NO | NO |
| DVC | YES | YES | YES | YES | YES | YES | NO |
| GRIDCO | YES | YES | YES | YES | YES | YES | NO |
| WBSETCL | YES | YES | YES | YES | YES | YES | YES |
| SIKKIM | NO | NO | NO | NO | NO | NO | NO |
| NTPC | YES | YES | YES | YES | YES | YES | YES |
| NHPC | YES | YES | YES | YES | YES | YES | YES |
| MPL | YES | YES | YES | YES | YES | YES | YES |
| STERLITE | YES | YES | YES | YES | YES | YES | YES |
| APNRL | YES | NO | YES | YES | YES | YES | YES |
| CHUZACHEN(GATI) | YES | YES | YES | YES | YES | YES | YES |
| NVVN | YES | YES | YES | YES | YES | YES | YES |
| GMR | YES | YES | YES | YES | YES | NO | NO |
| JITPL | YES | YES | YES | YES | YES | YES | YES |
| INBEUL | N/A | N/A | YES | YES | NO | NO | NO |
| TPTCL (DAGACHU) | N/A | N/A | N/A | YES | YES | YES | YES |
| JLHEP(DANS ENERGY) | 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

Current Status of Letter of Credit (LC) amount against DSM 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 2014-15 | Total Deviation charges payable to pool during 2014-15 | Average weekly Deviation Charge liability | LC Amount | Due date of expiry | Remarks |
|-------|-------------------|--|--|--|---|-----------|--------------------------------------|--------------------------|
| | | (A) | (B) | (C) | (D) | (E) | (F) | (G) |
| 1 | BSPHCL | 28 | 28 | 4659.91439 | 89.61374 | 98.57511 | 03.01.2017 | Opened for 529.52000 Lac |
| 2 | JUVNL | 32 | 32 | 3707.07118 | 71.28983 | 78.41881 | Already Expired on 16.09.2014 | Not Opened |
| 3 | DVC | 33 | 3 | 7336.19874 | 141.08075 | 155.18882 | | Not Opened |
| 4 | WBSETCL | 50 | 2 | 14085.93753 | 270.88341 | 297.97176 | 08.09.2016 | Opened |
| 5 | SIKKIM | 5 | 5 | 134.79305 | 2.59217 | 2.85139 | 04.10.2016 | Opened for 2.85136 Lac |
| 6 | MPL | 15 | 13 | 414.42411 | 7.96969 | 8.76666 | 31.08.2016 | Opened |
| 7 | STERLITE | 29 | 6 | 2068.14512 | 39.77202 | 43.74922 | 31.05.2016 | Opened |
| 8 | APNRL | 37 | 37 | 1657.059 | 31.86652 | 35.05317 | 20.04.2016 | Opened for 87.04872 Lacs |
| 9 | CHUZACHEN | 17 | 3 | 148.81229 | 2.86177 | 3.14795 | 31.03.2016 | Opened for 0.24000 Lac |
| 10 | JITPL | 41 | 7 | 4105.77792 | 78.95727 | 86.85299 | | Not Opened |
| 11 | GMR | 16 | 10 | 1209.52649 | 23.26012 | 25.58614 | 15.07.2016 | Opened |
| 12 | IND-BARATH | 20 | 8 | 54.65274 | 2.73264 | 3.00590 | | Not Opened |

| S.No | MAKE | ERLDC_ID | OLD MTR NO | NEW MTR NO | LOCATION |
|------|------|----------|------------|------------|---------------------|
| 1 | L&T | TL-32 | | NP-7961-A | TALCHER SOLAR(NTPC) |
| 2 | L&T | TL-33 | | NP-7626-A | TALCHER SOLAR(NTPC) |
| 3 | L&T | TL-34 | | NP-7962-A | TALCHER SOLAR(NTPC) |
| 4 | L&T | TL-35 | | NP-7628-A | TALCHER SOLAR(NTPC) |
| 5 | L&T | TL-37 | | NP-7627-A | TALCHER SOLAR(NTPC) |
| 6 | L&T | TL-38 | | NP-5968-A | TALCHER SOLAR(NTPC) |
| 7 | L&T | OR-15 | | NP-7991-A | BALIMELA(GRIDCO) |
| 8 | L&T | OR-16 | | NP-7992-A | BALIMELA(GRIDCO) |
| 9 | L&T | EN-10 | | NP-7847-A | RANCHI NEW(PG) |
| 10 | L&T | EN-11 | | NP-7876-A | RANCHI NEW(PG) |
| 11 | L&T | EN-12 | | NP-7849-A | RANCHI NEW(PG) |
| 12 | L&T | EN-13 | | NP-7866-A | RANCHI NEW(PG) |
| 13 | L&T | EN-14 | | NP-7865-A | RANCHI NEW(PG) |
| 14 | L&T | EN-19 | | NP-7875-A | RANCHI NEW(PG) |
| 15 | L&T | EN-46 | | NP-7432-A | LAKHISARAI(PG) |
| 16 | L&T | EN-27 | | NP-7433-A | LAKHISARAI(PG) |
| 17 | L&T | EN-20 | | NP-7958-A | RANGPO(PG) |
| 18 | L&T | EN-21 | | NP-7959-A | RANGPO(PG) |
| 19 | L&T | EN-22 | | NP-7933-A | RANGPO(PG) |
| 20 | L&T | EN-23 | | NP-7955-A | RANGPO(PG) |
| 21 | L&T | EN-24 | | NP-7956-A | RANGPO(PG) |
| 22 | L&T | EN-25 | | NP-7957-A | RANGPO(PG) |
| 23 | L&T | TL-31 | NP-7625-A | NP-7909-A | TALCHER SOLAR(NTPC) |
| 24 | L&T | TL-30 | NP-7624-A | NP-5979-A | TALCHER SOLAR(NTPC) |
| 25 | L&T | EN-29 | | NP-7950-A | ANGUL(PG) |
| 26 | L&T | EN-30 | | NP-7558-A | ANGUL(PG) |
| 27 | L&T | EN-31 | | NP-7987-A | ANGUL(PG) |
| 28 | L&T | EN-32 | | NP-7988-A | ANGUL(PG) |
| 29 | L&T | EN-37 | | NP-7889-A | LAKHISARAI(PG) |
| 30 | L&T | TL-37 | NP-7627-A | NP-7946-A | TALCHER SOLAR(NTPC) |
| 31 | L&T | TL-40 | NP-7618-A | NP-7945-A | TALCHER SOLAR(NTPC) |
| 32 | L&T | EN-33 | | NP-7922-A | RANGPO(PG) |
| 33 | L&T | EN-34 | | NP-7923-A | RANGPO(PG) |
| 34 | L&T | EN-35 | | NP-7924-A | RANGPO(PG) |
| 35 | L&T | EN-36 | | NP-7623-A | RANGPO(PG) |
| 36 | L&T | EN-39 | | NP-7622-A | RANGPO(PG) |
| 37 | L&T | TL-39 | NP-7614-A | NP-7631-A | TALCHER SOLAR(NTPC) |
| 38 | L&T | TL-41 | NP-7615-A | NP-7633-A | TALCHER SOLAR(NTPC) |
| 39 | L&T | EN-38 | | NP-7621-A | RANGPO(PG) |
| 40 | L&T | EN-43 | | NP-7629-A | ANGUL(PG) |
| 41 | L&T | EN-44 | | NP-7949-A | ANGUL(PG) |
| 42 | L&T | EN-40 | | NP-7906-A | SUNDERGARH(PG) |
| 43 | L&T | EN-41 | | NP-7634-A | SUNDERGARH(PG) |
| 44 | L&T | EN-42 | | NP-7638-A | SUNDERGARH(PG) |
| 45 | L&T | TL-36 | NP-7632-A | NP-7630-A | TALCHER SOLAR(NTPC) |
| 46 | L&T | EN-32 | NP-7988-A | NP-7908-A | ANGUL(PG) |
| 47 | L&T | EN-26 | | NP-7885-A | LAKHISARAI(PG) |
| 48 | L&T | EN-47 | | NP-7886-A | LAKHISARAI(PG) |
| 49 | L&T | BI-50 | | NP-7869-A | KUDRA(BSPHCL) |
| 50 | L&T | EN-50 | | NP-7429-A | LAKHISARAI(PG) |
| 51 | L&T | EN-50 | | NP-7429-A | LAKHISARAI(PG) |
| 52 | L&T | EN-51 | | NP-7887-A | LAKHISARAI(PG) |
| 53 | L&T | EN-52 | | NP-7430-A | LAKHISARAI(PG) |
| 54 | L&T | BI-26 | | NP-8697-A | LAKHISARAI(BSPHCL) |
| 55 | L&T | BI-27 | | NP-8698-A | JAMUI(BSPHCL) |
| 56 | L&T | IB-01 | | NP-8792-A | IBEUL |
| 57 | L&T | IB-02 | | NP-8793-A | IBEUL |
| 58 | L&T | IB-03 | | NP-8795-A | IBEUL |
| 59 | L&T | IB-04 | | NP-8794-A | IBEUL |
| 60 | L&T | IB-05 | | NP-8783-A | IBEUL |
| 61 | L&T | IB-06 | | NP-8782-A | IBEUL |
| 62 | L&T | IB-07 | | NP-8784-A | IBEUL |
| 63 | L&T | IB-08 | | NP-8796-A | IBEUL |
| 64 | L&T | EN-54 | | NP-7619-A | RANGPO(PG) |
| 65 | L&T | EN-55 | | NP-7620-A | RANGPO(PG) |
| 66 | L&T | EN-56 | | NP-7883-A | JAMSHEDPUR(PG) |
| 67 | L&T | EN-57 | | NP-7907-A | SUNDERGARH(PG) |
| 68 | L&T | NB-01 | | NP-8700-A | NABINAGAR |
| 69 | L&T | NB-02 | | NP-8701-A | NABINAGAR |
| 70 | L&T | EN-58 | | NP-8678-A | CHAIBASA(PG) |
| 71 | L&T | EN-59 | | NP-8710-A | RANGPO(PG) |
| 72 | L&T | EN-60 | | NP-8711-A | RANGPO(PG) |
| 73 | L&T | WB-23 | | LT-0194-A | SAGARDIGHI(WBSETCL) |
| 74 | L&T | WB-24 | | LT-0191-A | SAGARDIGHI(WBSETCL) |
| 75 | L&T | NB-05 | | NP-8662-A | NABINAGAR |
| 76 | L&T | WB-25 | | NP-8724-A | SAGARDIGHI(WBSETCL) |
| 77 | L&T | WB-26 | | NP-8725-A | SAGARDIGHI(WBSETCL) |
| 78 | L&T | WB-27 | | NP-8723-A | SAGARDIGHI(WBSETCL) |
| 79 | L&T | WB-28 | | NP-8722-A | SAGARDIGHI(WBSETCL) |
| 80 | L&T | EN-68 | | NP-8721-A | BERHAMPUR(PG) |
| 81 | L&T | EN-69 | | NP-8726-A | BERHAMPUR(PG) |
| 82 | L&T | EN-63 | | NP-8780-A | ANGUL(PG) |
| 83 | L&T | EN-64 | | NP-8781-A | ANGUL(PG) |
| 84 | L&T | EN-65 | | NP-8785-A | ANGUL(PG) |
| 85 | L&T | EN-66 | | NP-8786-A | ANGUL(PG) |
| 86 | L&T | EN-67 | | NP-8637-A | CHAIBASA(PG) |
| 87 | L&T | TS-05 | NP-5896-A | NP-8716-A | TEESTA |
| 88 | L&T | EN-77 | | NP-8778-A | ANGUL(PG) |
| 89 | L&T | EN-78 | | NP-8779-A | ANGUL(PG) |
| 90 | L&T | EN-79 | | NP-7636-A | SUNDERGARH(PG) |
| 91 | L&T | EN-80 | | NP-8714-A | RANGPO(PG) |
| 92 | L&T | EN-81 | | NP-8715-A | RANGPO(PG) |
| 93 | L&T | EN-82 | | NP-8777-A | ANGUL(PG) |
| 94 | L&T | SM-05 | | NP-8797-A | SAGBARI(SIKKIM) |
| 95 | L&T | SM-06 | | NP-8798-A | SAGBARI(SIKKIM) |
| 96 | L&T | SM-07 | | NP-8730-A | GYALSHING(SIKKIM) |
| 97 | L&T | EN-83 | | NP-8673-A | BANKA(PG) |
| 98 | L&T | EN-84 | | NP-8675-A | BANKA(PG) |
| 99 | L&T | FK-04 | NP-7985-A | NP-8706-A | FARAKKA(NTPC) |
| 100 | L&T | AP-03 | NP-7438-A | NP-8642-A | APNRL |
| 101 | L&T | EN-85 | | NP-8647-A | NEW MELLI(PG) |
| 102 | L&T | EN-86 | | NP-8640-A | NEW MELLI(PG) |
| 103 | L&T | RG-12 | | NP-8734-A | RANGIT(NHPC) |
| 104 | L&T | RG-13 | | NP-8733-A | RANGIT(NHPC) |
| 105 | L&T | RG-14 | | NP-8732-A | RANGIT(NHPC) |
| 106 | L&T | RG-15 | | NP-8736-A | RANGIT(NHPC) |
| 107 | L&T | RG-16 | | NP-8735-A | RANGIT(NHPC) |
| 108 | L&T | BI-28 | | NP-8653-A | SULTANGANJ(BSPHCL) |
| 109 | L&T | BI-29 | | NP-8672-A | SULTANGANJ(BSPHCL) |
| 110 | L&T | EP-18 | NP-7471-A | NP-8660-A | GAYA(PG) |
| 111 | L&T | EP-20 | NP-7407-A | NP-8645-A | ANDAL(DVC) |
| 112 | L&T | ER-47 | NP-6494-A | NP-8738-A | BIRPARA(PG) |
| 113 | L&T | EN-87 | | NP-8727-A | MAITHON(PG) |
| 114 | L&T | EN-88 | | NP-8739-A | MAITHON(PG) |
| 115 | L&T | JS-09 | | NP-8695-A | DUMKA(JUVNL) |
| 116 | L&T | JS-10 | | NP-8774-A | DUMKA(JUVNL) |

3rd Phase : 16 Locations

Annexure-VIII

| S.No | Location | Utility |
|------|---------------------|---------|
| 1 | CHAIBASA(CHB) | PG |
| 2 | RANGPO(RGP) | PG |
| 3 | NEW MELLI (NML) | PG |
| 4 | SAGBARI(SGB) | SIKKIM |
| 5 | GYALSHING(GSH) | SIKKIM |
| 6 | NABINAGAR(NBN) | NTPC |
| 7 | IND-BARATH (IBR) | IPPR |
| 8 | TALCHER SOLAR (TLS) | NTPC |
| 9 | KUDRA(KUD) | BIHAR |
| 10 | RANCHI NEW(RNC) | PG |
| 11 | LAKHISARAI(LKS) | PG |
| 12 | LAKHISARAI(LKK) | BIHAR |
| 13 | JAMUI(JMU) | BIHAR |
| 14 | KISANGANJ (PG) | PG |
| 15 | JINDAL(JITPL) | IPPR |
| 16 | BALIMELA(BLM) | GRIDCO |

List of Time Drifted SEMs in ER

Annexure-IX

| SNO | METER | Sub station | DATE | DCU TIME | METER TIME | DIFF(min) |
|-----|-----------|--------------------|------------|----------|------------|-----------|
| 1 | NP-7425-A | Arah(PG) | 09-01-2015 | 12:27:34 | 12:37:43 | 10 |
| 2 | NP-6007-B | Barhi(DVC) | 09-01-2015 | 13:07:40 | 13:25:30 | 18 |
| 3 | NP-5908-A | Baripada(GRIDCO) | 09-01-2015 | 13:21:42 | 13:32:52 | 11 |
| 4 | NP-5909-A | Baripada(PG) | 09-01-2015 | 13:12:24 | 13:22:51 | 10 |
| 5 | NP-5911-A | Baripada(PG) | 09-01-2015 | 13:20:24 | 13:32:31 | 12 |
| 6 | NP-5912-A | Baripada(PG) | 09-01-2015 | 13:21:35 | 13:32:10 | 11 |
| 7 | NP-5913-A | Baripada(PG) | 09-01-2015 | 13:19:29 | 13:36:04 | 17 |
| 8 | NP-5915-A | Baripada(PG) | 09-01-2015 | 13:18:37 | 13:29:52 | 11 |
| 9 | NP-5916-A | Baripada(PG) | 09-01-2015 | 13:22:30 | 13:33:21 | 11 |
| 10 | NP-5971-A | Baripada(PG) | 09-01-2015 | 13:26:01 | 13:42:50 | 16 |
| 11 | NP-5974-A | Baripada(PG) | 09-01-2015 | 13:27:48 | 13:44:59 | 17 |
| 12 | NP-5975-A | Baripada(PG) | 09-01-2015 | 13:25:09 | 13:42:46 | 17 |
| 13 | NP-5091-A | Binaguri(PG) | 09-01-2015 | 13:31:13 | 13:41:08 | 10 |
| 14 | NP-5882-A | Binaguri(PG) | 09-01-2015 | 09:04:54 | 09:14:13 | 10 |
| 15 | NP-5887-A | Binaguri(PG) | 09-01-2015 | 13:18:05 | 13:28:31 | 10 |
| 16 | NP-5891-A | Binaguri(PG) | 09-01-2015 | 13:03:26 | 13:26:56 | 23 |
| 17 | NP-7917-A | Binaguri(PG) | 09-01-2015 | 13:19:48 | 13:30:09 | 11 |
| 18 | NP-5892-A | Birpara(PG) | 09-01-2015 | 12:56:05 | 13:25:07 | 29 |
| 19 | NP-7536-A | Bolangir(PG) | 06-01-2015 | 11:35:48 | 11:47:42 | 12 |
| 20 | NP-7538-A | Bolangir(PG) | 06-01-2015 | 11:36:35 | 11:47:47 | 11 |
| 21 | NP-5941-A | Budhipadar(GRIDCO) | 09-01-2015 | 12:12:08 | 12:24:06 | 12 |
| 22 | NP-5944-A | Budhipadar(GRIDCO) | 09-01-2015 | 12:13:00 | 12:23:39 | 10 |
| 23 | NP-7434-A | Chandil(JUVNL) | 09-01-2015 | 12:34:44 | 12:45:27 | 11 |
| 24 | NP-7436-A | Chandil(JUVNL) | 09-01-2015 | 12:33:57 | 12:44:22 | 11 |
| 25 | NP-5114-A | Dalkhola(WBSETCL) | 09-01-2015 | 12:58:58 | 13:09:50 | 11 |
| 26 | NP-6098-A | Dehri(BSPHCL) | 09-01-2015 | 13:33:31 | 13:44:36 | 11 |
| 27 | NP-7397-A | Dehri(BSPHCL) | 09-01-2015 | 13:32:44 | 13:42:56 | 10 |
| 28 | NP-7449-A | Dehri(BSPHCL) | 09-01-2015 | 13:31:57 | 13:42:09 | 11 |
| 29 | NP-6048-B | Deogarh(JUVNL) | 09-01-2015 | 11:51:33 | 12:05:33 | 14 |
| 30 | NP-6524-A | DSTPS(DVC) | 09-01-2015 | 12:29:02 | 12:18:37 | -11 |
| 31 | NP-7557-A | Durgapur(pg) | 09-01-2015 | 13:06:09 | 13:17:55 | 11 |
| 32 | NP-7975-A | Durgapur(pg) | 09-01-2015 | 13:03:23 | 13:13:33 | 10 |
| 33 | NP-6025-A | Gangtok(PG) | 08-01-2015 | 19:46:54 | 20:01:21 | 15 |
| 34 | NP-6113-A | Garwa(JUVNL) | 06-01-2015 | 18:14:32 | 18:27:33 | 13 |
| 35 | NP-6009-B | Golera(GRIDCO) | 09-01-2015 | 13:28:21 | 13:45:18 | 17 |
| 36 | NP-5072-A | Jamshedpur(PG) | 09-01-2015 | 13:15:54 | 13:29:20 | 14 |
| 37 | NP-6105-A | Jamshedpur(PG) | 09-01-2015 | 13:15:02 | 13:28:14 | 13 |
| 38 | NP-6106-A | Jamshedpur(PG) | 09-01-2015 | 13:16:46 | 13:30:08 | 14 |
| 39 | NP-6116-A | Jamshedpur(PG) | 09-01-2015 | 13:21:00 | 13:33:58 | 12 |
| 40 | NP-6119-A | Jamshedpur(PG) | 09-01-2015 | 13:19:13 | 13:32:00 | 13 |
| 41 | NP-6120-A | Jamshedpur(PG) | 09-01-2015 | 13:20:08 | 13:34:19 | 14 |
| 42 | NP-7405-A | Jamshedpur(PG) | 09-01-2015 | 13:17:41 | 13:36:00 | 19 |
| 43 | NP-7407-A | Jamshedpur(PG) | 09-01-2015 | 13:18:27 | 13:34:02 | 16 |
| 44 | NP-6110-A | Jamtara(JUVNL) | 09-01-2015 | 13:30:02 | 13:51:14 | 21 |
| 45 | NP-5939-A | Joda(GRIDCO) | 09-01-2015 | 13:11:18 | 13:21:12 | 10 |
| 46 | NP-6075-A | Kahalgaon(BSPHCL) | 09-01-2015 | 12:02:02 | 12:19:03 | 17 |
| 47 | NP-6076-A | Kahalgaon(BSPHCL) | 09-01-2015 | 12:02:54 | 12:21:16 | 19 |
| 48 | NP-6493-A | Kalyaneshwari(DVC) | 09-01-2015 | 11:58:15 | 11:48:13 | -10 |
| 49 | NP-6561-B | Kalyaneshwari(DVC) | 09-01-2015 | 11:59:08 | 11:38:19 | -21 |
| 50 | NP-5065-A | Kanti(BSPHCL) | 09-01-2015 | 13:25:47 | 13:37:56 | 12 |
| 51 | NP-6017-B | Karamnasa(BSPHCL) | 09-01-2015 | 13:31:40 | 13:50:41 | 19 |
| 52 | NP-6117-A | Kendiposi(JUVNL) | 09-01-2015 | 09:00:02 | 09:17:44 | 17 |
| 53 | NP-7546-A | Keonjhar(PG) | 09-01-2015 | 11:37:57 | 11:52:21 | 15 |
| 54 | NP-7547-A | Keonjhar(PG) | 09-01-2015 | 11:38:43 | 11:54:23 | 16 |
| 55 | NP-7548-A | Keonjhar(PG) | 09-01-2015 | 11:37:11 | 11:51:30 | 14 |
| 56 | NP-5833-A | Khagaul(BSPHCL) | 03-01-2015 | 16:27:36 | 16:39:03 | 12 |
| 57 | NP-6085-A | Kishanganj(BSPHCL) | 09-01-2015 | 13:15:54 | 13:31:12 | 16 |
| 58 | NP-5206-A | Maithon(PG) | 09-01-2015 | 13:18:41 | 13:44:07 | 26 |
| 59 | NP-5225-A | Maithon(PG) | 09-01-2015 | 13:12:21 | 13:38:06 | 26 |
| 60 | NP-6453-A | Maithon(PG) | 09-01-2015 | 13:13:17 | 13:03:37 | -10 |
| 61 | NP-7492-A | Maithon(PG) | 09-01-2015 | 13:21:55 | 13:34:04 | 13 |
| 62 | NP-7534-A | Maithon(PG) | 09-01-2015 | 13:21:08 | 13:31:58 | 10 |
| 63 | NP-7535-A | Maithon(PG) | 09-01-2015 | 13:23:29 | 13:35:24 | 12 |

| | | | | | | |
|-----|-----------|--------------------|------------|----------|----------|-----|
| 64 | NP-7550-A | Maithon(PG) | 09-01-2015 | 13:24:16 | 13:35:32 | 11 |
| 65 | NP-7551-A | Maithon(PG) | 09-01-2015 | 13:25:03 | 13:35:54 | 10 |
| 66 | NP-7902-A | Maithon(PG) | 09-01-2015 | 13:22:42 | 13:32:15 | 10 |
| 67 | NP-7903-A | Maithon(PG) | 09-01-2015 | 13:20:21 | 13:30:28 | 10 |
| 68 | NP-7904-A | Maithon(PG) | 09-01-2015 | 13:19:34 | 13:29:35 | 10 |
| 69 | NP-6011-B | Manique(DVC) | 09-01-2015 | 13:15:02 | 13:44:22 | 29 |
| 70 | NP-5849-A | Melli(SIIKIIM) | 09-01-2015 | 13:15:02 | 13:36:27 | 21 |
| 71 | NP-5983-A | Mendhasal(GRIDCO) | 09-01-2015 | 13:30:02 | 13:49:26 | 19 |
| 72 | NP-5953-A | Nbu(WBSETCL) | 09-01-2015 | 13:15:02 | 13:36:02 | 21 |
| 73 | NP-6006-B | Patratu(DVC) | 09-01-2015 | 12:53:34 | 13:03:55 | 10 |
| 74 | NP-6003-B | Patratu(JUVNL) | 09-01-2015 | 13:05:33 | 13:18:49 | 13 |
| 75 | NP-6004-B | Patratu(JUVNL) | 09-01-2015 | 13:04:40 | 13:22:42 | 18 |
| 76 | NP-6005-B | Patratu(JUVNL) | 09-01-2015 | 13:03:47 | 13:21:34 | 18 |
| 77 | NP-5236-A | Purnea(BSPHCL) | 09-01-2015 | 13:15:02 | 13:33:23 | 18 |
| 78 | NP-6083-A | Purnea(PG) | 09-01-2015 | 12:55:33 | 13:05:21 | 10 |
| 79 | NP-7419-A | Purnea(PG) | 09-01-2015 | 12:58:12 | 13:10:11 | 12 |
| 80 | NP-7420-A | Purnea(PG) | 09-01-2015 | 12:57:25 | 13:09:10 | 12 |
| 81 | NP-7421-A | Purnea(PG) | 09-01-2015 | 13:20:46 | 13:31:26 | 11 |
| 82 | NP-7422-A | Purnea(PG) | 09-01-2015 | 13:19:59 | 13:31:51 | 12 |
| 83 | NP-7423-A | Purnea(PG) | 09-01-2015 | 13:32:23 | 13:44:39 | 12 |
| 84 | NP-7424-A | Purnea(PG) | 09-01-2015 | 13:31:36 | 13:42:38 | 11 |
| 85 | NP-7829-A | Purnea(PG) | 09-01-2015 | 13:30:02 | 13:40:01 | 10 |
| 86 | NP-7894-A | Purnea(PG) | 09-01-2015 | 13:21:33 | 13:32:20 | 11 |
| 87 | NP-5917-A | Rammam(WB) | 09-01-2015 | 13:15:02 | 13:34:58 | 19 |
| 88 | NP-5918-A | Rangit(NHPC) | 09-01-2015 | 12:57:59 | 13:09:25 | 12 |
| 89 | NP-5930-A | Rourkela(PG) | 09-01-2015 | 13:11:24 | 13:23:59 | 12 |
| 90 | NP-5931-A | Rourkela(PG) | 09-01-2015 | 09:17:31 | 09:33:42 | 16 |
| 91 | NP-5933-A | Rourkela(PG) | 09-01-2015 | 09:13:13 | 09:23:14 | 10 |
| 92 | NP-6074-A | Sabour(BSPHCL) | 01-01-2015 | 21:03:38 | 21:17:28 | 14 |
| 93 | NP-5889-A | Siliguri(PG) | 09-01-2015 | 11:45:58 | 11:57:39 | 12 |
| 94 | NP-5946-A | Siliguri(PG) | 09-01-2015 | 11:46:53 | 11:58:33 | 12 |
| 95 | NP-5947-A | Siliguri(PG) | 09-01-2015 | 11:47:48 | 11:58:16 | 11 |
| 96 | NP-5949-A | Siliguri(PG) | 09-01-2015 | 11:44:11 | 11:54:40 | 10 |
| 97 | NP-5950-A | Siliguri(PG) | 09-01-2015 | 11:48:43 | 12:00:42 | 12 |
| 98 | NP-5951-A | Siliguri(PG) | 09-01-2015 | 11:45:03 | 11:56:54 | 11 |
| 99 | NP-7929-A | Siliguri(PG) | 09-01-2015 | 11:43:19 | 11:55:43 | 12 |
| 100 | NP-7979-A | Siliguri(PG) | 09-01-2015 | 11:49:35 | 12:01:55 | 12 |
| 101 | NP-6013-B | Sonnagar(BSPHCL) | 09-01-2015 | 13:27:39 | 13:43:48 | 16 |
| 102 | NP-6015-B | Sonnagar(BSPHCL) | 09-01-2015 | 13:25:53 | 13:42:37 | 17 |
| 103 | NP-7372-A | Sterlite | 09-01-2015 | 13:20:48 | 13:36:59 | 16 |
| 104 | NP-7571-A | Sterlite | 09-01-2015 | 13:20:02 | 13:32:39 | 12 |
| 105 | NP-7572-A | Sterlite | 09-01-2015 | 13:21:34 | 13:35:07 | 14 |
| 106 | NP-7573-A | Sterlite | 09-01-2015 | 13:22:21 | 13:34:59 | 12 |
| 107 | NP-6019-B | Sultanganj(BSPHCL) | 09-01-2015 | 11:53:21 | 12:10:07 | 17 |
| 108 | NP-5934-A | Tarkera(GRIDCO) | 09-01-2015 | 12:18:37 | 12:31:03 | 13 |
| 109 | NP-6115-A | Tenughat(JUVNL) | 09-01-2015 | 13:32:07 | 13:43:39 | 11 |
| 110 | NP-6564-B | Waria(DVC) | 09-01-2015 | 13:25:40 | 13:15:46 | -10 |
| 111 | NP-7569-A | Waria(DVC) | 09-01-2015 | 13:26:38 | 13:37:48 | 11 |
| 112 | NP-6024-B | | 09-01-2015 | 13:26:16 | 13:40:09 | 14 |

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)



27, शहीद नगर, भुवनेश्वर (ओडिशा) - 751 007
दुरभाष: 2548586, 2548174, फैक्स: 0674-2548586
27, Saheed Nagar, Bhubaneswar (Odisha) - 751 007
Tel.- 2548586, 2548174, Fax. No. 0674-2548586

Ref. No: ER-II/ODP/AM/

Date: 18.11.2015

To

The Member Secretary,
Eastern Region Power Committee
14, Golf Club Road, Tollygunj,
Kolkata-700033

Sub: Tentative Programme for replacement of Porcelain insulators with Polymer insulators in the transmission lines of POWERGRID, Odisha.

Dear Sir,

Attached please find here with the tentative schedule for replacement of porcelain insulators with polymer insulators in the transmission lines of POWERGRID, Odisha. This is for your kind information please.

Thanking You.

Yours faithfully,

21/11/15
18/11/15
(A. K. Behera)
DGM(AM), Odisha

TENTATIVE SCHEDULE OF REPLACEMENT OF PORCELAIN INSULATORS WITH POLYMER INSULATORS IN THE LINES OF POWERGRID, ODISHA.

| Sl. No. | Name of Line | Line Length (Km) | Voltage (kV) | Programme for Replacement |
|---------|--|------------------|--------------|---------------------------|
| 1 | 400kV Rourkela – Raigarh I & II D/C Line | 187 | 400 | Dec'15 – Mar'16 |
| 2 | 400kV Rourkela – Raigarh III & IV D/C Line | 215 | 400 | Dec'15 – Mar'16 |
| 3 | 400kV Jeypore – Indravati S/C Line | 74.3 | 400 | Dec'15 - Apr'16 |
| 4 | 400kV Jeypore – Bolangir S/C Line | 309.5 | 400 | Dec'15 - Apr'16 |
| 5 | 400kV Rengali – Indravati S/C Line | 356 | 400 | Jan'16 – May'16 |
| 6 | 400kV Talcher- Rengali D/C Line | 25 | 400 | |
| 7 | 400kV Talcher – Rourkela D/C Line | 171 | 400 | |
| 8 | 400kV Angul – Bolangir S/C Line | 299 | 400 | |
| 9 | 400kV LILO at Bolangir | 22 | 400 | Jan'16 – Jan'17 |
| 10 | ± 500kV HVDC Talcher – Kolar Line | 300 | 500 | |

30/11/15

| Tie line of Bihar with neighbouring State/utilities | | | | | |
|---|---------------------|---------|-------------------------------|-----------------------|--------------------------------|
| Sl no. | Tie-line | State-I | State-II | Flow of Power Quantam | Remarks |
| 1 | 132 KV level | | | | |
| i | Karmnasha-Shahpuri | Bihar | UP | Less than 50% | Sometimes on Emergency |
| ii | Karmnasha-Chandauli | Bihar | UP | Less than 50% | Sometimes on Emergency |
| iii | Sonenagar-Rihand | Bihar | UP | Less than 50% | Sometimes on Emergency |
| iv | Gharwa-Sonenagar | Bihar | Jharkhand | More than 50% | |
| v | Sabour-Lalmatia | Bihar | Jharkhand | Less than 50% | Sometimes. Drawn by Jharkhand. |
| vi | Biharsharif-Barhi | Bihar | Jharkhand (DVC) | More than 50% | |
| vii | Sultanganj-Deoghar | Bihar | Jharkhand | Less than 50% | Sometimes on Emergency |
| 2 | 220 KV level | | | | |
| i | TTPS-Bihasharif | Bihar | Jharkhand | More than 50% | |

Bihar Tr system connected with:-

1. PG CL Sub-station:- (i) 400/220kV → Purnea, Muzaffarpur, Faisouli, Biharsharif, Patna, Gaya

(ii) 400/132 → Banka, Lakhisarai

(iii) 220/132 → Ara, Purnea

one 132KV two (50) to line

2. KHSTPS (NTPC)

3. Jharkhand —

4. DVC —

5. UP. —

} Details given above

Date of Commercial Operation(DOCO) of the Asstes

| A | Transmission System for Phase-I Generation Projects in Jharkhand & West Bengal Part-A2 | DOCO | Approved Cost | Standing Committee Reference | RPC Meeting Reference | Sharing of Charges |
|----------|---|-------------|---|--|--|---------------------------------------|
| 01 | 765 kV S/C Ranchi(New) – Dharamjaygarh line along with 3x110 MVAR Reactor at Dharamjaygarh along-with associated bays | 26/12/15 | Rs.2422.66 Cr.(including IDC of Rs. 140.70 Cr.). | SCM meeting of ER on 20.09.10. | 15th ERPC meeting on 28.09.10 & 16th ERPC Meeting on 18.12.10 | As per New Sharing methodology of PoC |
| B | Eastern Region Strengthening Scheme-IX. | DOCO | Approved Cost | Standing Committee Reference | RPC Meeting Reference | Sharing of Charges |
| 01 | 160 MVA 220/132 Kv ICT along-with associated bays at Ara 220/132Kv substation | 02/01/16 | 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 |
| 02 | 500 MVA 400/220 kV ICT along-with associated bays at Muzaffarpur 400/220 Kv substation | 06/01/16 | | | | |
| C | Eastern Region Strengthening Scheme-III. | DOCO | Approved Cost | Standing Committee Reference | RPC Meeting Reference | Sharing of Charges |
| 01 | LILO of 2nd Circuit of 400kV Jamshedpur - Rourkela line at Chaibasa9routed through Chaibasa but presently not bussed at Chaibasa) | 02/11/15 | 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 | 80 MVAR Bus Reactor along-with associated bay at Chaibasa S/S | 26/11/15 | | | | |
| D | Eastern Region Strengthening Scheme-VIII. | DOCO | Approved Cost | Standing Committee Reference | RPC Meeting Reference | Sharing of Charges |
| 01 | One no of 125MVAR Reactor along-withassociated bay at Jeypore Substation | 02/12/15 | Rs.73.48 Cr.(including IDC of Rs.3.61 Cr.). | SCM meeting of ER on 08.02.12. | 21st ERPC Meeting on 20.04.12 | As per New Sharing methodology of PoC |
| E | Eastern Region Strengthening Scheme-XII. | DOCO | Approved Cost | Standing Committee Reference | RPC Meeting Reference | Sharing of Charges |
| 01 | Replacement of existing 100 MVA, 220/132 ICT with 1x160 MVA, 220/132 kV ICT at 220/132 kV Birpara S/S along with necessary bay eqpt/ protection system at Birpara S/S. | 01/01/16 | Rs.522.29 Cr.(including IDC of Rs.33.24 Cr.). | SCM meeting of ER on 27.08.13. | 25th ERPC Meeting on 21.09.13 | As per New Sharing methodology of PoC |
| F | Split Bus arrangment for various substation in Eastern Region | DOCO | Approved Cost | Standing Committee Reference | RPC Meeting Reference | Sharing of Charges |
| 01 | Split bus arrangement at Durgapur substation under Split bus arrangement at various substations in ER | 14/10/15 | Rs.135.16 Cr.(including IDC of Rs.5.14 Cr.). | SCM meeting of ER on 20.09.10. | 15th ERPC meeting on 28.09.10 | As per New Sharing methodology of PoC |
| 02 | Split bus arrangement at Maithon substation under Split bus arrangement at various substations in ER | 17/01/16 | | | | |
| G | Transmision system for transfer of Power from generation projects in Sikkim to NR/WR(Part B) | DOCO | Approved Cost | Standing Committee Reference | RPC Meeting Reference | Sharing of Charges |
| 01 | 1 no 31.5 MVAR Bus Reactor (1st) at New Melli and associated bay | 31/01/16 | Rs.1585.12 Cr.(including IDC of Rs.101.83 Cr.). | 27th SCM meeting of NR on 30.05.09 & 29th SCM of WR on 16.09.09. | 16th ERPC Meeting on 18.12.10 | As per New Sharing methodology of PoC |
| H | Transmission System for Phase-I Generation Projects I Orissa Part-A | DOCO | Approved Cost | Standing Committee Reference | RPC Meeting Reference | Sharing of Charges |
| 01 | 1 No of 765/400 KV 3X500 MVA Transformer (ICT-III) at Angul Pooling Stn. Associated bays | 25/01/16 | Rs.2074.86 Cr.(including IDC of Rs.128.20 Cr.). | SCM 14/09/2009 at Bhubaneswar & 20/09/2010 at NRPC New Delhi | 13th ERPC meeting dated 26/03/10 at Kolkata & 14th ERPC meeting on 11/06/2010 at Manali | As per New Sharing methodology of PoC |
| 02 | 765 kV S/C Angul- Sundargarh (line-I) TL and its bays alongwith 1 no (3X80) MVAR Switchable line reactor at Angul & 1 no (3X80) MVAR line reactor at Sundargarh along with bays | 27/01/16 | | | | |
| I | ULDC Microwave link & Wide Band Communication Network | DOCO | Approved Cost | Standing Committee Reference | RPC Meeting Reference | Sharing of Charges |
| 01 | 5 nos. OPGW links under Central Sector in Eastern Region | 05/01/16 | - | - | - | - |
| J | Expansion/ Upgradation of SCADA/ EMS System of SLDCs of DVC, BSPTCL, JUSNL & Sikkim. | DOCO | Approved Cost | Standing Committee Reference | RPC Meeting Reference | Sharing of Charges |
| 01 | Expansion/ Upgradation of SCADA/ EMS System of SLDCs of DVC, BSPTCL, JUSNL & Sikkim. | 08/01/16 | - | - | - | - |