



# **MINUTES OF 44<sup>th</sup> CCM MEETING**

**Date: 07.07.2021  
Eastern Regional Power Committee  
14, Golf Club Road, Tollygunge  
Kolkata: 700033**

## **EASTERN REGIONAL POWER COMMITTEE**

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**MINUTES OF 44<sup>th</sup> COMMERCIAL SUB-COMMITTEE MEETING OF ERPC HELD ON  
07.07.2021 (WEDNESDAY)**

**AT 11:00 HRS THROUGH ONLINE MICROSOFT TEAMS PLATFORM**

*List of participants is placed at Annexure-P*

**ITEM No.A1:Confirmation of the minutes of the 43rd Commercial Sub-Committee meeting held on 21.09.2020.**

The minutes of the 43<sup>rd</sup> Commercial Committee meeting were uploaded on ERPC website. No request for amendment has been received by ERPC Secretariat.

Members may confirm the minutes of the 43<sup>rd</sup> Commercial Sub Committee Meeting.

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

*Members confirmed the minutes of the 43<sup>rd</sup> Commercial Sub Committee Meeting.*

## **PART B: ITEMS FOR DISCUSSION**

**ITEM NO. B1: Brief presentation on Market Based Economic Despatch (MBED)**

The Ministry of Power (MoP) has issued a discussion paper on Market-based economic dispatch (MBED) vide order No.23/162020/-R&R dated 01<sup>st</sup> June, 2021. Here it is proposed a mechanism to bring down the cost of power procurement for Distribution companies (DISCOMs) and the Consumers. The MoP has sought the Comments/Suggestions from the Stakeholders by 15<sup>th</sup> July, 2021.

ERPC secretariat shall give a brief presentation to understand the concept of the proposed MBED framework.

### **Deliberation in the meeting**

*ERPC Secretariat gave a brief presentation on Market Based Economic Despatch (MBED) as proposed in the discussion paper of Ministry of Power. It was highlighted that after implementation of MBED, the existing mechanism of scheduling of power and subsequent payment settlement would be significantly transformed. The presentation is enclosed at Annexure-H.*

*Commercial Sub-Committee advised all the constituents to have a thorough study on the proposed discussion paper on MBED and forward their comments and observations to the Ministry of Power by 17th July,2021.*

*All the constituents were advised to get themselves prepared for the implementation of 1<sup>st</sup> Phase of MBED regulations as proposed w.e.f 1<sup>st</sup> April 2022.*

**ITEM NO. B2: Scheduling of Chuzachen HEP & 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

***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 consider 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.

In 135<sup>th</sup> OCC it was decided that related issues of control area jurisdiction, scheduling, etc. may be discussed in a separate meeting. A meeting was also held in this regard with ERPC and ERLDC on 04.09.2017.

In 36<sup>th</sup> TCC, Sikkim agreed to issue the NoC for scheduling of Tashiding HEP by ERLDC. It was also decided in the 36<sup>th</sup> TCC/ERPC meeting that Tashiding would approach CERC and obtain the 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.

In 37<sup>th</sup> CCM, 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.***

38<sup>th</sup> TCC further advised Chuzachen and Tashiding HEP to file petition with Hon’ble CERC for obtaining NOC for scheduling of generation by ERLDC. The accounting of power shall conform to the methodology listed in the agenda.

Tashiding & Chuzachen may update the latest Status.

### Deliberation in the meeting

*Chuzachen representative informed that they are under the process of filing the petition with CERC and the same will be done by 17<sup>th</sup> July 2021. Further, he added that due to Covid-19 pandemic and nationwide lockdown they could not file the petition on time.*

*Tashiding representative informed that they would also file the petition with CERC by 14<sup>th</sup> July 2021.*

*The Committee expressed serious concern over the issue and advised Chuzachen and Tashiding to intimate ERPC and ERLDC after filing the petition.*

*It was decided to place this agenda in the forthcoming TCC meeting.*

### **ITEM NO. B3: Renewal of contract of AMR of Phase-1 & 2 including DCU replacement in Eastern Region.**

Existing AMC contract period for all installed SEMs of Phase-1 and Phase-2 including AMR has expired on 30-Jun-2020. Total 656 SEMs and 120 locations (129 DCU) are out of AMC scope since 30.06.2020. Currently, maximum SEMs are out of AMC support (66% SEM, out of AMC). On a special request from PGCIL, TCS is continuing the AMC support for all 656 SEMs till now but further contract is required to be renewed.

Considering the lockdown period since the end of March-2020, maximum possible support has been provided by TCS and there is no disruption in weekly data availability of SEM.

TCS has submitted a techno-commercial proposal for renewal of their AMC Contract for another 5 years. Proposal value is total 4.98 Cr. This proposal includes 5 years of comprehensive AMC support for all 656 meters and 129 DCUs including DCU replacement in 60 Locations. As currently there is no active contract present with TCS for the AMC support, placing of AMC renewal LOA needs to be completed on priority basis. Based on the offer price submitted by TCS, now it is proposed to finalize the AMC contract on single tender basis with M/S. TCS.

#### Brief Scope of Work:

1. Comprehensive AMC support for the meters (656 SEM and 129 DCU) which have been installed in AMR Phase1 and Phase2.
2. AMC support includes replacement of Hardware which are installed at various Sub Stations (like DCU, Cables, PVC pipes, MOXA converters etc.). Hardware replacement will be done as and when required.

3. As all DCU have already covered the service period (05 years plus), DCU replacement will be required. 60 numbers of DCUs have been considered for replacement in this proposal. (By considering the present scenario and future planning for faulty DCU replacement).
4. If more DCUs are required, then separate proposal will be submitted for the DCU replacement.
5. Connection of replaced meters will be done.

In view of the above, the proposed value of AMC contract is ₹ 4.98 Cr which includes

- 5 years of comprehensive AMC support for all 656 meters and
- 129 DCUs including DCU replacement in 60 Locations

In 170th OCC in-principle agreed for renewal of contract for all installed SEMs of Phase-1 and 2 including AMR since it is very much required in the interest of grid maintenance.

In 43rd CCM Powergrid representative informed that the existing contract period for Support of AMR/AMC of Phase-1 and Phase-2 has been completed on 30-Jun-2020. All 656 SEM and 120 locations (129 DCU) are out of AMC scope since 30.06.2020. The sub-station wise AMC details are in **Annexure-XIII**.

Further, Powergrid added that offered price of AMC amounting ₹ 4.98 Cr maybe negotiated and the final price would be intimated to ERPC Secretariat.

Members of Commercial Sub-Committee recommended for financial approval and also advised POWERGRID to place the revised value of AMC contract after negotiation before ERPC Secretariat.

43<sup>rd</sup> TCC/ERPC agreed to the proposal of POWERGRID for AMC contract of

- 1) 5 years of comprehensive AMC support for AMR of 656 meters and
- 2) AMC support for 129 DCUs including DCU replacement in 60 Locations.

43<sup>rd</sup> TCC advised POWERGRID to pursue with the concerned vendor proactively and intimate the final negotiated cost in the forthcoming ERPC meeting. 43<sup>rd</sup> ERPC accorded in-principal approval for the above AMC contract as per the decision of TCC and directed Powergrid to expedite the price negotiation.

POWERGRID may further update the latest status.

### **Deliberation in the meeting**

***PowerGrid representative informed that the LOA for the AMC contract has already been placed with M/s TCS and the same is valid till 31<sup>st</sup> March 2026.***

*The value of the contract has been negotiated to ₹ 4.77 crores (excluding GST) from the pre-negotiated value of ₹ 4.98 crores (excluding GST). Hence, the total value of the AMC contract is ₹ 5,63,01,576/- including GST.*

**ITEM NO. B4: Procurement of new SEMs in ER.**

As per decision of 42<sup>nd</sup> TCC/ERPC meeting and 41<sup>st</sup> CCM, the testing and calibration of old and highly-time drifted SEMs are to be carried out by Powergrid and accordingly the priority list of 314 SEM's is prepared by ERLDC and shared it in 42<sup>nd</sup> TCC meeting.

In 168<sup>th</sup> OCC meeting, Powergrid informed that the matter regarding testing & calibration and time drifting has been taken up with concerned vendors involved in testing and calibration. Powergrid also informed that the Vendors are ready for doing the testing however they are not ready to set time drifting as it is only possible through OEM i.e., L&T. The matter has also been taken up with OEM (M/s L&T), who have confirmed that the heavily time drifted meter shall require to be sent to factory for time correction. Powergrid informed in 168<sup>th</sup> OCC meeting that time correction of old meters is not possible. Powergrid further added that testing and calibration of old SEMs would cost around Rs 9000 / unit whereas cost of new SEM would be around Rs 12000/ unit.

In 168<sup>th</sup> OCC meeting, it was decided that since time correction is not possible it would be better to buy new SEMs instead of going for calibration & testing also advised ERLDC to place the requirement of SEMs in next OCC meeting. Accordingly, ERLDC proposed to procure 300 energy meters and the details of the same is already shared in 42<sup>nd</sup> TCC meeting.

In 169<sup>th</sup> OCC, Powergrid informed that they have already placed the order for 300 energy meters as a repeat order. ERLDC also informed that all the energy meters will be consumed in 2020-21 and there would be a requirement of additional 300 energy meters approximately to replace the old and time drifted SEMs. Powergrid added that still there is a scope to place the repeat order for 180 SEMs in the existing contract.

*43<sup>rd</sup> CCM agreed in principle to the proposal for procurement of additional 120 SEMs as per requirement. In 43<sup>rd</sup> TCC/ERPC, POWERGRID informed that contract has been awarded for procurement of additional 300 SEMs as per terms and condition of existing contract in Jan'2021 and delivery for the same is expected within 6 months. TCC accorded post facto approval for procurement of 300 nos. of SEMs at estimated cost of Rs. 36 Lakhs.*

Powergrid may update the status of present stock of meters as well delivery of newly placed meters.

**Deliberation in the meeting**

*PowerGrid representative informed that the second lot of 300 SEM has already been delivered.*

*At present, there are a total of 475 meters in the stock in Eastern Region, out of which PowerGrid (ER-I) is having 250 meters and PowerGrid (ER-II) is having is 225 meters.*

**ITEM NO. B5: Implementation of 4<sup>th</sup> Phase AMR including requirement of AMR data for SCADA comparison.**

Presently 150 Locations with 998 meters are connected through AMR system in ER. ERLDC is receiving data from 126 locations out of total 150 locations through AMR. The status of data receipt from the locations as on 21.06.2021 is as below:

<b>Status Report of PGCIL AMR AMC (Phase I , II &amp; III)</b>	
<b>Summary</b>	
Total Substation	150
Communicating Sub Station	126
Non-communicating Sub Station	24
<b>Total Meter</b>	
Total Meter	998
Communicating meter	926
Non-communicating Meter	72

There have been issues with the GPRS communication/DCU/Meter replacement for around 24 locations having 72 meters as mentioned above. The details of Non-communication substations along with probable reason are attached in **Annexure-XI**.

In 39<sup>th</sup> TCC/ERPC Meeting, it was agreed to implement 4<sup>th</sup> Phase AMR at a cost of ₹ 1.75 Cr in place of ₹ 93.56 Lakhs approved earlier considering the added requirement of metres, Locations, additional functionality, AMCs etc. ERPC suggested that Powergrid should ensure reliability in data transmission by implementing LAN connectivity through OPGC Network wherever feasible.

In 153<sup>rd</sup> OCC, Powergrid informed that Works had been awarded to M/s TCS on 23<sup>rd</sup> December 2018 at a cost of ₹ 1.69 Cr after negotiation. Powergrid further added that work would be completed by October 2019.

List of 256 Meters and 29 New Locations for 4<sup>th</sup> Phase AMR is enclosed in **Annexure-XII**.

In 39<sup>th</sup> CCM, Powergrid informed that LOA for 4<sup>th</sup> phase has been placed. Powergrid further informed that Phase wise expiry of AMC is commencing from June 2019 onwards and Comprehensive AMC plan is being prepared and the same shall be put up separately.

Regarding data integration for SCADA, M/s TCS has informed the status as on 21.06.19 as below:

- Development work as per the original requirement of ERLDC SCADA team has been completed.
- AMR database has been updated as per the latest master file shared by ERLDC.
- Testing and data validation from ERLDC-SCADA team is going on.

In 180<sup>th</sup> OCC, Powergrid updated the status of AMR 4<sup>th</sup> Phase and informed that

- **101 new meters out of 200 meters**
- **2 DCU out of 25 DCU as per LOA has been integrated.**

POWERGRID may further update the latest status of implementation and tentative date of completion of the work.

### **Deliberation in the meeting**

*PowerGrid representative informed that currently in the 4<sup>th</sup> Phase AMR implementation project, 127 SEMs out of 200 SEMs and 2 DCUs out of 25 DCUs have been integrated in the Eastern Region.*

*Further, he added that the 4<sup>th</sup> Phase AMR integration work which commenced in March,2020 would be completed by Septemebr,2021.*

*Commercial Sub-Committee advised PowerGrid to expedite the work at the earliest. PowerGrid representative further raised the issue of difficulties being faced by TCS Engineers to get the onsite access of state substations.*

*Commercial Sub-Committee advised the states to cooperate on this issue. PowerGrid was advised to properly coordinate with states before sending their Engineers to the site.*

### **ITEM NO. B6: Replacement of GPRS communication with Optical Fibre for AMR.**

In ER, approximately 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 02 locations (Subhashgram-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.

In 40<sup>th</sup> CCM, POWERGRID requests all the constituents to share the available optical fibre network connectivity for further configuration to Optical connectivity. This will also help to



reduce the maintenance cost of AMR, as recurring cost towards SIM cards may be avoided in that case. POWERGRID also informed that optical fiber for AMR has been implemented for 38 locations out of 40 and rest of the locations would be completed by August' 19.

In 41<sup>st</sup> CCM, BSPTCL representative informed the required details of optical fiber network connectivity have been shared to POWERGRID for configuration AMR Optical connectivity. POWERGRID informed that they have not received any response from other constituents on this matter. All the constituents were advised to explore the possibility of Optical fibre network connectivity instead of GPRS for communication AMR system as this will significantly enhance the reliability of the system. The matter was referred to forthcoming TCC meeting for concurrence.

In 42<sup>nd</sup> TCC/ERPC, TCC advised all the other constituents to share the details of optical fibre in Test Meeting scheduled to be held on 20<sup>th</sup> December 2019, so that Powergrid could carry out the configuration of AMR connectivity. In 42<sup>nd</sup> & 43<sup>rd</sup> CCM, all other constituents were again advised to explore the possibility of Optical fibre network connectivity instead of GPRS for communication with AMR system as this will significantly enhance the reliability of the system.

M/s TCS has confirmed that the grid substations of PowerGrid, NTPC, NHPC, DVC total 40 locations out of 40 have been connected with LAN and successfully communicating to AMR system. The list of grid substations is enclosed in **Annexure-XIV**.

In 43<sup>rd</sup> TCC/ERPC, POWERGRID informed that necessary details from all the State utilities except for Sikkim have been received for 69 locations. POWERGRID was requested to share the details of 69 locations to ERPC.

TCC advised Sikkim to share the necessary details at the earliest. Further 43<sup>rd</sup> TCC/ERPC also approved the proposal of replacement of GPRS communication with Optical Fiber for AMR with estimated cost of Rs. 10.73 lakhs (excl. GST) for 69 locations (except Sikkim).

Powergrid/Sikkim may please further update the latest status.

### **Deliberation in the meeting**

***PowerGrid representative informed that they have received the necessary details and the list of 69 locations (except Sikkim) from all the states of Eastern Region for replacement of GPRS communication with Optical Fiber for reporting to AMR. The estimated cost of Rs. 10.73 lakh (excl. GST) was approved in the 43<sup>rd</sup> TCC/ERPC for 69 locations (except Sikkim)***

***He further added that the LAN connectivity was initially envisaged for 40 locations of grid substations of PowerGrid, NTPC, NHPC, DVC. After replacing the GPRS communication***

*with Optical Fiber, these substations are successfully and reliably reporting to AMR system. The list of grid substations is enclosed in Annexure-XIV.*

*PowerGrid further informed that they have already started the work experimentally at Jeerat S/s and are initially planning to complete the work in the locations of West Bengal and nearby areas of Odisha and Jharkhand in the month of July,2021. Subsequently, the locations in DVC and Bihar would be completed by the end of August,2021.*

*Further, the Committee expressed serious concern over non-receipt of location details from Sikkim despite repeated persuasion from various forum of ERPC. Sikkim representative agreed to send the details by 15<sup>th</sup> July,2021. The Committee advised PowerGrid to co-ordinate with Sikkim on this issue.*

*PowerGrid was asked to send the final list of locations after including the locations from Sikkim to ERPC and ERLDC. The status of the work will be reviewed in the monthly OCC meeting.*

#### **ITEM NO. B7: Meter reporting & recording related issues -ERLDC Agenda**

##### **B7.1: Non-Receipt/Late Receipt of SEM data from various locations.**

As per IEGC (effective from 3.5.2010) Sub-clause-22 of Clause-6.4 (demarcation of responsibilities), all concerned utilities in whose premise's 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. In 40<sup>th</sup> CCM, all were requested to adhere to the schedule as per IEGC.

- i) Late receipt of SEM data:** ERLDC is receiving the weekly SEM data by Tuesday noon from maximum locations. However, data is received on Wednesday or later from BSPTCL (Kishanganj, Motipur, Baisi); GRIDCO (Mendhasal, Bangripasi, Sadeipali, New Dubri); PGCIL(Patna)
- ii) Non-receipt:** WBSETCL (North Bengal, Gazole, Alipurduar, Rammam, Kalimpong, Jeerat) are not getting energy meter data since lock-down. Sikkim (Ravangla), Bihar (Khagaria)

PGCIL, WBSETCL, GRIDCO, BSPTCL & Sikkim may update the status.

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

*North Bihar representative informed that they would take up with BSPTCL to resolve the matter at the earliest.*

*Minutes of 44<sup>th</sup> CCM*

*GRIDCO representative informed that they would take up the matter with SLDC Odisha and assured that meter data would be sent by Tuesday.*

*PowerGrid ER-I representative assured that they would send the energy meter data by Tuesday.*

*ERLDC informed that they have not received the data from Bihar (Khagaria) since July 2020. In this regard, Bihar was advised to take up this matter on priority basis and get it resolved.*

*The Commercial Sub-Committee advised all the constituents to submit the SEM data within the stipulated timeframe to facilitate timely issuance of various commercial accounts.*

### **iii) Ara, Dehri & Sipara BSPHCL**

Ara (BSPTCL), Dehri (BSPTCL), FATUA (BSPHCL), JAGDISHPUR (BSPHCL), 132 kV Rajgih (BSPHCL), 132 kV Nalanda (BSPHCL) are not being received by ERLDC due to AMR related Issue. SEM data of the above locations were downloaded by ERLDC from AMR. Now, due to AMR problem at BSPTCL s/s was requested to send the data of meter from above locations by downloading at their end till restoration of AMR. M/s TCS has informed verbally that due to network failure, data is not available with AMR.

In 42nd CCM POWERGRID informed that the AMR related issues of Ara & Dehri would be resolved at the earliest.

In 43<sup>rd</sup> CCM, BSPHCL representative assured that the meter reading from above locations would be collected and forwarded in timely manner till the restoration of AMR system. POWERGRID had informed that the AMR related issues of Bihar system would be resolved by the end of September, 2020. However, problem for above location still exists.

BSPHCL may respond and POWERGRID may update the program of AMR rectification.

### **Deliberation in the meeting**

*ERLDC representative informed that the data from Sipara end is received intermittently. The data from Ara, Dehri, Fatua and Jagdishpur locations are not being received at all due to AMR related issues.*

*PowerGrid representative informed that these locations are included in the list provided by the Bihar for replacement of GPRS communication with LAN connectivity. Therefore, the meter related and data reporting issues would be resolved after carrying out the LAN connectivity for the said locations.*

*ERLDC requested the concerned constituents to send the data manually intime till the network issues are resolved.*

*The Commercial Sub-Committee advised PowerGrid to expedite the work of replacement of GPRS communication with LAN connectivity for states to prevent this kind of meter reporting issues.*

**B7.2: Non-Receipt of Gelephu and Motunga end Meter data**

Gelephu and Motunga end Meter data is used for Kurichu generation calculation and also ER-NER energy calculation. ERLDC is not receiving the data from Bhutan end since Sep'20. Due to non-receipt of SEM data from Bhutan end, data validation of Salakati & Rangia is not being done. The accounting process is fully dependent on one end meter data.

Bhutan may update

**Deliberation in the meeting**

*Bhutan representative informed that the data from Gelephu and Motunga could not be downloaded due to the problem in the downloading cable of those L&T meters.*

*PowerGrid representative informed that it is advisable to replace the L&T make meters with the Genus meters as it is difficult to get the maintenance support from L&T currently. Further, PowerGrid agreed to deliver the 2 no Genus meters to Bhutan. Bhutan representative was requested to collect the meters from PowerGrid and get them installed at respective locations.*

*The Committee advised Powergrid to co-ordinate with Bhutan and resolve the issue at the earliest.*

**B7.3: Replacement of Meters due to time drift.**

Few L&T make main meters installed at different locations of utilities which are heavily time drifted and affect the accounting process. It is very difficult to correct the time drift of L&T makes meters due lack of support service from L&T side and also a time taking job to correct the meter fully. In view of above, it is proposed to replace at all drifted L&T make meters with Genus makes meter as enclosed in **Annexure- X**.

Constituents may replace the meter at the earliest and update the meter details with ERLDC. POWERGRID is requested to co-ordinate to complete the replacement.

**Deliberation in the meeting**

*ERLDC representative informed that the list of meters enclosed at Annexure-X are time drifted meters and all are main meters of L&T make. Moreover, some of them are heavily time drifted in the range of 20-25 min which significantly affect the accounting process.*

*PowerGrid representative informed that it is very difficult to correct the time drift of L&T makes meters due lack of support service from L&T side and also a time taking job to correct the meter completely.*

*After detailed deliberation and in consideration of significance of main meters, it was decided that all the time drifted meters enclosed at Annexure-X shall be replaced with the existing stock of Genus meters available with PowerGrid.*

*Further, it was informed that the new Genus meter would be provided only when the existing time drifted meter would be handed over by the respective constituent to PowerGrid.*

*PowerGrid representative informed the required SEMs would be supplied to the respective constituents and the same would get it installed by the respective constituents.*

*Commercial Sub Committee advised PowerGrid and Constituents to coordinate and get the time drifted meters replaced at the earliest.*

**B7.4: Installation/Relocation & Replacement of Non-Functioning/Defective Meter.**

**i) Relocation of Meters.**

400 KV SUBHASGRAM (PG) - SAGARDIGHI (WB) Line was made LILO at Jeerat (WB) and 400 KV JEERAT (WBSETCL) - SUBHASGRAM (PG) tie Line was charged on 20/06/2021. As per FTC document Meter No ER-1477-A installed at Jeerat end of 400 KV JEERAT (WBSETCL) - SAGARDIGHI (WB) Line was to be shifted at Jeerat end to 400 KV JEERAT (WBSETCL) - SUBHASGRAM (PG). However, the shifting of meter is yet to be done and at present the said line has meter at only one end i.e., Subhashgram end.

*Powergrid/WBSETCL may update the status.*

**Deliberation in the meeting**

*PowerGrid representative informed that the Meter ER-1477-A has been shifted to Jeerat end of 400 kV Jeerat (WBSETCL) – Subhashgram (PG).*

**ii) Erroneous Reading ER-I-RG.**

- a) 765kV end 765/400kV ICT#1 (NP-7848-A) at New Ranchi
- b) 400kV end 765/400kV ICT#1 (NP-8756-A) at New Ranchi
- c) 765kV end 765/400kV ICT#2 (NP-7846-A) at New Ranchi
- d) 400kV end 765/400kV ICT#2 (NP-7875-A) at New Ranchi
- e) 220 KV Ramchandrapur (JSEB)-Jamshedpur (PG)-1 (ER-1241-A) at Ramchandrapur
- f) 220 KV Muzaffarpur (PG) – Kanti (BSEB)-2 (NP-5061-A) at Muzaffarpur.

**Deliberation in the meeting**

*ERLDC representative informed that both HV and LV side meters of ICT#1 and HV side meter of ICT#2 have been replaced.*

*PowerGrid representative assured that 400KV side meter of ICT#2 and meter at Muzaffarpur of 220 KV Muzaffarpur (PG) – Kanti (BSEB)-2 (NP-5061-A) would be replaced by the end of July,2021.*

*Further, Jharkhand informed that the meter at Ramchandrapur has also been replaced on 06.07.2021 and the correctness of meter data would be verified by ERLDC.*

*The Committee advised Powergrid to resolve the issue at the earliest.*

**iii) Defective Meter.**

- a) 400 KV Motihari (DMTCL)-Barh (NTPC)-2 (ER-1257-A) at Motihari (DMTCL)
- b) 400 KV Motihari (DMTCL)-Gorakhpur (NR)-1(ER-1165-A) at Motihari (DMTCL).

Powergrid may update the status.

**Deliberation in the meeting**

*ERLDC representative informed that the issue of defectiveness of meters installed at Motihari Substation of DMTCL has been occurring frequently.*

*DMTCL representative was not present in the meeting.*

*It was decided that ERPC Secretariat would write a letter to DMTCL to seek the clarification in this regard and to take up the necessary action in this regard.*

**ITEM NO. B8: Removal of Meter from identified locations of ER.**

It is identified that total 49 no's of SEM are installed at various locations of Eastern Region which has no use and as well as not accommodate as per CEA metering Regulations. This

situation is mainly raised due to modification of old network system and change in control area jurisdiction.

The list of non-usable meters is available in **Annexure-XV**. These meters may be used in some other locations of ER with the new synchronization of grid elements.

In 42<sup>nd</sup> CCM, POWERGRID informed that unutilized meters from Mejia station have been collected and tested. The respective constituents were again requested to remove the unutilized meters at the specified locations of their substations and the same could be collected by PGCIL after intimation. Further, the healthiness of meters would be checked and the same could be utilized by the constituents where ever it is required.

In 43<sup>rd</sup> CCM, POWERGRID informed that unutilized meters from few locations have been collected and tested. The respective constituent members were again requested to remove the unutilized meters at the specified locations of their substations and the same could be collected by PGCIL after intimation.

All the respective constituents were requested to intimate the status of unutilized meters at their end and same maybe communicated to POWERGRID to collect the meters. Further, the healthiness of the meters would be checked and the same could be utilized by the constituents wherever it is required.

PGCIL and Concerned utilities may update.

### **Deliberation in the meeting**

*ERLDC representative informed that the 8 nos ER series meters in the given list are Genus make meters which can be used after checking the healthiness of the same. However, rest of the L&T make meters are not suitable for accounting.*

*ERLDC further informed the meter no NP-6558-B needs to be excluded from the list.*

*PowerGrid representative informed that the respective constituents have to handover the meters to PowerGrid. However, they have not received any removed meters from any of the constituents yet.*

*The Committee advised all the constituents to hand over the removed meters mentioned in the list to PowerGrid at the earliest. Committee advised PowerGrid to utilise the Genus make meters after checking the healthiness.*

*On the request of ERLDC, the Commercial Sub-Committee advised all the states to coordinate with respective SLDCs to nominate a nodal person and share the contact details with ERLDC for meter related issues.*

**ITEM NO. B9: Settlement of Nodal Agency for Cross Border Transactions**

NVVN has been nominated as Settlement Nodal Agency (SNA) vide MoP order dated 26<sup>th</sup> Nov,2019 as per the clause 8.8 of the guide lines for Import/Export (Cross Border) of Electricity 2018.

In 42<sup>nd</sup> CCM ERPC, Commercial Sub-Committee advised NVVN to enter into necessary agreement with TPTCL to take over all the responsibilities of nodal agency from TPTCL for Dagachhu HEP transactions. NVVN was also advised to complete the necessary registration process with ERLDC (POSOCO). After this, all matters pertaining to scheduling, payment & settlement shall be taken care of by NVVN. It was decided to place this agenda in forthcoming TCC meeting for further approval.

However, on request of NVVN-SNA-Bhutan, ERLDC has registered them and issued acceptance letter on 13.05.2020.

As per the decision taken in 43<sup>rd</sup> CCM, MS ERPC wrote a letter dated 07.10.2020 to NVVN for updating the status of agreement with TPTCL to ERPC secretariat. NVVN vide letter dated 10.03.2021 to TPTCL has sought confirmation for execution of revised SNA Agreement.

In 43<sup>rd</sup> TCC/ERPC, NVVN informed that they had received a letter from CEA, wherein CEA enquired about the status of revised SNA agreement from NVVN.

TCC opined that CEA is the designated authority for cross border power transactions and the matter is already being dealt with by CEA. Therefore, it would be appropriate for NVVN to approach CEA for resolution of the issue.

**Deliberation in the meeting**

*NVVN representative inform that the matter was already taken up with CEA. As advised by CEA, NVVN is in the process of signing SNA agreement with TPTCL for Dagachhu HEP transactions.*

*Further, it was informed by NVVN, they have written a letter to Bhutan and TPTCL and reply from them is awaited in this regard.*

*CCM advised NVVN to update any progress in this regard to ERPC and ERLDC.*

**ITEM NO. B10: Submission of Renewable Purchase Obligation (RPO) data & Nomination-ERLDC Agenda**



Ministry of Power (MoP), Govt. of India vide order dated 29.01.2021 (enclosed as **Annexure-XVI**), notified RPO Trajectory till FY 2021-22, which includes long term trajectory for Hydro Power Obligation (HPO) also. In addition, Para No. (17) of MoP Order dated 29.01.2021, stipulates POSOCO to maintain data related to compliance of RPOs. The matter of monitoring of RPO compliance has taken a high priority and regularly monitored by the MoP and MNRE.

Obligated entities for RPO compliance are Distribution Licensees, Open Access Consumers, Captive Power Plants etc. which are intra-State entities. Further, in order to comply with above MoP order, POSOCO initiated several communications to all the State Nodal Agencies (SNAs) during the month of Feb'21 to Jun'21 and requested to provide the details relevant to compliance of RPO. However, POSOCO is yet to receive the RPO Compliance details at your end.

In order to facilitate compilation of details related to RPO compliance, it is hereby requested to nominate a nodal person from each State Nodal Agencies (SNAs) and advise the concerned to timely (within one month from the end of quarter) provide the details as per **Annexure-XVII** for FY 2020-21 and quarterly RPO compliance status of Obligated Entities for FY 2021-22 to following nodal persons from POSOCO for RPO compliance monitoring in an effective manner for onward submission of information to MOP and MNRE.

- Shri Manas Das, Chief Manager, ERLDC (Email: manasd@posoco.in, Mob.: 09007070925)
- Shri Kailash Chand Saini, Chief Manager, NLDC (Email: kcsaini@posoco.in, Mob: 08800690951)

State, may nominate the Nodal person and submit the relevant data in the prescribed format.

### **Deliberation in the meeting**

*ERLDC informed that as per the Ministry of Power (MoP), Govt. of India vide order dated 29.01.2021, POSOCO has been entrusted with the responsibility to maintain data related to RPO and HPO compliance. In this regard they have already pursued the matter with the state utilities a month ago.*

*Therefore, in order to facilitate the compilation of data, the constituents were requested to nominate a nodal person and provide the details timely as per the prescribed format.*

*The CCM Committee referred this agenda to the OCC meeting to have fruitful discussion.*

**ITEM NO. B11: Payment/Receipt Status of various pool accounts in ER – ERLDC  
Agenda**

### **B11.1: Payment of Deviation Charges – 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 22.06.2021 is enclosed at *Annexure – I*. The current principal outstanding Deviation Charge of BSPHCL, JUVNL and SIKKIM is ₹ 177.17 Cr, ₹ 37.08 Cr, & ₹ 3.08 Cr respectively considering bill up to 06.06.2021. ERLDC is regularly giving reminders to BSPHCL, JUVNL & SIKKIM and others defaulting entity to liquidate the outstanding Deviation charges.

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

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

*Bihar representative informed that due to Covid Pandemic they were facing severe financial crisis. He informed that the outstanding charges would be liquidated by September 2021.*

*JUVNL informed that they would liquidate the charges by the end of July 2021.*

*ERLDC informed that APNRL is self-adjusting the weekly DSM charges instead of payments based on weekly DSM accounts.*

*The Committee took serious view of this wrong practice being adopted by APNRL. Committee advised APNRL to stop this practice immediately and liquidate any outstanding payments. APNRL representative agreed.*

*The CCM Committee advised the respective constituents to liquidate the dues at the earliest.*

### **B11.2: Interest due to delayed payment of Deviation Charges/RRAS.**

- a) Due to delayed payment of deviation charges in DSM Pool interest was computed for all the DSM Pool Members. The statement of interest amount as on 31.03.21 is enclosed in *Annexure-II*. Bihar, DVC, Jharkhand, West Bengal, Jorethang, GMR, KBUNL, NVVN-Bangladesh, PGCIL (HVDC Alipurduar), OPGC (Gridco), PGCIL (HVDC Sasaram) and Dikchu are requested to clear the dues.

b) CERC has approved detailed procedure for Ancillary Services Operations vide ref no.: 1/10/2012- Reg.Aff.(REC-Gen.)/CERC dtd 21st November, 2016. As per para 13.9 & 13.10 of detailed procedure Interest for delay payment for RRAS Providers has been calculated upto 31<sup>st</sup> March, 2021. An amount of ₹ 11.70764 lacs was payable towards RRAS interest upto 31.03.2021 and the same has been disbursed to the constituents on 16.06. 2021.The details are enclosed in *Annexure-II*.

Constituents, who are in payable mode, may please confirm the program for payment of interest.

### **Deliberation in the meeting**

*Bihar & Jharkhand representatives informed that the interest amount would be paid within a week.*

*The Committee advised all the constituents to liquidate the payment at the earliest.*

#### **B11.3: Deviation Charges – Present Status.**

The total principal outstanding (bill up to 06.02.2019) of M/s IBEUL is of ₹ **112.50429** lakh and interest calculated up to 29.05.2019 is of ₹ **26.75383** lakh. A petition (petition no.- 230/MP/2018 dated 16.04.2019) in CERC had been filed in July, 2018 by ERLDC against M/s IBEUL for violation of Regulation 10 of DSM regulations 2014. Hon'ble commission directed in order against this order dated 16.04.2019 that the Petitioner is at liberty to approach NCLT (National Company Law Tribunal) for appropriate directions in accordance with law. Further, ERLDC has filed a claim as mentioned above in NCLT on 31.05.2019 and the same is admitted by NCLT. *Hence, the final principal outstanding of ₹ 112.50429 lakh and interest calculated up to 29.05.2019 is of ₹ 26.67585 lakh may be considered and recorded.* Hearing at NCLT in the above matter is pending.

Member may note.

### **Deliberation in the meeting**

*Members noted.*

#### **B11.4: Reactive Energy Charges – Present Status.**

As per decision taken in 43<sup>rd</sup> TCC/ERPC the methodology of Reactive energy billing has been revised and is implemented w.e.f. 05.04.2021 and bills are being issued to recipient states as well. The status of Reactive Energy Charges in the pool as on 22.06.2021 considering bill up to 30.05.2021 is indicated in *Annexure – III*. The total outstanding receivable on account of

Reactive charges from Bihar & JUVNL is ₹ 3.64 Cr. & ₹ 4.04 Cr. respectively. WBSETCL and GRIDCO are regularly paying the reactive charges. Sikkim has cleared its long pending reactive charge outstanding.

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

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

*Bihar and Jharkhand informed that the Reactive Energy Charges shall be paid within a week.*

#### **B11.5: 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 22.06.2021 (considering bill up to 06.06.2021) is indicated in *Annexure – IV*. So far ₹ 25.19 Cr has been settled under RRAS in ER during FY 2021-22.

Members may note.

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

*It was informed that there are no delays in the RRAS Accounts.*

#### **B11.6: AGC Account - present status.**

The updated position of Payments to the AGC Provider (i.e., Barh) from the DSM pool and Payments by the AGC Provider to the DSM pool as on 22.06.2021 (considering bill up to 06.06.21) is indicated in *Annexure – IV*. There has been no dispatch of AGC in ER since August 2020.

Members may note.

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

*Members Noted.*

#### **B11.7: Status of PSDF.**

An amount of ₹ 13.04 Cr from Reactive account & TDS deducted on Bank interest on DSM have been transferred to PSDF after 43<sup>rd</sup> Commercial sub-committee meeting held on 21.09.21. With this the total amount of ₹ 1336.23 Cr has been transferred to PSDF so far. The break up details of fund transferred to PSDF (till 22.06.21) is enclosed in *Annexure V*.

Members may note.

### **Deliberation in the meeting**

#### ***Members Noted.***

## **ITEM NO. B12: Reconciliation of Payment Pool Accounts.**

### **B12.1: Deviation Account.**

At the end of 4<sup>th</sup> quarter of 2020-21, the reconciliation statement (Period: 01.01.21 to 31.03.22) has been issued by ERLDC on 28.04.21 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 to be reported to ERLDC at the earliest. The status of reconciliation is enclosed in ***Annexure-VI***.

Bihar & Sikkim have not reconciled for last 7 quarters, KBUNL, Chuzachen & Powergrid ER-II for last 4 Quarters, JUVNL, DVC, APNRL, NVVN (Bangladesh & Nepal), TPTCL, JLHEP, Tashiding, Powergrid ER-1, Dikchu, GMR & NPGC for 3 quarters, NHPC, WEST BENGAL, MPL for 2 quarters and NTPC, JITPL & BRBCL for last one quarter has not signed the reconciliation statement.

All the above constituents are requested to update the status of reconciliation.

### **Deliberation in the meeting**

***ERLDC representative informed that Bihar & Sikkim have not reconciled for last seven quarters.***

***Bihar representative informed that they have already done the deviation reconciliation for seven quarters and they will send the same to ERLDC.***

***The CCM Committee advised all the constituents to send the reconciliation statements to ERLDC at the earliest.***

### **B12.2: Reactive Account.**

At the end of 4<sup>th</sup> quarter of 2021-22, the reconciliation statement (Period: 01.01.21 to 31.03.21) has been issued by ERLDC on 28.04.21 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 to be reported to ERLDC. The status of reconciliation is enclosed in ***Annexure-VII***.

BSPHCL, JUVNL & SIKKIM have not reconciled the reactive account for last 8 quarters. Further, DVC & WBSETCL for 4 quarters and GRIDCO have not reconciled the account for last quarter.

All the above constituents are requested to update the status of reconciliation.

**Deliberation in the meeting**

*Bihar informed that they have send the reconciliation statements to the ERLDC representative.*

*The Committee advised the remaining constituents to send the reconciliation statements at the earliest.*

**B12.3: RRAS & AGC Account.**

At the end of 4<sup>th</sup> quarter of 2021-22, the reconciliation statement (Period: 01.01.21 to 31.03.21) has been issued by ERLDC on 28.04.21 and statements had been sent to the respective constituents and also uploaded the same at ERLDC website at link <https://erldc.in/market-operation/rrasreconciliation/>.

KBUNL for 5 quarters, NPGC for 3 quarters, NTPC & MPL have not reconciled the RRAS account for last quarter of FY 21-22. The status of reconciliation is enclosed in *Annexure-VII*.

All the above constituents are requested to update the status of reconciliation.

**Deliberation in the meeting**

*KBUNL informed that they will send the reconciliation statement to ERLDC by the next week.*

**B12.4: Short Term Open Access.**

**a) For STOA Payments made to SLDC/STU.**

The reconciliation statements of STOA payments for the period of Apr'18 to Mar'21 have been sent to the DVC, OPTCL, BSPTCL and WBSETCL for checking at their end and confirmation from their side.

WBSLDC has confirmed up to Sep'20. WBSETCL has confirmed up to Sep'19.

OPTCL has confirmed up to Sep'19.

ODISHA SLDC has confirmed up to Apr'19.  
DVC SLDC & STU has confirmed up to Jun'21.  
BIHAR SLDC & STU is yet to confirm for the entire period.

**Deliberation in the meeting**

*The Commercial Sub-Committee advised the concerned constituents to send the reconciliation statements in time.*

**b) For Payments made to STOA Applicants.**

The reconciliation statements of STOA payments for the period of Apr'18 to Mar'21 have been sent to the CESC, JITPL, JBVNL, BSPHCL, NHPC and WBSEDCL for checking at their end and confirmation.

NHPC is yet to confirm for Q4 of 2018-19. BSPHCL is yet to confirm for Q-1 & Q-2 of 2020-21. JBVNL is yet to confirm for the period of Q-2, Q-3 & Q-4 of 2020-21. WBSEDCL is yet to confirm for the period of Q-4 of 2020-21.

As per clause 15.1 of CERC approved STOA bilateral procedure since the confirmations have not been received within 2 weeks from the date of issuance of the letters the statement issued by ERLDC have been deemed to be reconciled.

The details are attached in the *Annexure-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**

*The Commercial Sub-Committee advised the concerned constituents to send the reconciliation statements in time.*

**ITEM NO. B13: Opening of LC for 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 2021-22 by ER constituents is given in ***Annexure - IX***. Letters to this effect has been issued by ERLDC to the defaulting entities.

At present there is no valid LC i.r.o BSPHCL, JUVNL, DVC, GRIDCO, WEST BENGAL SIKKIM, MTPS STG-II, POWERGRID (ER-I & ER-II), JLHEP and TASHIDING. LC of JITPL is going to expire on 30.06.2021 which also needs to be renewed.

In 43<sup>rd</sup> TCC, GRIDCO had informed that they would open the LC in due course. BSPHCL was also informed by ERLDC to open LC in favour of DSM Pool A/C in SBI instead of Axis Bank. However, LC is not opened till now. TCC advised all the concerned constituents to open requisite LC at the earliest.

Opening of LC is the regulatory requirement as per provision of CERC DSM regulations for defaulting members. Defaulting members may please intimate the latest status of opening of LC.

## **Deliberation in the meeting**

***Bihar informed that they have opened the LC, which is valid up to 14<sup>th</sup> November 2021.***

***Commercial Sub-Committee advised all the constituents to open the requisite LC in time.***

## **ITEM NO. B14: Agenda items by POWERGRID**

**B14.1: Payments of outstanding dues more than 45 days.**



SL. No	Name of DIC's	Total Outstanding dues (in Cr.)	Outstanding due more than 45 days (in Cr.)
(i)	GMR Kamalanga Energy Ltd.	29.15	24.47
(ii)	Shiga Energy	11.56	8.51
(iii)	Ind-Barath Energy (Utkal) Limited	220.54	220.54
(iv)	West Bengal State Electricity Distribution Company Ltd. (WBSEDCL)	161.22	2.2
(v)	GRIDCO Ltd	27.72	23.26
(vi)	Teesta Valley Power Transmission Ltd (TPTL)	5.75	5.75
(vii)	Teesta Urja Limited (TUL)	11.58	11.53
(viii)	Power Dept. Govt. of Sikkim	23.34	20.42
(ix)	Jharkhand Bijli Vitran Nigam Limited (JBVNL)	99.83	52.2
(x)	North Bihar Power Distribution Company Limited (NBPDCCL)	198.17	102.62
(xi)	South Bihar Power Distribution Company Limited (SBPDCL)	225.52	111.67
(xii)	NTPC Limited	34.75	34.75
(xiii)	Jharkhand Urja Sancharan Nigam Limited (JUSNL)	13.1	12.73
(xiv)	Odisha Power Generation Company Limited (OPGCL)	18.93	18.93
(xv)	Odisha Power Transmission Company Limited (OPTCL)	55.24	55.24
	<b>Total</b>	<b>1136.4</b>	<b>704.82</b>

Remarks of above:

(iii) Ind-Barath Energy (Utkal) Limited: - Matter in NCLT.

(iv) The outstanding pertaining to WBSEDCL (Bill # 4 @ Rs. 2.20 Cr). WBSEDCL has not admitted Rs. 2.20 Cr towards Bill # 4 long pending outstanding.

(v) The outstanding pertaining to GRIDCO (Surcharge @ Rs. 23.26 Cr)

(xii) POWERGRID Bill, letter of NTPC & reply from POWERGRID (enclosed as *Annexure-A*)

**Members may note.**

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### **Deliberation in the meeting**

*Commercial Sub-Committee advised respective constituents to liquidate the Outstanding dues at the earliest.*

#### **B14.2: Non-payment of RTDA bills.**

Following DIC's have not been paying RTDA bills.

SL. No	Name of DIC's	Outstanding dues	Remarks
(i)	West Bengal State Electricity Distribution Company Ltd. (WBSEDCL)	2.20	Letter has been written by POWERGRID to WBSEDCL enclosed as ( <i>Annexure- B</i> )
(ii)	NTPC Limited	34.75	Bill had been raised due to shifting of COD of Barh-II Unit IV from 15.11.14 to 08.03.16.

*Members may note.*

### **Deliberation in the meeting**

*WBSEDCL representative was not present in the meeting.*

*PowerGrid representative informed that the payment of ₹ 34.75 Crs is not yet liquidated by NTPC on account of CoD issue of Barh-II.*

*NTPC representative informed that they have already filed a writ petition in Hon'ble Supreme Court. He further informed that as per CERC vide order dated 20th September, 2017 in Petition no. 130/MP/2015 excess payment, if any, received by NTPC during the above period shall be adjusted against the capital cost.*

*The Committee pointed out there is no link between capital cost adjustment and the RTDA bill payment. It was observed that RTDA charges are adjusted among the long-term transmission customers subsequently. Hence NTPC was requested to liquidate the outstanding payment of ₹ 34.5 Crs on account of RTDA immediately.*

*On query from PowerGrid, NTPC representative informed that there is no stay order as of now from Hon'ble Supreme Court in this regard.*

*Commercial Sub-Committee opined that as per the CERC order the power injected during the period 15.11.14 to 08.03.16 is treated as infirm power injection and the payment liability of RTDA charges in this regard has to be fulfilled by NTPC.*

**B14.3: Non-Opening of requisite amount of LC.**

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

SL. No	Name of DIC's	Present Value of LC (in Cr.)	Value of LC Required (in Cr.)
(i)	North Bihar Power Distribution Company Limited (NBPDCCL)	9.73	62.29
(ii)	South Bihar Power Distribution Company Limited (SBPDCL)	15.27	73.12
(iii)	Jharkhand Bidyut Vitran Nigam Ltd (JBVNL)	26.96	11.77
(iv)	South Eastern Railway (SER)	--	4.83
(v)	East Central Railway (ECR)	--	41.93
(vi)	Sikkim	2.92	4.89
(vii)	Nabinagar Power Generating Company Pvt. Ltd. (NPGCPL)	--	4.48
(viii)	Bhartiya Rail Bijlee Company Ltd. (BRBCL)	--	1.48

- Letter of Credit (LC) will be opened in favour of **CTUIL for POC & POWERGRID** towards **Non-POC Billing**.

*Members may note.*

**Deliberation in the meeting**

*Commercial Sub-Committee advised respective constituents to enhance/ extend LC towards Payment Security Mechanism dues at the earliest.*

*Additional Agenda:*

**ITEM NO. B15: Revised Schedule for low Load and ramp test of 525 MW unit # 2, Maithon RB TPP, MPL-reg.**

With Reference to CEA's letter No. 2/4/Flexible/TPRM/CEA/2019 dated 11.03.2021 regarding flexible operation test of 525 MW unit # 2, Maithon RBTPP was scheduled to be from 22nd March to 1st April 2021, but the same was not executed on account of the general election to  
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the Legislative Assembly of West Bengal. In this regard, the low load and ramping up/down test shall be conducted from 19th July to 29th July 2021. Further, it is decided to measure the efficiency, NOx and raw water consumption during the test to evaluate impact of low load operation on net heat rate, NOx generation and water consumption. It is therefore, requested to extend support to IEGF and MRB TPP in conducting the test. Further, the unit # 2, MRBTPP may be exempted from any obligation to provide grid services during the test period and there should not be any adverse effect on the DC of the unit.

Members may discuss.

### **Deliberation in the meeting**

*MPL representative informed that as per CEA's letter No. 2/4/Flexible/TPRM/CEA/2019 dated 11.03.2021, the flexible operation test of 525 MW unit # 2 of Maithon RBTPP would be conducted from 19th July to 29th July 2021.*

*Since the test is being carried out to provide grid services, therefore there should not be any effect on the DC of unit. MPL further informed that Maithon RBTPP is tied with the beneficiaries of other regions NR and SR so the consent from them has already been taken for the said test.*

*The Commercial Sub-Committee deliberated that this is a regulatory requirement and to improve the grid performance there would not be any objection from ER beneficiaries as well. Therefore, advised to carry out the test as per the schedule.*

### **ITEM NO. B16: Provisioning of STM-16 Channel between Darbhanga (ATL-Coriant) – Darbhanga (PMTL-ECI)- Muzaffarpur (PG-Coraint) Equipment.**

A redundant path of Malda- Farakka was provisioned by POWERGRID as per advice of the forum, in the form of Kishanganj (PG-Coriant) - Darbhanga (ATL- Coriant) STM-16 link and Darbhanga (ATL Coriant) - Muzaffarpur (PG-Coriant) STM-4 link. An SLD of OPGW Connectivity is attached at Annexure-13.5.1. The capacity of STM-4 provisioned between Darbhanga (ATL- Coriant) - Muzaffarpur (PG Coriant) & Kishanganj (PG-Coriant)- Dalkhola (PG-Coraint) is becoming a bottleneck in utilization of optimum capacity of Kishanganj (PG-Coriant)- Darbhanga (ATL- Coriant) STM-16 link and providing redundancy with optimum capacity. It is proposed to provision a new STM-16 Connectivity between Darbhanga (ATL-Coriant)- Darbhanga (PMTL-ECI) - Muzaffarpur (PG-Coraint) Equipment & Kishanganj (PG-Coriant)- Dalkhola (PG Coriant) STM-4 link may be upgraded to STM-16, which will enable use of the network for redundancy purpose at optimum capacity i.e.STM-16. A revised schematic of the proposed Upgradation is shown at Annexure-13.5.2. The tentative cost of the proposed Upgradation will be ₹ 3.5 Lacs approx.

9th TeST committee approved the proposal and referred it to the Commercial Committee meeting.

**Deliberation in the meeting**

*PowerGrid representative informed that in principle agreed in the 9th Test meeting for the proposal for STM-16 Channel between Darbhanga (ATL-Coriant) – Darbhanga (PMTL-ECI)- Muzaffarpur (PG-Coraint).*

*The estimated expenditure for the proposed upgradation work will be ₹ 3.5 Lacs approx. has been agreed by the Commercial Committee.*

*The matter was referred to forthcoming TCC/ERPC meeting for Concurrence.*

**PART C: ITEMS FOR INFORMATION**

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

**C1.1: STU and SLDC Transmission & Operating charges for FY 2021-22.**

Name of STU	Intra-State Transmission Charges	Transmission Loss (For Embedded Entities)
WBSETCL	Rs. 243.92/MWh	3.10%
DVC	Rs. 143.7/MWh	2.28%
OPTCL	Rs. 280/MWh	3.00%
JUSNL	*	#
BSPTCL	Rs. 263/MWh	3.00%
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.

**C1.2: State Load Despatch Centre Operating Charges for STOA for FY 2021-22**

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

*This is for the information to the members and any discrepancy may be reported.*

### **Deliberation in the meeting**

#### *Members Noted*

#### **ITEM NO. C2: Status of Start-up Power drawl, infirm injection & COD declaration.**

Updated Status of Start-up power drawl, infirm injection and CoD Declaration of Generators as Regional entity and Pool member in last Quarter is as follows:

#### **1. Start Up power stage:**

<b>S. No</b>	<b>Generator</b>	<b>Date of start-up Power Drawl</b>
1.	Darlipalli (2x800MW) Unit-2	31/03/2020
2.	NPGC (2X660 MW) Unit-2	27/08/2019
3.	NPGC(2X660MW) Unit-3	March-2021
4.	BRBCL U#4(250 MW)	Not started
5.	Barh Stg-I(3X660MW) U-1	01/02/2020
6.	Rongnichu (2X56.5 MW) U-2	17/04/2021

#### **2. Infirm Power Stage:**

<b>S. No</b>	<b>Generator</b>	<b>Infirm Injection Started From</b>	<b>6 months period would end by</b>	<b>Extension granted by CERC</b>
1.	Darlipalli (2x800MW) Unit-2	23/03/2021	22/09/2021	NIL
2.	NPGC (2X660 MW) Unit-2	12/02/2020	11/08/2020*	Extension allowed till 31.08.2021.

				Trial Run Completed on 31/03/2021. COD yet to be declared.
3.	NPGC(2X660MW) Unit-3	28/03/2021	27/09/2021	NIL
4.	BRBCL U#4(250 MW)	Not Done	NIL	NIL
5.	Barh Stg-I(3X660MW) U-1	27/09/2020	26/03/2021	Extension allowed Up to 25/09/2021
6.	Rongnichu (2X56.5 MW) U-2	20/04/2021	19/10/2021	NIL

3. **COD Declared:** *Rongnichu Unit-1 (56.5 MW) declared COD w.e.f 00:00 hrs of 26.06.2021*

*Members may note.*

**Deliberation in the meeting**

*Members Noted*

**ITEM NO. C3: Items for Information - PowerGrid**

**C3.1: General Information on payment security mechanism**

MOP Guideline vide letter no. 40/1/2021-R&R dated 18<sup>th</sup> March,2021 (enclosed as **Annexure-C**) on payment security mechanism for payment of dues by Discoms to Gencos and Transcos.

BCD Procedure as per Clause 3 of Regulation 23 of CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 (enclosed as **Annexure-D**).

- Regarding Standard Terms & Conditions of Letter of Credit as per **Annexure-8** of 8.2 of Para 8.0 of BCD Procedure established by DIC towards Payment Security Mechanism.
- Regarding Payment details from DIC for each and every payment transaction made in CTU Account strictly as per format prescribed at **Annexure-5** of 4.3 of Para 4.0 of BCD Procedure within **One working days**.
- Regarding furnished the TDS certificates as per 5.5 of Para 5.0 of BCD Procedure & TDS Certificates in the name of POWERGRID (to the extent of POWERGRID Share) and balance in the name of ISTS Licensees/CTUIL as the ratio communicated to the corresponding month.

- Gazette Notification dated. 09.03.2021, PAN and Mandate form of CTUIL (enclosed as *Annexure-E*).

*Members may note.*

**Deliberation in the meeting**

*Members Noted*

**C3.2: List of assets during October 2020 to March 2021 of Eastern Region.**

List of assets during October 2020 to March 2021 of Eastern Region are enclosed at **Annexure -F**

**C3.3: List of Assets of PowerGrid Mithilanchal Transmission Limited (PMTL).**

List of Assets of PowerGrid Mithilanchal Transmission Limited (PMTL) are enclosed at **Annexure- G**

*Members may note.*

**Deliberation in the meeting**

*Members Noted*

\*\*\*\*\*



# ANNEXURES

## Annexure P

LIST OF ATTENDEES OF 44<sup>th</sup> CCM MEETING

SL NO.	NAME	DESIGNATION	ORGANISATION	PHONE NO.
1	ERPC, KOLKATA	HOST	ERPC	
2	N.S. MONDAL	MEMBER SECRETARY	ERPC	
3	S. KEJRIWAL	SUPERINTENDING ENGINEER	ERPC	
4	D.K.BAURI	SUPERINTENDING ENGINEER	ERPC	
5	S.K.ROY	SUPERINTENDING ENGINEER	ERPC	
6	LENIN B	EXECUTIVE ENGINEER	ERPC	
7	ALIKPANTHA DE	EXECUTIVE ENGINEER	ERPC	
8	SHISHIR KUMAR PRADHAN	ASSISTANT EXECUTIVE ENGINEER	ERPC	
9	RAMAN KUMAR			
10	PARTHO GHOSH		POWERGRID	
11	GIRISH CHANDRA MOHAPATRA			
12	GOPAL MITRA	CHIEF GENERAL MANAGER	ERLDC	
13	SUNIT			
14	MRINALINI SHARMA			
15	RAJESH SHARMA		GATI	
16	SUBODH KUMAR PRADHAN		ERLDC	
17	S K DASH			
18	SURAVEE TRIPATHI			
19	SHYAM KUMAR		ERLDC	
20	PINKI DEBNATH		ERLDC	
21	RAJDEEP BHATTACHARYA	RESIDENT ENGINEER	BSPTCL	
22	M.K. AGARWAL	SENIOR GENERAL MANAGER	POWERGRID	
23	SHEKHAR MISHRA			
24	D.K. JAIN	EXECUTIVE DIRECTOR	ERLDC	
25	NADIM AHMED	DEPUTY GENERAL MANAGER	ERLDC	
26	VIJAY KUMAR PAILA		SHIGA ENERGY	
27	PANKAJ MONDAL		MPL	
28	SHANKAR SARAN			
29	ARSHAD			
30	MANAS DAS		ERLDC	
31	SHABARI PRAMANIK		ERLDC	
32	ZANGPO			
33	SWATI JINDAL		ERLDC	
34	MALAY RANJAN DAS	DEPUTY GENERAL MANAGER	OPTCL	
35	DEBDAS MUKHERJEE		WBPDCL	
36	UGYEN SHERING			
37	SUJIT KUMAR MAHARANA		GRIDCO	
38	SONAM ONGCHUK LEPCHA		SIKKIM SLDC	
39	SONAM WANGCHUK			
40	S SEN			
41	MUNNA KUMAR		DGPC	
42	DEEPAK KUMAR			
43	GM COMMERCIAL		JBVNL	
44	ANURAG			
45	PRADIP MAJI	GENERAL MANAGER	SBPDCL	
46	SOMA BASU			
47	S GAUTAM		CHUZACHEN HEP	
48	OPTCL			
49	B D KUMAR			



# पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

(सरकार द्वारा संचालित)

**POWER GRID CORPORATION OF INDIA LIMITED**

(A Government of India Enterprise)

Eastern Region Transmission System - 1  
Alankar place, Regional Head Quarters  
Patna-800001  
Tel : 0612-2231071 Fax : 0612-2231071 Email :

Ref No: POWERGRID/ER01/Comml/Serial No: 91401929 / 46

Date: 08 JUL 2019  
CIN NO : L40101DL1989GOI038121

To,  
Barh STPS, NTPC  
NTPC Limited,  
Barh, Patna Dt., 803215  
Bihar

Customer PAN :

Sub: Bill 4 for period from 15 Nov'14 to 07 Mar'16 towards Barh Stg-II Unit-4 as per ERPC letter dtd. 02.02.18

Please find enclosed PoC Bill 4 for the period from 15 Nov'14 to 07 Mar'16 towards Barh Stg-II Unit-4 as per ERPC letter dtd. 02.02.18 (CERC order dtd. 20.09.17 in Pet No. 130/MP/2015)

1. Bill of Supply No : MI1004190006 Dated : 08 JUL 2019

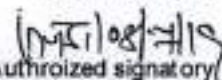
2. Amount : Rs. 347,501,882.00

(In words: Rupees Thirty Four Crore Seventy Five Lakh One Thousand Eight Hundred Eighty Two Only)

The Bill has been raised as per CERC (Sharing of Inter-State transmission charges & losses) Regulation 2010.

Thanking You,

Yours Faithfully,



Authorized signatory  
For & On Behalf of Power Grid  
Corporation of India Ltd

Encl: a/a

Registered Office : B9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016

Ph 011-26560112, 26560121, 26564892 Fax: 011-26560101

रामन कुमार / RAMAN KUMAR  
Manager (Comml.)  
पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड  
POWER GRID CORPORATION OF INDIA LIMITED  
पूर्वी क्षेत्र पावरग्रिड प्रणाली-1 / ERPT5-1  
सॉल्ट कॉलोनी, शास्त्री नगर, पटना-23  
Salt Colony, Shastri Nagar, Patna-23

स्वहित एवं राष्ट्रहित में ऊर्जा बचाएं  
Save Energy for Benefit of Self and Nation



एक महारत्न कम्पनी

CM (Commercial)

Pl send this to  
CC, Commercial for  
further info.

एनटीपीसी लिमिटेड

(एनएनएनटीपीसी)

NTPC Limited

(A Govt. of India Enterprise)

Ref. No. ER-I HQ/COMML/PGCIL/15

पूर्वी क्षेत्र-1 मुख्यालय / Eastern Region-I Headquarters

Date: 08.08.2019

To,  
Chief Manager (Commercial)  
PGCIL, Shastri Nagar,  
Patna

श्री M.K. Agarwal, Gr. GM (Comm.) →  
may like to receive  
(ms) 09/8/19

Subject: Regarding your RTDA bills dtd 08.07.2019 in respect of Barh STPS Stage-II Unit-IV for the period 15.11.2014 to 07.03.2016.

Sir,

This has reference to your bill dtd 08.07.2019 on the subject above. In this regard we would like to clarify that consequent to issuance of order by CERC revision of COD of Barh-II Unit-IV from 15.11.2014 to 08.03.2016, ERPC on 11.01.2018 revised RTA, REA & DSM account for the period. Subsequently RTDA revision was also issued on 02.02.2018 by ERPC for this period for Barh STPS Unit-IV.

This issue was discussed in 40<sup>th</sup> TCC/ERPC held on 15/16<sup>th</sup> March 2019 wherein NTPC clarified that CERC in its order dtd 20.09.2017 in Pet No. 130/MP/2015 had held that:

Quote

"28. Power injected by Respondent No. 1 in respect of the Unit before 8.3.2016 shall be treated as infirm power even though power was scheduled by the beneficiaries during the period. The revenue earned over and above fuel cost from sale of infirm power from 15.11.2014 to 7.3.2016 shall be adjusted in the capital cost."

Unquote

NTPC also stated that there is no direction either from CERC or Hon'ble APTEL regarding refund of any charges by NTPC in view of change in COD date of Unit-IV from 15.11.2014 to 08.03.2016. Therefore any adjustment for this period had to be done in capital cost in tariff petition of Barh STPS-II Pet No 130/GT/2014 which was pending for tariff determination.

Based on above and after discussion with all beneficiaries it was recorded in ERPC that:

"After detailed deliberation, members unanimously resolved that, since there is no convergence on this issue between NTPC and the beneficiaries of Barh STPS-II, the same could not be resolved in ERPC forum. ERPC suggested that the concerned constituent(s) might take up the issue suitably in appropriate higher level"

NTPC has already filed amended tariff petition based on revised COD for Unit-IV in Pet No 130/GT/2014. The tariff petition is currently under consideration of CERC. Therefore till the CERC decides the above tariff, and treatment of all the charges for this period, the above bills do not become due on NTPC and hence may kindly be withdrawn.

Yours faithfully,

(Sunil Kumar)

Additional General Manager(Commercial)

Encl.: Original Bill.



# पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्योग)

**POWER GRID CORPORATION OF INDIA LIMITED**

(A Government of India Enterprise)

EASTERN REGION - 1,, POWERGRID CORPORATION OF INDIA LIMITED, RAJBANSHI  
NAGAR, NEAR TRW, PATNA, 800023, IN  
Bihar  
GSTIN: 10AAACP0252G1Z8

## Billing, Collection and Disbursement of Inter State Transmission System Charges

**PoC Bill 4 for period from 15 Nov'14 to 07 Mar'16 towards Barh Stg-II U-4 as per ERPC letter  
dtd. 02.02.18 (Revision of RTDA)**

CIN No : L40101DL1989GOI038121

POWERGRID PAN No: AAACP0252G

DIC No : 2100186

Name of DIC: Barh STPS, NTPC

Address of Dic: NTPC Limited,,,

GSTIN of DIC:

Bill of Supply No.: MI1004190006

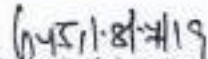
Bill of Supply Date: 08.07.2019

GST\_SAC: 996911

S No.	Description	Amount (Rs.)
1	Deviation charges ER	4,248,118.00-
2	Infirm/Startup Power	351,750,000.00
3	<b>Sub Total A</b>	<b>347,501,882.00</b>
4	<b>Sub Total B</b>	<b>0.00</b>
<b>Grand Total</b>		<b>347,501,882.00</b>

In words: Rupees Thirty Four Crore Seventy Five Lakh One Thousand Eight Hundred Eighty Two Only

Please make RTGS payment in SBI,(CAG-II Branch, New Delhi) IFSC Code SBIN0017313, A/C 31858364382

  
Authorized signatory

रमण कुमार / RAMAN KUMAR  
मुख्य प्रबंधक (कारिंग) / Chief Manager (Caring)  
For & On behalf of Power Grid Corporation Of India Ltd. लिमिटेड  
POWER GRID CORPORATION OF INDIA LIMITED  
पूर्वी क्षेत्र कारिंग प्रभाग-1 / EASTERS-1  
बोर्ड कॉलोनी, शास्त्री नगर, पटना-23  
Board Colony, Shastrri Nagar, Patna-23

स्वहित एवं राष्ट्रहित में ऊर्जा बचाएं  
Save Energy for Benefit of Self and Nation



# पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)

**POWER GRID CORPORATION OF INDIA LIMITED**

(A Government of India Enterprise)

**EASTERN REGION - 1,,POWERGRID CORPORATION OF INDIA LIMITED,RAJBANSHI  
NAGAR, NEAR TRW,PATNA,800023,IN  
Bihar  
GSTIN: 10AAACP0252G1Z8**

## Billing,Collection and Disbursement of Inter State Transmission System Charges

**PoC Bill 4 for period from 15 Nov'14 to 07 Mar'16 towards Barh Stg-II U-4 as per ERPC letter  
dtd. 02.02.18 (Revision of RTDA)**

CIN No : L40101DL1989GOI038121

POWERGRID PAN No: AAACP0252G

DIC No : 2100186

Name of DIC: Barh STPS, NTPC

Address of Dic:NTPC Limited,..

GSTIN of DIC:

Bill of Supply No.: M11004190006

Bill of Supply Date: 08.07.2019

GST\_SAC: 996911

Please make RTGS payment in SBI, (CAG Branch, New Delhi) IFSC Code: SBIN0017313, A/C 31858364382

### Note:

1. To view/ download the bill and upload the payment advice, please login to the BCD Portal at <http://customer.powergrid.in>
2. This bill has been raised on behalf of all the ISTS licensee/Deemed ISTS licensee/RPC Certified licensee(details enclosed) in accordance with the CERC (Sharing of ISTS charges & losses) Regulations, 2010 and BCD Procedure approved by CERC.
3. The Rebate for timely payment/ Late payment surcharge shall be governed as per Clause 3.3 and 3.4 of the BCD procedure, respectively.
4. In case of any discrepancy in the bill, please refer Clause 3.5 of the BCD Procedure.
5. This bill does not cover transmission charges pertaining to bilateral assets.

*Raman Kumar*

रमण कुमार / RAMAN KUMAR  
मुख्य प्रबंधक (आयतन) / Chief Manager (Comm.)  
पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड  
POWER GRID CORPORATION OF INDIA LIMITED  
पूर्वी क्षेत्र वाटवारा प्रणाली-1 / ISTRS-1  
बोर्ड कॉलोनी, शास्त्री नगर, पटना-23  
Board Colony, Shastri Nagar, Patna-23

स्वहित एवं राष्ट्रहित में ऊर्जा बचाएं  
Save Energy for Benefit of Self and Nation



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
पूर्वी क्षेत्रीय विद्युत समिति

**Eastern Regional Power Committee**  
14, गोल्फ क्लब रोड, टॉलियुज, कोलकाता-700032  
14 Golf Club Road, Tollygunj, Kolkata-700032



Tel No.:033-24239651, 24239657 FAX No.:033-24239652, 24239652 Web: [www.erpc.gov.in](http://www.erpc.gov.in)

No: ERPC/COM-1/REA/2018/3180-3198

Date: 02.02.2018

FAX MESSAGE NO.

**From: Member Secretary, ERPC, Kolkata.**

**To: As per list**

In continuation to even No. letter dated 11/12.01.2018, RTDA statement for the period from 15.11.2014 to 07.03.2016 has been revised and given in Annexure-I for kind information and necessary action by all concerned. The revision has been done on account of change in COD date of Unit 4 of Barh Stage-II to 08.03.16 as per CERC order dated 20.09.17 in Petition No. 130/MP/2015.

Regards,

*Manages - 188  
for on 12/1/18  
- Copy for kind inf pp.  
ED (Comm), cc  
ED (ER-F)  
11/12/18*

*Jaydev Banerjee 02/02/2018*  
(J. Bandyopadhyay)  
Member Secretary

## DISTRIBUTION LIST:

### BIHAR

1. Chief Engineer, Transmission (O&M), BSPTCL, Vidyat Bhawan, Bailey Road, Patna-800021 (Fax 0612-2504557/2227557)
2. ISE (Interstate), BSEB, Vidyat Bhawan, 3<sup>rd</sup> Floor, Bailey Road, Patna-800 021. (Fax 0612-2504557)

### JHARKHAND

1. CE (Comm & Revenue), JHVNI, Engineering Building, H.E.C. Township, Dhanva, Ranchi-834004, Jharkhand. (Fax : 0651-2490486 / 2400799)
2. GM-enm-CE (Trans), JSEB, Kusai Colony, Duranda, Ranchi, Jharkhand (Fax:0651-2490486)

### ODISHA

1. Sr. GM(PP), GRIDCO, 4<sup>th</sup> floor, Vidyat Bhawan, Janpath, Bhubaneswar-22. (Fax : 0674-2547180/2547261)
2. Sr. GM (PS), OPTCL, SLDG Bldg, PO Muneswar Rly Colony, Bhubaneswar-17. (Fax: 0674-2748509)
3. Regional Executive Director (East-II), 3<sup>rd</sup> Floor, OCHC Building (New), 24, Janpath, Bhubaneswar - 751001 (Fax No. 0674-2394857)
4. Chief General Manager (RT & C), OPTCL, Janpath, Bhubaneswar-751022 (Tel FAX-0674 2542 120)

### SIKKIM

1. CE (Trans.), Dept. of Power, Govt. of Sikkim, Gangtok.-737 101 (Fax: 03592-201148 / 202927)
2. Addl. Chief Engineer (SLDG/THV), Dept. of Power, Govt. of Sikkim, Kazi Road, Gangtok-737101 (FAX:03592 202927/209199)

### WR (MP)

1. Chief Engineer (Commercial), M.P. Power Management Co. Ltd., Shakti Bhawan, Vidyat Nagar, Rampur, Jabalpur-482008 (Fax No. 0761-2661884)
2. Member Secretary, WRPC, MIDC Area, Marol, Andheri(E), Mumbai-400093 (Fax : 022-2837-0193).

### NTPC

1. GM (Comm), NTPC Ltd, 7 Institutional Area, Lodhi Road, New Delhi-3 (Fax: 011-24360318 / 24368417)
2. AGM (Comm), NTPC Ltd, Lakshayak Jaiprakash Bhawan, 2<sup>nd</sup> floor, Dak Banglow Chowk, Fraser Road, Patna-800 001. (Fax : 0612-2230035 / 2224287,2211807)

### PGCIL

1. AGM (Comm.), PGCIL, "Saudamini", Plot No.2, Sector -29, Gurgaon-122001, Haryana (Fax : 0124-2571760)
2. Addl. General Manager (Commercial), ERTS-I, POWERGRID, Boring Road, Alankar Place, Patna-800001. (FAX: 0612 2234097/2228984)

### NLDC/RLDC

1. ED-NLDC, POSOCO, H-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-16 (Fax:01126524525)
2. GM, WRLDC, MIDC Area, Marol, Andheri (E), Mumbai-400093 (Fax: 022-28235434)
3. ED, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata-33 (Fax: 033-24235809, 2423 3648)



Revised RTDA Statement on account of change of COD of Unit 4 of Barh Stage-II in the period 15.11.14-07.03.16 as per CERC order dated 20.09.17 in Petition No. 130/MP/2015

I. Calculation of Transmission Deviation Charge of Barh St-II Unit 4 INFIRM for the period 15.11.2014-07.03.2016

Month	BARH INFIRM	
	Energy(MWh)	Transmission Deviation Charges (Rs)
Nov-14	147838.6283	18138992.91
Dec-14	-1790.672875	141139.3864
Jan-15	185496.4533	23861851.44
Feb-15	4998.809211	713332.4712
Mar-15	301117.2255	38614510.34
Apr-15	-14030.74882	248875.3883
May-15	279862.4299	36026174.31
Jun-15	-594.2484	87466.9676
Jul-15	338261.9161	42312871.89
Aug-15	358.277628	34830.51175
Sep-15	131428.3858	7943172.063
Oct-15	3961.351271	512961.0866
Nov-15	219920.8502	13026028.71
Dec-15	1528.841283	198878.4811
Jan-16	275236.2573	19445388.19
Feb-16	-1492.88	138112.238
Mar-16	272266.3904	18725454.92
Apr-16	-861.889	81174.3503
May-16	271717.2617	22880602.71
Jun-16	-270.5603	11991.92641
Jul-16	339987.6225	21223993.6
Aug-16	790.76864	141668.4863
Sep-16	172286.3181	17649872.79
Oct-16	0	0
Nov-16	361141.8341	1609638.07
Dec-16	0	0
Jan-17	505082.808	19887417.89
Feb-17	728.299	159477.2813
Mar-17	241286.6568	21217741.33
Apr-17	0	0
May-17	222118.84	1877668.13
Jun-17	1363.546	311366.1998
Jul-17	95746.85966	6887425.876
Total Rs	0	0

(\*) - Injection of Energy  
(+) - Drawal of Energy

So Transmission Deviation Charges payable by Barh St-II Unit 4 INFIRM for the period 15.11.14-07.03.16 = Rs. 35.715 Crore

II. Adjustment of Transmission Deviation Charge of Barh St-II Unit 4 for the period 15.11.2014-07.03.2016

Month	TRANSMISSION DEVIATION CHARGE UPTO PERMITTED LIMIT (Rs.)	TRANSMISSION DEVIATION CHARGE BEYOND PERMITTED LIMIT (Rs.)
Nov-14	85801	294716
Dec-14	0	1019730
Jan-15	0	407633
Feb-15	0	118755
Mar-15	0	172808
Apr-15	0	836240
May-15	0	376793
Jun-15	0	240281
Jul-15	0	35002
Aug-15	0	68123
Sep-15	0	138141
Oct-15	0	0
Nov-15	0	0
Dec-15	0	0
Jan-16	0	180362
Feb-16	1723.04	0
Mar-16	1048.74	402668
Apr-16	26368.3	0
Total Rs.	2.66 Lakhs	42.48118 Lakhs

So the following adjustments have to be done

A) Rs 2.66 Lakhs to be refunded to the beneficiaries for the above period

Month	BSPHCL	JALM	GRDCCO	BARH	WSPHCL
Nov-14	100.229528	0.233606	15.259607	1.696779	23.1018
Jan-16	1319.259246	127.8320016	751.837816	26.195200	0
Feb-16	601.4261325	74.5759646	134.812846	15.313448	0
Mar-16	2014.282715	18756.34197	28617.37108	3689.51784	0
Total Rs.	39389.4	18963	29241	4943	23

B) Rs 42.48118 Lakhs to be refunded to Barh for the above period

# पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)

## POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)



पावरग्रिड

केन्द्रीय कार्यालय: "सौदामिनी" प्लॉट नं. 2, सेक्टर-28, गुरुग्राम-122 001, (हरियाणा) दूरभाष: 0124-2571700-710, फैक्स: 0124-2571762, "Saudamini" Plot No. 2, Sector-28, Gurgaon-122 001, (Haryana) Tel.: 0124-2571700-710, Fax: 0124-2571762, Web.: www.powergridindia.com

CIN : L40101DL1989GOI038121

Ref: CC:Comm1:NTPC-Barh

Date: 06.09.2019

To,  
Mr. Sunit Kumar  
Addl. General Manager (Comm1)  
Eastern Region-I Hqs,  
Loknayak Jaiprakash Bhawan,  
2nd floor Dak Bunglow Chowk, Fraser Road,  
Patna-800001, Bihar

Sir,

**Subject: Regarding RTDA bill dtd. 08.07.2019 in respect of Barh STPS Stage-II Unit-IV.**

Ref.: 1. ERPC Letter ERPC/COM-1/REA/2018/3780-3798 dtd. 02.02.2018  
2. RTDA Bill-4 dtd 08.07.2019  
3. Your letter dtd. ER-I/HQ/COMML/PGCIL/15 dtd 08.08.2019

This is with reference to your letter dtd 08.08.2019 on the subject matter.

It may be mentioned that CTU raised the RTDA bill amounting to Rs. 34,75,01,882/- as per Regional Transmission Deviation Account(RTDA) issued by ERPC vide letter dtd 02.02.2018 referred above. In this regard, please refer to the CERC order dated 20.09.2017 in your petition no. 130/MP/2015 wherein the Hon'ble Commission directed to treat the power injected from Barh STPS Unit-IV as infirm power during the shifting of COD period. As per the CERC Sharing Regulations, the generator is liable to pay deviation transmission charges for the infirm power during that period and the quantum of such transmission charges was notified by ERPC vide the RTDA dtd 02.02.2018 and CTU is mandated to raise the Bill 4 on NTPC-Barh accordingly.

Further, from the quoting of aforementioned CERC Order indicated in your letter that "28. Power injected .. shall be treated as infirm power..... during the period. The revenue earned over and above the fuel cost from sale of infirm power from 15.11.2014 to 07.03.2016 shall be adjusted in the capital cost", it appears that the direction of Hon'ble Commission refers only to adjustment of excess energy charges already received by NTPC in the capital cost, whereas, the liability of NTPC to pay the transmission charges for the said infirm power arise from the provisions of CERC Sharing Regulations and is independent of the above direction of Hon'ble Commission. Accordingly, the RTDA bill is payable by NTPC as per the regulations and on payment of the transmission charges by them, the same shall have to be adjusted against the transmission charges of long term customers by the CTU as per the Sharing Regulations.

In view of above, it is requested to admit the RTDA bill dtd 08.07.2019 and release the payment accordingly. It may be noted that delay in payment against the bill is also attracting surcharge @ 18% per annum as per the provisions of the Regulations.

Thanking you

Yours faithfully,

(V. Srinivas)

Sr. General Manager(Comm1), CTU

CC:

1. Secretary, CERC, 3&4<sup>th</sup> Floors, Chandralok Building, Janpath, New Delhi -110001
2. Member Secretary, ERPC, 14, Golf Club Road, Tollygunje, Kolkata-700033
3. Sr.General Manager(Commercial), POWERGRID, ER-I, Patna.



एक नन्दम स्वच्छता की ओर

पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)

POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)



पावरग्रिड

पूर्वी क्षेत्र -I क्षेत्रीय मुख्यालय : बोर्ड कॉलोनी , शास्त्री नगर , पटना - 800023 (बिहार), दूरभाष : 0612-2283002 (इपीएबीएक्स)  
 Eastern Region -I RHQ. : Board Colony, Shastri Nagar, Patna - 800023 (Bihar), Tel. : 0612-2283002(EPABX)

CIN : L40101 DL 1989 GOI 038121

Ref PG/ER-I/RHQ/COMML/WBSEDCL/13/147

Date 10/10/2019

To,

The Chief Engineer (PTP),

West Bengal State Elect. Distribution Co. Ltd.(WBSEDCL),

7th floor, DJ Block, Vidyut Bhavan, Salt Lake City, Kolkata: 700091

**Kind Attn.: Shri Santanu Sarkar****Sub: Request for release of payment of withheld RTDA charges bills**

Dear Sir,

- 1.0 ERPC issues monthly Regional Transmission Deviation Accounts(RTDA) as per clause no. 10.1(d) of CERC (Sharing of Inter-state transmission charges and losses) Regulation 2010 & CTU raises the transmission deviation bill based on RTDA issued by ERPC as per clause no. 11.7 of CERC (Sharing of Inter-state transmission charges and losses) Regulation 2010.
- 2.0 However, WBSEDCL since long back has not admitting RTDA bill which amounting to **Rs 2,17,92,680/-** as per last reconciliation signed (Copy Enclsoed). A meeting had also been held at your office on 24-09-2019 regarding subject matter. It is understood from discussion that there is no such mechanism to calculate the transmission deviation charges against each intra state entity & the matter is with WBERC for proper transmission deviation charges sharing methodology.
- 3.0 As the matter is pending in WBERC since long back & the above said amount pending for more that 45 days. It is requested to kindly admit the bills & released payment at earliest so the same could be disbursed to DIC's.

Thanking you.

Yours faithfully,

  
 (M.K. Agarwal)

Sr. GM (Comml.) &amp; CPIO, ER I

CC:

1. **Shri Ajay Kumar Pandey, Diector(R&T), WBSEDCL, Kolkata - For Kind intervention please.**

पंजीकृत कार्यालय: बी-9, क़ुलाब इंस्टीटुशनल एरिया, क़ातुवार्ला सारसी, नूव ड़ेलही-110016 दूरभाष: 011-26560112, 26560121, 26564812, 26564892, वेबसाइट: www.powergridindia.com  
 Registered Office : B-9, Qulab Institutional Area, Katwarla Sarai, New Delhi-110016 Tel.: 011-26560112, 26560121, 26564812, 26564892, Web.: www.powergridindia.com



स्वहित एवं राष्ट्रहित में ऊर्जा बचाएँ

Save Energy for Benefit of Self and Nation

**Power Grid Corporation of India Limited**  
**Eastern Region-1, Commercial Department, PATNA**  
**Reconciliation of PoC Charges from 01/04/2019 to 30/06/2019. Constituent : WBSEDCL.**



Sl.	Description	Type of Bill	Bill No.	Bill Date	Bill Amount	Adjusted Amount	DPP. Amount	Payment Details			Balance	Tax Deducted at Source	Total	OS. for per WBSEDCL	OS. Arrear (WBSEDCL)	Reconciliation	
								BTDC Charges	Date	Amount Paid							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1	As per the Reconciliation Signed for the Period from 01/04/2019 to 30/06/2019 (Date: 12/08/2019)				26,54,207.20	14,70,96,024	1,88,81,416			12,88,15,077	1,76,00,000	1,84,00,000	1,88,00,000	1,88,00,000	1,88,00,000		
	Payment Received Value	Bill # 1	910079	11/04/19				BTDC	11/04/19	1,00,00,000			20,00,000	17,00,00,000			
	Payment Received Value	Bill # 1	910043	09/04/19				BTDC	09/04/19	60,00,000			40,00,000	40,00,00,000			
	Payment Received Value	Bill # 1	01107010700001	01/08/19				BTDC	09/04/19	10,00,000			30,00,000	10,00,00,000			
	Payment Received Value	Bill # 1	01107010700001	15/08/19				BTDC	15/08/19	10,00,000			10,00,000	10,00,00,000			
	BTDC charges bill for the month of April				68,99,00.00	68,99,00.00		BTDC	09/04/19	68,99,00.00			68,99,00.00	68,99,00.00			
2	Trade for STDS	Bill #	910043	09-04-2019	(1,00,00,000)	(1,00,00,000)							(1,00,00,000)	(1,00,00,000)			
	Utility Adjustment										1,00,000		1,00,000	(1,00,000)			
3	Bill of Supply for POC 100 KV for October 2018 to December 2018	Bill #	910033	15/10/18	20,77,47,390	20,77,47,390		BTDC	15/10/18	20,77,47,390			20,77,47,390				
	Trade for STDS	Bill #	910033	15-10-2018	(20,77,47,390)	(20,77,47,390)								(20,77,47,390)	(20,77,47,390)		
4	Bill of Supply for POC 100 KV for April 2019	Bill #	910033	15-04-2019	11,21,73,417	11,21,73,417		BTDC	10/04/19	11,21,73,417			11,21,73,417				
	Trade for STDS	Bill #	910033	15-04-2019	(11,21,73,417)	(11,21,73,417)								(11,21,73,417)	(11,21,73,417)		
5	Bill of Supply for POC 100 KV for May 2019	Bill #	910033	15-05-2019	11,21,73,417	11,21,73,417		BTDC	10/04/19	11,21,73,417			11,21,73,417				
	Trade for STDS	Bill #	910033	15-05-2019	(11,21,73,417)	(11,21,73,417)								(11,21,73,417)	(11,21,73,417)		
6	Bill of Supply (Domestic Charges) for POC 100 KV for April 2019 to December 2018 (Bill No. 910033)	Bill # 1	910033	15-04-2019	20,77,47,390		20,77,47,390										
7	Bill of Supply for POC for January 2019 to March 2019	Bill #	910034	21-04-2019	1,04,10,079	1,04,10,079							1,04,10,079	1,04,10,079			
<b>Sub Total:-</b>					<b>1,48,70,41.79</b>	<b>1,48,70,41.79</b>	<b>17,00,000</b>			<b>1,31,62,13.08</b>	<b>1,27,00,000</b>		<b>1,34,00,000</b>	<b>(1,34,00,000)</b>	<b>(1,34,00,000)</b>		
<b>Total PoC Bills upto 30-06-2019</b>					<b>26,25,56,92.08</b>	<b>14,20,76,84.88</b>	<b>1,77,81,416</b>			<b>11,22,17,077</b>	<b>1,76,00,000</b>	<b>1,84,00,000</b>	<b>1,88,00,000</b>	<b>(1,88,00,000)</b>	<b>(1,88,00,000)</b>		

*Handwritten Signature*  
**SREYASI MONDAL**  
 Superintending Engineer (E)  
 For & on behalf of P.O. & C.E. WBSEDCL  
 Kolkata

*Handwritten Signature*  
**Dr. Manoj Kumar** (F.O.)  
 For & on behalf of WBSEDCL, Patna  
 Kolkata

*Handwritten Signature*  
**MANJUNATH**  
 Chief Manager (Control)  
 For & on behalf of POWER GRID CORPORATION OF INDIA LIMITED  
 100, Noida, Uttar Pradesh - 201301  
 WBSEDCL, Patna, Bihar, India - 800001  
 Board Office, Street No. 1, Patna - 800001

No. 40/1/2021-R&R  
Government of India  
Ministry of Power  
\*\*\*

Shram Shakti Bhawan, Rafi Marg,  
New Delhi, 18<sup>th</sup> March, 2021

To

CMD

NTPC, NHPC, DVC, NLC, SECI

PGCIL, POSOCO, SJVN, NEEPCO, THDC

**Subject: Review of payment security mechanism for payment of dues by Discoms to Gencos and Transcos.**

Sir,

As you are aware, a payment security mechanism has been operative since 01.08.2019 under which the payment for supply of power or transmission of electricity is secured through the Letter of credit or advance payment. This is required to maintain the viability of the power sector. The onset of Covid-19 pandemic in 2020 has affected the payment mechanism though Liquidity Infusion under Atma Nirbhar Bharat Abhiyan gave a window to Discoms to clear dues by availing loans from PFC/REC.

2. This Ministry has been receiving representations from the Gencos and Transcos with respect to non-payment of dues and accumulation of arrears. Hon'ble MOS(IC) for Power & NRE has reviewed the status of payment security mechanism on 01.03.2021. It was brought to the notice that even the current dues are not getting liquidated in time which is leading to accumulation of dues.

3. The following directions are hereby given to all the Central Gencos and Transcos for strict compliance:-

- a) Current bills after 01.02.2021 need to be liquidated in time. For current dues beyond specified number of days i.e. say 45 days, the LC (Letter of Credit) has to be invariably encashed. The power supply shall start only if there is a valid LC or if the advance payment is made by the Discoms.

- b) In case of accumulated dues of period before 01.02.2021, the Discoms and Gencos/Transcos must work out an installment plan for payment on monthly/bimonthly basis by the Discoms and any failure on part of DISCOMs/State Government to pay the said installments on time will result in the regulation of power supply and/or invocation of tripartite agreement between the State Government, Ministry of Power and the concerned Gencos/Transcos.
- c) Correct information is to be entered on the portal being maintained by POSOCO as per the standard operating procedure for scheduling of power with respect to LC issued by MoP.
- d) For regulation of power the Gencos and Transcos must give advance notice to the State Government and release daily Press Note to the general public and consumers to create awareness about the circumstances as stated above to initiate regulation and invocation of tripartite agreement to recover the dues.
4. All Central Gencos and Transcos are required to comply with the orders issued by the Central Government in this regard from time to time.

Yours faithfully,



(D. Chattopadhyay)

Deputy Secretary to the Govt. of India

Tel: 2371 5250

Email Id: debranjan.chattopadhyay@nic.in

**Copy to:**

- i. PS to Hon'ble MoS(IC) for Power and NRE
- ii. Sr. PPS to Secretary (Power),
- iii. PPS to AS(SKGR), PPS to AS(VKD), PPS to Senior Adviser
- iv. All Joint Secretaries/Chief Engineer of MoP
- v. CMD PFC, REC,

**Power Grid Corporation of India Limited  
(Central Transmission Utility)**

Ref: C/CTU/BCD/

Date: 01-01-2021

**Billing, Collection & Disbursement Procedure as per Clause 3 of Regulation 23 of  
Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges  
and Losses) Regulations, 2020**

- 1.0 As per Clause 3 of Regulation 23 of CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020, a draft Billing, Collection & Disbursement (BCD) Procedure was prepared and circulated vide CTU letter dated 02.11.2020 to the Stake Holders for their suggestions/comments.
- 2.0 Suggestions/comments have been received from UPPCL, TPDDL, GRIDCO, BRPL, PCKL, Indigrd, POWERGRID TBCB, EPTA, ATIL, KSEB, WBSEDCL, POWERLINK Trans. Ltd, MPPCL, GUVNL, TS Transco, East Central Railway, Adani Power (Mundra) Ltd. After considering suggestions/comments, necessary changes have been incorporated and BCD procedure has been finalized.
- 3.0 The Billing, Collection & Disbursement (BCD) Procedure is given below for implementation.



## **Billing, Collection and Disbursement (BCD) Procedure As Per CERC Sharing Regulations, 2020**

### **1.0 General Provisions**

- 1.1 **The procedures laid down herein are in compliance** of the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 hereinafter referred as "Sharing Regulations 2020".
- 1.2 The procedure is subject to any subsequent amendments in the Sharing Regulations 2020 and/or the orders from the CERC in this regard.
- 1.3 Provisions of this procedure shall be applicable from the date the Sharing Regulations 2020 comes into force.
- 1.4 In case of any conflict in interpretations between this procedure and Sharing Regulations, 2020, the Sharing Regulations, 2020 will prevail.
- 1.5 Definitions:
  - a) RTM Projects: 'Regulated Tariff Mechanism projects' means the Inter-State Transmission System Projects whose tariff is determined by CERC according to the applicable Tariff Regulations.
  - b) TBCB Projects: 'Tariff Based Competitive Bidding Projects' means the Inter-State Transmission System Projects whose tariff is discovered through TBCB route, which is adopted by CERC.
  - c) 'MTC' means monthly transmission charges as defined in sub clause (n) of Clause (1) of Regulation 2 of Sharing Regulations, 2020.
  - d) 'RPC' means Regional Power Committee.

### **2.0 Contact Person & Contact details**

- 2.1 Each DIC shall identify & inform one main and one alternate designated person authorized to process bills, raising & resolving any dispute regarding bills raised by CTU, releasing payment and signing reconciliation of accounts with CTU. DIC shall also designate & inform official mail ID, which is not personal ID, for sending bills & other correspondence through e-mail. DIC shall provide the information to the CTU as per format given at **Annexure-1**.
- 2.2 Each ISTS Licensee shall identify & inform one main and one alternate designated person authorized to submit YTC data, raising & resolving any dispute regarding billing done & payment disbursed by CTU, and signing reconciliation with CTU. ISTS Licensee shall also designate & inform official mail ID, which is not personal ID, for sending details of disbursement & other correspondence through e-mail. ISTS licensee shall provide the information to CTU as per format given at **Annexure-2**.

- 2.3 Chairman & Managing Director of Central Transmission Utility or his nominated authority shall notify the Authorized Signatories (official designation only) for signing the bills raised by CTU, in advance and any change in the list of Authorized Signatory shall be communicated in the same manner from time to time.
- 2.4 The DICs and ISTS Licensees shall furnish aforementioned nominations of main and alternate designated representatives within 15 days after publishing of BCD procedure on CTU website. It shall be incumbent upon them to convey any subsequent change in the same within seven (7) working days of the same taking effect. New DICs and ISTS licensees coming later shall provide above information, including account details atleast 30 days before commencement of their billing.

### 3.0 Billing

- 3.1 CTU shall raise the First Bill for billing period as per Regulations 5 to 8 of Sharing Regulations 2020 in the first week of relevant billing month as per procedure given below :-
- a) First Bill shall be raised within one(1) working day after publishing of Regional Transmission Account (RTA) by Regional Power Committees (RPCs) of respective region as per the timeline given in the Sharing Regulations, 2020.
  - b) In case RTA is not published by the 4<sup>th</sup> day of the billing month, CTU shall raise provisional first bill on the next working day of the billing month as per the last available RTA. Subsequently, CTU shall raise adjustment bill within two working days after publishing of RTAs by all RPCs for the billing month after considering provisional first bill.
  - c) Transmission Charges for STOA transactions paid by an embedded intra-state entity located in a state for a billing period, shall be adjusted to the State/State DISCOMs in the First Bill in the following billing month.
  - d) Transmission Charges for STOA transactions paid by a DIC with untied LTA, as STOA applicant, shall be offset against the transmission charges payable by the DIC in the First Bill in the following billing month.
  - e) Transmission charges for STOA transactions collected in a billing month, after adjustment as per clause 3.1(c) & 3.1(d) above, shall be adjusted to the DICs in the following billing month in proportion to their share in the first bill.
  - f) Payment received towards deviation charges during a billing month shall be adjusted to DICs in proportion to their share in the first bill in the following billing month.

3.2 CTU shall raise the Second Bill as per schedule and procedure given below:

- a) Second bill shall be raised on quarterly basis for April to June(Q1), July to September(Q2), October to December (Q3) and January to March(Q4) period. The bill shall be raised in the first week of September, December, March and June for Q1,Q2,Q3 and Q4 respectively.
- b) One month prior to raising the second bill, ISTS licensee shall submit to CTU, the final monthly transmission charges for the billing period which is inclusive of approved MTC, incentive based on the certified transmission system availability by RPCs and any other charges leviable as per CERC Regulations/orders etc. in the prescribed format as per **Annexure-3** in the form of excel sheets, PDF copy / hard copy duly signed by the designated official of the ISTS Licensee.
- c) Incentive/penalty for transmission system availability for transmission system under RTM projects shall be calculated as per applicable CERC Tariff Regulations issued from time to time.
- d) Incentive/penalty for transmission system availability for TBCB projects shall be calculated as per respective Transmission System Agreement.
- e) ISTS licensee shall include any revenue to be shared with DICs as per CERC (Sharing of Revenue derived from utilization of transmission assets for other business), Regulations 2020 alongwith support documents in second bill on quarterly basis.
- f) ISTS licensee (RTM) shall include in second bill, any net savings in interest resulting from re-financing or restructuring of loan to be shared with DICs as per CERC (Terms & Conditions of Tariff) Regulations, 2019, as amended from time to time, alongwith support documents.
- g) ISTS Licensee shall have to submit necessary documents such as availability certificates issued by RPCs, CERC orders, Tariff adoption orders etc. in support of their calculations without which the MTC as submitted to implementing agency, shall only be considered for the Second bill for the period under consideration, after necessary prudence check.
- h) Difference of transmission charges arising out of Tariff determination by CERC shall be calculated separately and furnished by ISTS Licensee in the prescribed format given at **Annexure-4** along with necessary supporting documents such as relevant CERC order, bank rate certificates etc.

- i) In case any revision in LTA quantum of DICs, relinquishment of LTA quantum, change in YTC etc for retrospective period due to Orders of CERC / APTEL/ any other appropriate authority, adjustments among the DICs(recovery /refund wrt YTC) on account of such revision shall be done in second bill as per proviso to regulations 15(2b) of Sharing Regulations, 2020.
- j) Any other charges as approved by CERC and to be claimed in addition to MTC shall be indicated separately and necessary support documents shall be submitted by the ISTS Licensee without which billing of such charges shall not be included in Second Bill.
- k) The supporting documentation of bills to be submitted by the ISTS Licensees shall be limited to only to the relevant extracts of the documentation / orders as applicable and shall be kept to a minimum to avoid inconvenience in uploading the bills on CTU website.
- l) After coming into force of Sharing Regulations 2020, Second bill for relevant billing period shall be raised as per illustrations given below:

Date of implementation: 01.11.2020

Billing Month	A			B			C = A-B	Second Bill Amount
	MTC for Previous Month#			Actual Billing (First Bill)			Shortfall in Billing	
	Existing Project	New Project	Total	Existing Project	New Project	Total		
Nov-20 (As per SR2010)	2800	50	2850	2800	50	2850	0	60*
Dec-20 (As per SR 2010)	2850	60	2910	2850	0	2850	60	
Jan-21 (As per SR 2020)	2910	0	2910	2850	60	2910	0	
Feb-21	2910	30	2940	2910	0	2910	30	30**
Mar-21	2940	0	2940	2910	30	2940	0	
Apr-21	2940	0	2940	2940	0	2940	0	
May-21	2940	60	3000	2940	0	2940	60	60***
<b>Total</b>	<b>20290</b>	<b>200</b>	<b>20490</b>	<b>20200</b>	<b>140</b>	<b>20340</b>	<b>150</b>	<b>150</b>

\*Second Bill to be raised in March' 2021

\*\*Second Bill to be raised in June' 2021

\*\*\*Second Bill to be raised in September' 2021

#As per Tariff Regulations /TSA

3.3 CTU shall raise the Third Bill as per the procedure given below:

- a) Third Bill shall be raised on the next working day after publishing of Regional Transmission Deviation Account (RTDA) by Regional Power Committees (RPCs) of respective region.

3.4 CTU shall raise the Surcharge Bills as per following procedure:

- a) The late payment surcharge shall be as per Regulation 18 of Sharing Regulations 2020 as amended from time to time.
- b) Surcharge on outstanding dues of First Bill and Second Bill beyond due date shall be calculated and billed on monthly basis.
- c) Surcharge on outstanding dues of Third Bill beyond due date shall be calculated and billed on monthly basis. Payment received against this surcharge bill shall be adjusted to the DICs in the ratio of First Bill.

3.5 Any revision in billing for the period prior to coming into force of Sharing Regulations, 2020, shall be done in accordance with the prevailing regulations.

### 3.6 Transition billing

In order to ensure smooth shifting of the billing from the Sharing Regulations, 2010 to Sharing Regulations, 2020, the transition billing shall be done as per the provisions of the Sharing Regulations, 2020.

### 3.7 Uploading and raising of Bills

- a) The CTU shall upload the Bills on its website, to facilitate DICs to download the bills.
- b) The CTU shall also send the PDF copy of the Bills through e-mail to the official e-mail address of the DICs.
- c) The date of e-mail sent to the DICs forwarding the bill shall be the date of presentation of the Bill, Provided the e-mail is sent within the working hours i.e. upto 5:30 PM else the date of presentation of bill shall be considered on the following day. Original invoice shall be sent subsequently for records.

## 4.0 Payment

### 4.1 Mode of payment

- a) The payment by DICs to CTU shall be executed through National Electronic Funds Transfer (NEFT) or Real Time Gross Settlement (RTGS) or any other means of

electronic transfer approved by the Reserve Bank of India in the designated account of CTU as mentioned in the bills raised by CTU.

- b) Due date of the payment shall be 45 days from presentation of bill as per Regulation 16 of the Sharing Regulations 2020 or as amended from time to time.
- c) Except for the due date being a Bank Holiday, any delay in transfer of money to the Designated Account of CTU due to any other reasons shall be to the account of the concerned DIC. Date of payment shall be the date of actual credit of payment into designated account of CTU.

#### **4.2 Rebate**

- a) Rebate shall be allowed on the timely payment as per Regulation 17 of Sharing Regulations 2020 as amended from time to time.
- b) Rebate deducted by a DIC from payment against First & Second Bill shall be reviewed and any adjustment due to wrong deduction of rebate by the DIC shall be made in the First Bill in the following month.
- c) Rebate deducted by a DIC from the payment against Third Bill shall be reviewed and any adjustment due to wrong deduction of rebate by DICs shall be made in the subsequent Third Bill in the following month.

#### **4.3 Payment Information**

- a) DICs shall provide the information of payment for each and every transaction made through electronic transfer to designated account of CTU, strictly adhering to the format prescribed at **Annexure-5** compulsorily within One(1) working days of making any transaction to facilitate timely settlement of bills.

#### **4.4 Adjustment of Payment**

- a) The payment received from a DIC shall be first adjusted towards late payment surcharge on the outstanding dues and thereafter, towards other outstanding bills, starting from the longest overdue bill (FIFO method), as indicated in 20 (6) of Sharing Regulations 2020.
- b) Payment made by DICs shall be adjusted against the outstanding bills on First-In-First-Out (FIFO) principle i.e. oldest bills shall be cleared first.

#### **5.0 Disbursement**

##### **5.1 General**

- a) After getting payment information from DICs, CTU shall disburse the amount received in designated account.

- b) The disbursements to ISTS Licensees shall be made in a pro-rated manner. Shortfall in collection against any bill shall result in Pro-rata reduction in disbursement to ISTS licensees.
- c) Rebate deducted by DICs shall be apportioned in the ratio of billing and adjusted in the ISTS Licensee account.
- d) Any Tax deducted by DICs shall be apportioned and adjusted with the ISTS Licensee in whose name TDS has been deducted and corresponding TDS certificate issued by DIC.

**5.2 Disbursement to ISTS Licensees**

- a) Payment received against First Bill shall be disbursed to ISTS Licensees in the ratio of their MTC approved by Implementing Agency and furnished to CTU in writing.
- b) Payment received against Second Bill shall be disbursed to ISTS Licensees in the ratio of respective Second Bill Amount of ISTS Licensees as calculated by CTU.
- c) Payment received against Third Bill shall be disbursed to ISTS Licensees in the ratio of MTC of First Bill in which adjustment for such payment has been given to DICs.
- d) Payment received against STOA transactions shall be disbursed to ISTS Licensees in the ratio of MTC of First Bill in which adjustment for such payment has been given to DICs.
- e) Surcharge payment received against First and Second Bill shall be disbursed to ISTS Licensees in the ratio of respective surcharge amount of ISTS Licensees as calculated by CTU.

**5.3 Refund Payments to be made by the ISTS Licensees (owing to over recovery)**

- a) In case any refund by the ISTS Licensee arises due to revision in tariff by CERC or due to other reasons, then the ISTS licensee shall incorporate the same in its claim to the CTU along with calculations of refundable amount & interest, as applicable and supporting documentation in the upcoming second bill to be submitted by them.
- b) ISTS Licensee while submitting its claim as above, shall also transfer such refund amount to the designated account of CTU for passing onto the DICs through adjustment in their Second bill.
- c) In case the ISTS Licensee does not submit its claim in time or does not refund the excess amount, the subsequent disbursement to such ISTS Licensee shall be stopped till such refund is completely recovered as per Sharing Regulations, 2020.

#### 5.4 Tax and other Deductions

- a) All payments required to be made under this procedure shall include taxes and any deduction, as required by the Law.

#### 5.5 Tax Deducted at Source (TDS)

11/11  
All DICs are obligated to submit TDS certificate for any tax deducted at source from payment against any bill in a quarter within one month from the end of the quarter. The TDS certificate shall be issued as per applicable provisions of Income Tax Act, 1961 as amended from time to time.

2-9-  
Provided that in case the TDS certificates are not furnished within six months after the end of the quarter, such TDS amount deducted by DIC shall be treated as outstanding amount.

#### 5.6 Timelines for disbursement by the CTU

- a) The disbursement of payment of transmission charges to the ISTS Licensees for each Bill shall be made on a rolling basis within three (3) Working Days of receiving the payment information, i.e details of bill against which the payment is made, from the DIC.

#### 5.7 Modality of disbursements

- a) The CTU shall arrange to credit the disbursements to the bank accounts of ISTS Licensees directly through NEFT/RTGS. CTU shall enter into appropriate arrangements with its bank to facilitate such disbursements, as mentioned in Clause 5.2 above. Any delays by the bank in relation to such disbursements shall not be attributable to the CTU
- b) All disbursements by CTU shall be executed through NEFT/RTGS. The CTU shall, notify the ISTS Licensees of the payments made to their respective bank accounts in the form of a detailed Disbursement Advice furnishing the details of payments against the bills, based on which periodical reconciliation shall be done.
- c) The cost of NEFT/RTGS transactions or any other charges for such transactions, if any, shall be to the account of the concerned ISTS Licensee.

#### 5.8 Change of Bank Account

- a) On request of the ISTS Licensee in the prescribed format as per Annexure-6, CTU shall change the Bank account details of ISTS Licensees in its records within 30 days of receipt of such request for disbursement of payments.



## 6.0 Reconciliation

### 6.1 Quarterly Reconciliation between CTU and DICs

- a) After the end of the quarter, CTU shall prepare and submit the quarterly reconciliation to the DICs for their verification and signing.
- b) In case no observation/objection is received from the DICs within the time as specified in clause 6.1 (f) after submission of reconciliation by CTU, reconciliation shall be treated as final statement.
- c) In case, observations are received, CTU shall review the same and submit the revised Reconciliation, if required, incorporating the observations of the DICs along with explanation for non-consideration of DICs observations/objections, if any.
- d) DICs shall return the duly signed reconciliation to CTU after final submission of reconciliation by CTU.
- e) Any bill dispute which has not been intimated by DICs as per bill dispute resolution process of this procedure shall not be considered in the reconciliation.
- f) Process of quarterly reconciliation shall be completed in a time bound manner as per timelines given below:

Sr. No.	Description	Timeline
01	Submission of Reconciliation Statement by CTU	By 30 <sup>th</sup> day after end of quarter
02	Observations to be submitted by DICs	Within next 10 days
03	Submission of revised reconciliation alongwith clarification to observations of DIC (if required)	Within next 7 days
04	Signing of reconciliation by DICs	Within next 7 days of receipt of final statement

### 6.2 Reconciliation between CTU and ISTS Licensees

- a) Reconciliation with ISTS Licensee shall be done on Bi-Annual basis for January to June and July to December period.

- b) After end of the period as mentioned above, CTU shall prepare and submit the reconciliation data to ISTS Licensees. In case no observation/objection is received from the ISTS Licensee within the time as specified in clause 6.2 (f) after submission of reconciliation by CTU, reconciliation shall be treated as final statement.
- c) In case, observations are received, CTU shall review the same and submit the revised Reconciliation, if required, incorporating the observations of the ISTS Licensee along with explanation for non-consideration of observations/objections of ISTS Licensee, if any.
- d) ISTS Licensees shall return the duly signed reconciliation to CTU after final submission of reconciliation by CTU.
- e) Reconciliation shall be done considering the MTC data/billing data submitted by ISTS Licensees to the Implementing Agency & CTU as per approved tariff by CERC and the disbursement of payments by CTU to the ISTS Licensee.
- f) Process of Bi-Annual Reconciliation shall be completed in a time bound manner as per timelines given below:

Sr. No.	Description	Timeline
01	Submission of Draft Reconciliation by CTU	By 30 <sup>th</sup> day after end of period
02	Observations to be submitted by ISTS Licensees	Within next 15 days
03	Clarification to observations of ISTS Licensees and submission of revised reconciliation, if required, by CTU	Within next 15 days
04	Signing of reconciliation by ISTS Licensees	Within next 15 days of receipt of final statement.

## 7.0 Reporting requirements

7.1 CTU shall furnish details of billing & disbursement to the ISTS Licensees as per following schedule:

- a) Details of billing on monthly basis.
- b) Details of disbursement of payments (in the form of Disbursement Advices) on fortnightly basis.

## **8.0 Letter of Credit**

- 8.1 Letter of credit and Payment Security Mechanism shall be regulated as per Regulation 19 of Sharing Regulations 2020, as amended from time to time.
- 8.2 Standard terms & conditions of letter of credit to be established by DIC shall be as per Annexure-8.

## **9.0 Billing of Transmission Charges under specific Cases (Bilateral Billing)**

- 9.1 Bills on behalf of ISTS Licensees for their Assets not covered under Regulations 5 to 8 and covered under Clauses (3), (6), (8), (9) and (12) of Regulation 13 of Sharing Regulations 2020 shall be raised as per following procedure:
- a) ISTS Licensee, whose assets are covered under Clause (3), (6), (9) & (12) of Regulations 13 shall submit their YTC data to Implementing Agency.
  - b) Generator, who has to receive YTC from ISTS Licensee as per Clause (8) of Regulation 13, shall submit its claim to the Implementing Agency.
  - c) Implementing Agency shall inform the RPCs on the claims of ISTS Licensees / Generators as at 9.1 (a & b) above for incorporating in the RTA for billing under specific cases.
  - d) After publishing the RTA, CTU, along with First Bill, shall also raise the bilateral bill on behalf of the ISTS Licensee/Generator for specific cases to entities from whom transmission charges are to be recovered.
  - e) After receipt of the payment against the bills raised for specific cases, same shall be disbursed to concerned ISTS Licensee/ Generator.
  - f) Paying entity shall issue TDS certificate in the name of entity on whose behalf the bill has been raised by CTU, in case TDS is deducted.
  - g) If any dispute is raised by either entity in these special cases, same shall be settled mutually between the parties without any prejudice to their respective liabilities under the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020, without any liability to CTU.

## **10.0 Bill Dispute**

- 10.1 Bill shall be considered correct, complete and conclusive between the DIC and the CTU unless the DIC disputes the Bill within thirty (30) days of receiving it. However, if any issue is brought out by the DIC at the later date, it shall be reviewed by CTU for necessary action and same shall not be treated as bill dispute.

10.2 If any error in raising the bill on account of CTU is intimated by DIC, same shall be reviewed and CTU shall raise supplementary bill, if required, within Seven (7) days of getting intimation from DIC.

10.3 If a DIC raises a dispute regarding any item or part of an item set out in a bill raised by CTU as per regulation 5 to 8 of Sharing Regulations 2020, following procedure is to be followed :-

- a) Dispute must be raised by the DIC within 30 (Thirty) days of presentation of the bill.
- b) DIC shall serve a notice (a "Bill Dispute Notice") on the CTU setting out (i) the item or part of an item which is in dispute, (ii) its estimate of what such item or part of an item should be, (iii) and with all documentary evidence in support of its claim.
- c) If the bill has been raised by CTU as per RTA issued by RPCs and in case DICs is not in agreement to amount of bill in the RTA, the DIC instead of bill dispute notice, shall inform concerned RPCs/Implementing Agency for correction in RTA with a copy to CTU. On revision of RTA, CTU shall raise a supplementary bill.
- d) If the CTU agrees to the claim raised in the Bill Dispute Notice issued pursuant to Clause 10.3 (b), CTU shall raise Supplementary Bill within fifteen (15) days of receiving such notice from the disputing DIC and if the disputing DIC has already made the excess payment against bill under dispute, CTU shall adjust the excess amount (Supplementary Bill) against the next month bill/refund the excess amount in case no next bill to be raised.
- e) If the CTU does not agree to the claim raised in the Bill Dispute Notice issued pursuant to Clause 10.3(b), it shall, within fifteen (15) days of receiving the Bill Dispute Notice, furnish a clarification to the disputing DIC providing reasons thereof.
- f) In case of disagreement to CTU clarification to the Bill Dispute Notice under Clause 10.3 ( e ) above, authorised representative(s) of the disputing DIC and the CTU shall make best endeavours to amicably resolve such Dispute within thirty (30) days thereafter.
- g) If the disputing DIC and the CTU do not amicably resolve the dispute pursuant to Clause 10.3 ( f ), either party may approach the CERC for adjudication of dispute.
- h) If a Dispute regarding a Bill is settled pursuant to Clause 10.3 ( f ) or by Dispute resolution mechanism pursuant to Clause 10.3 ( g ) in favour of the disputing DIC that issued the Bill Dispute Notice, the CTU shall give credit adjustment through a Supplementary Bill or through first bill in the following month. Alternately, if the Dispute is settled in favour of the CTU, then such amount as disputed shall be payable by the disputing DIC along with the Late Payment Surcharge, as applicable.

- i) For the avoidance of doubt, it is clarified that despite a Dispute regarding the Bill which has been raised in accordance with RTA/RTDA as per Regulations and these Procedures, the concerned DIC shall, without prejudice to its right to the Dispute, be under an obligation to make timely payment as per the bill raised. On resolution of the issue, necessary adjustments shall be passed on by CTU to the DIC.

## **11.0 Event of Default by DIC**

**11.1** If the payment by a DIC against any Bill raised under Billing, Collection and Disbursement (BCD) procedure is outstanding beyond the Due Date or in case the required Letter of Credit or any other agreed payment security mechanism, as per Regulations 19 of CERC Sharing Regulations, 2020, as amended from time to time, is not established or maintained by the DIC, all such events shall independently constitute DIC Event of Default.

**11.2** Failure on the part of a DIC to make payment, in full, against the bills by the due date shall make such DIC liable for action for any or combination of the actions specified in Regulation 21, namely:

- a) regulation of power supply in accordance with the Power Supply Regulations 2010;
- b) denial of Short term Open Access by RLDC or NLDC in accordance with the Open Access Regulations, 2008;
- c) suspension or termination of Long Term Access or Medium Term Open Access in accordance with Connectivity Regulations, 2009; alongwith associated consequences towards liability for relinquishment charges wherever applicable, in terms of the provisions of the Central Electricity Regulatory Commission (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009.

**11.3** In case of failure on the part of any DIC in its liability to:

- a) maintain the Letter of Credit or such other instrument of payment security mechanism for the required amount in accordance with Clause (2) of Regulation 19 of Sharing regulations, 2020; or,
- b) replenish the Letter of Credit or such other instrument of payment security mechanism in accordance with Clauses (3) and Clause (5) of Regulation 19 of Sharing Regulations, 2020; or
- c) renew the Letter of Credit or such other instrument of payment security mechanism in accordance with Clause (6) of Regulation 19 of Sharing Regulation, 2020.

CTU may regulate the Scheduling of the concerned DIC, in accordance with the Power Supply Regulations, 2010.

Provided that in case of non-establishment of payment security mechanism by a generation DIC and unavailability of resort to regulation of power supply due to any circumstance including but not restricted to delayed commissioning of the DIC's generation project, adverse progress of generation project, abandonment of the generation project or in case of any accident leading to idling or stranding of the generation project unless such accident has been adjudicated to be a force majeure event by a court of competent jurisdiction, CTU shall be empowered to take action for denial of Short term Open Access and suspension or termination of Long Term Access or Medium Term Open Access respectively in terms of sub-clause (b) and (c) of Clause 11.2 above.

- 12.0 The CTU shall be indemnified by all DICs & ISTS Licensees, from and against any and all damages, losses, liabilities, obligations, claims of any kind including any tax liability, interest, cost, fee, or expenses (including, without limitation, reasonable attorneys' fees and expenses) (collectively, "Losses"), suffered, incurred or paid, directly, as a result of, in connection with or arising out of exercise of CTU's obligations of billing and collecting transmission charges on behalf of ISTS Licensees and subsequently disbursing them to all ISTS Licensees in accordance with this procedure under Sharing Regulations, 2020.
- 13.0 Monthly Information required from NLDC/ RLDCs**
- 13.1 The Implementing agency (NLDC) shall furnish to CTU, in writing before the billing month, the ratio of MTC of all the ISTS Licensees considered in the billing computations for a billing period, to facilitate CTU to disburse the payments against the billing to the ISTS Licensees.
- 13.2 NLDC/RLDCs shall transfer the amount collected against STOA transactions and furnish the details of STOA transactions including TDS, if any, to CTU by the 15th day of the following month for calculation of adjustment of STOA as per Sharing Regulations, 2020. The details of STOA transactions shall include details of Applicant, Injecting Utility, Drawee Utility, embedded utility with name of the state, quantum, Trans. Charges for STOA etc.
- 13.3 NLDC/RLDC shall collect the TDS certificates against TDS deducted for STOA transaction and forward to CTU for timely accounting of TDS.
- 14.0 Collection of information and apportionment of Yearly Transmission Charge (YTC) in compliance to Regulation 5(2), 6(1)(b) & 7(1) of Sharing Regulations,2020**
- 14.1 CTU shall publish list of transmission elements developed for Renewable Energy projects, transmission elements identified as Regional Components and drawl Transformers as per regulation 5(2), 6(1) (b) & 7(1) respectively on its website. The list

shall be updated to include new elements at least one (1) month prior to its anticipated commissioning or as and when deemed necessary.

14.2 To facilitate CTU to furnish requisite information to Implementing Agency (IA) in compliance to Regulation 6(1)(b) & 7(1) of Sharing Regulations, 2020, all the ISTS Licensees shall provide their project information in the prescribed format i.e. Format A or Format B, as applicable, enclosed with this procedure. In case of delay or non-submission of data, CTU shall proceed with data available with it along with suitable assumptions as required.

- a) In case separate CERC approved or adopted YTC for these elements is available, the same is to be provided as per the Format A.
- b) In case where separate YTC as per Format A is not available, the same shall be worked out by CTU. To enable CTU to work out YTC, transmission licensee shall provide information of all transmission line and Substation elements for the subject project/petition as per Format B. Based on the information provided, CTU shall work out the YTC, by apportioning approved/adopted YTC by the CERC for the combined asset into individual elements on the basis of capital cost.

In cases where capital cost for individual elements is not available, indicative capital cost shall be used for apportionment. This shall be considered as base for apportioning YTC for individual element from combined tariff. In case indicative cost of any element is not available, reasonable assumptions like working out the cost on the basis of similar element, costs indexations based on CPI, WPI etc. shall be used.

#### 14.3 Procedure for working out the YTC of Transformer Component:

As per Sharing Regulations 2020, billing of drawl ICTs along with associated downstream bays is to be done on States/DICs using them Under Transformer Component (TC). For the same, separate Yearly Transmission Charges (YTC) for such TC elements is required. However, the same is generally not available as either these TC elements are combined with other elements of the project for the purpose of tariff calculation or cost for drawl ICT and associated downstream bays may not be available separately in total approved asset cost. In addition, in some cases cost of certain common works is also included in the TC elements. Accordingly after detailed analysis, it was observed that it may not be practically feasible to work out the YTC for Transformer component based on the approved CERC cost / tariff.

Accordingly, transmission tariff for such TC element is calculated using Indicative cost. Indicative costs required for calculation of tariff shall depend on factors like age of element, voltage level, capacity, S/s type (AIS/GIS) etc. Accordingly, indicative cost as required is derived based on historical costs/rates available with POWERGRID along with suitable assumptions. Using these Indicative costs, YTC for TC elements is calculated as per relevant CERC Tariff regulations. The YTC thus worked out for TC

elements shall be used for apportioning Yearly Transmission Charges approved by CERC.

Further regarding deriving Indicative cost following approach is considered. POWERGRID maintains the historical cost data based on the awarded rates. For example in house cost data for 400/220 kV 315 MVA ICTs, 500 MVA ICTs and 400 kV, 132 kV & 220 kV Bays is available from 2005 onwards, and for arriving cost data for 315 MVA ICTs commissioned before 2005, indicative cost is derived using back indexation based on WPI and CPI rates. Indicative cost of 315 MVA ICT in 2005 as taken as base cost for back indexation. For others ICTs eg. 220/132 kV, 132/66 kV, historical cost data is available only for few years as these are not procured on regular basis. Accordingly indicative cost of such ICTs is derived using ratio of Cost of these ICTs w.r.t 315 MVA ICT for year 2020 and same ratio is used to derive indicative cost for such ICTs for required years.

**15.0 Information required from DICs having LTA/MTOA for Generation based on Renewable Energy:**

15.1 To facilitate CTU to furnish requisite information to Implementation Agency (IA) in compliance to Regulation 13(1) of Sharing Regulations, 2020 and amendments thereto, the DICs having LTA/MTOA for Generation based on Renewable Energy shall provide their projects information in the prescribed format as per **Annexure-7** on first day of the month following the billing period in which COD of its generation is declared. Such DICs shall also furnish the following documentation in support of their claim for exemption of transmission charges as per the above Regulation :-

- a) Letter of declaration of COD of generation
- b) Letter of award (LOA)/Proof that such generation capacity has been awarded through competitive bidding/ through competitive bidding as per guidelines issued by the Central Government.
- c) Certificate from entities including DISCOM(s) that the executed PPAs with the solar and wind power resources are for compliance of their renewable purchase obligation as per the format put on CTU web-site.
- d) An Undertaking towards fulfilment of conditions for exemption of transmission charges as per the format put on CTU web-site.

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**Annexure-I**

**Format : BCD-1**

**Information to be submitted by DIC for BCD Process by CTU  
as per Clause 2.1 of BCD Procedure**

**1. Details of DIC**

a)	Name of DIC	
b)	CIN No.	
c)	PAN No.	
d)	GSTIN No.	
e)	TAN No.	
f)	Address for Communication	
g)	Authorized Signatory Name & Contact details/Phone No.	
h)	Contact Person & Contact details /Phone No. for routine follow up	
i)	Alternate Contact Person & Contact details/Phone No. for routine follow up	
j)	Official Mail ID of DIC*	
k)	STU/DISCOM/SEB/PSU DISCOM/Bulk Customer/Lead Generator	

\*Not a personal Mail ID

**(Authorised Signatory with Stamp)**

**Name:.....**

**Designation:.....**

**Format : BCD-2****Information to be submitted by New ISTS Licensee for BCD Process by CTU  
as per Clause 2.2 of BCD Procedure****1.Details of ISTS Licensee**

a)	Name of ISTS Licensee	
b)	CIN No.	
c)	PAN No.	
d)	GSTIN No.	
e)	TAN No.	
f)	Transmission License ref.	
g)	Transmission Service Agreement(TSA) Ref.	
h)	Tariff Adoption Order ref.	
i)	Address for Communication	
j)	Authorized Signatory & Contact details/Phone No.	
k)	Contact Person & Contact details /Phone No. for routine followup	
l)	Alternate Contact Person & Contact details/Phone No. for routine follow up	
m)	Official Mail ID of Licensee*	
n)	Ref. No. of request letter by Licensee to IA for inclusion of Assets ( copy enclosed)	

\*Not a personal Mail ID

## 2. Details of Transmission Assets

Sr. No.	Name of Element	SCOD	Deemed* COD	Actual COD	MTC included in Sharing wef

\*If deemed COD, then only required

## 3. Bank Account Details

a)	Name of the Bank	
b)	Branch	
c)	Branch Address	
d)	IFSC code.	
e)	Account No.	

(Authorised Signatory with Stamp)

Name:.....

Designation:.....

**ABC Transmission Company Limited**  
2nd Floor, D-21, Corporate Park, Sector-21, Dwarka, Delhi-110077

**A. Monthly Transmission Charges (Inclusive of Incentive)**

Sl No	Asset	Rs. in Lakh			Total
		Month-1	Month-2	Month-3	
1	400 KV HVZ Line-1	855.08	772.33	855.08	2482.48
2	400 KV HVZ Line-2	456.67	412.48	456.67	1325.81
3	402 KV HVZ Line-3	594.52	536.99	594.52	1726.03
4	403 KV HVZ Line-4	654.78	591.42	654.78	1900.98
5	404 KV HVZ Line-5	462.45	417.70	462.45	1342.60
Total Payable (in Lakh)		3023.50	2730.90	3023.50	8777.91
Total Payable (in Rs.)		302350189	273090493	302350189	877790672

**B. MAT (Inclusive of Incentive)**

Sl No	Asset	Rs. in Lakh			Total
		Month-1	Month-2	Month-3	
1	400 KV HVZ Line-1	0.00	0.00	0.00	0
2	403 KV HVZ Line-2	0.00	0.00	0.00	0
3	402 KV HVZ Line-3	0.00	0.00	0.00	0
4	409 KV HVZ Line-4	0.00	0.00	0.00	0
5	404 KV HVZ Line-5	0.00	0.00	0.00	0
Total Payable (SR) in Lakh		0.00	0.00	0.00	0
Total Payable (in Rs.)		0	0	0	0

**C. FERV**

Sl No	Asset	Total (in Rs.)
1	N/A	Nil

**Total Charges to be Recovered through Bill # 1**

Sl No	Description	Amount
1	Monthly Transmission Charges (Inclusive of Incentive)	877790672
2	MAT (Inclusive of Incentive)	-
3	FERV	-
4	RLDC Fees & Charges	0
5	Arrear as per Format BCD-33-Part B	(77,531,258)
Total		800269514

Declaration: It is certified that YTC/WTC data being submitted for billing period is in conformity to all applicable regulations/CERC tariff orders/agreements signed by ..... (STS Licensee)

Monthly Transmission Charges & Incentive for ..... To .....

Sl. No.	Refibus No.	Order Status	Order placed	Demand Range	Asset ID	Name of the Assets	KCO	Actual ODR	Tariff	Drift In. (MVA)	Transmission Charges			Incentive			
											Month-1	Month-2	Month-3	Month-1	Month-2	Month-3	
1	000/TT/YYY	Final/Provisional	10-Sep-16	Project - 1	Asset-I	600 KV KV2 Line-1		01-09-12	994.89	362	944.31	761.91	944.31	10.71	8.88	10.72	
2	000/TT/YYY	Final/Provisional	10-Sep-16	Project - 1	Asset-II	600 KV KV2 Line-2		01-09-13	3399.31	949	810.91	827.81	810.91	9.71	5.21	9.72	
3	000/TT/YYY	Final/Provisional	10-Sep-16	Project - 1	Asset-III	600 KV KV2 Line-3		13-09-16	491.24	449	381.01	330.24	381.01	7.43	6.73	7.45	
4	000/TT/YYY	Final/Provisional	10-Sep-16	Project - 1	Asset-IV	600 KV KV2 Line-4		27-07-14	763.93	365	646.54	588.01	646.54	8.21	7.81	8.21	
5	000/TT/YYY	Final/Provisional	10-Sep-16	Project - 1	Asset-V	600 KV KV2 Line-5		16-07-15	1176.77	995	816.88	411.88	816.88	5.83	5.23	5.85	
								<b>Total</b>	<b>35159.27</b>		<b>2989.61</b>	<b>2696.66</b>	<b>2989.61</b>	<b>37.89</b>	<b>14.22</b>	<b>37.89</b>	

MAT (Inclusive of Incentive) for ..... 10 .....

Rs. in Lakh

Sl.No	Contract No.	Contract Status	Contract Date	Contract Name	Name of the Asset	Date of O&M	M/F	AMT/Dec 0000	No. of Days in Month			Total MAT
									Normal Availability	80.50%	84.50%	
									80.50%	84.50%	88.50%	
									80.50%	84.50%	88.50%	
									80.50%	84.50%	88.50%	
1	214/TT/2003	Professional	28-Sep-12	Project - 3	Falstara - Sinker O/C	01-09-11	0	350	0.00	0.00	0.00	0.00
2	214/TT/2003	Professional	28-Sep-12	Project - 3	Sinker - Symbat - Ch-1	01-09-11	0	265	0.00	0.00	0.00	0.00
3	214/TT/2003	Professional	28-Sep-12	Project - 3	Sinker - Symbat - Ch-2	27-07-11	0	344	0.00	0.00	0.00	0.00
4	214/TT/2003	Professional	28-Sep-12	Project - 3	Symbat - Bongaspara - Ch-1	22-02-11	0	365	0.00	0.00	0.00	0.00
5	214/TT/2003	Professional	28-Sep-12	Project - 3	Symbat - Bongaspara - Ch-2	28-01-11	0	364	0.00	0.00	0.00	0.00
Total									0.00	0.00	0.00	0.00

North Eastern Region

FERV for ..... to .....

Regional Trans. System

Rs. in Lakh

<u>Sl No</u>	<u>Project Name</u>	<u>Assets in the Petition</u>	<u>Actual DOCO</u>	<u>Interest</u>	<u>Principal</u>
1	Project - 1	Pallatana - Silchar D/C	01-09-12		
2	Project - 1	Silchar - Byrnihat - Ckt-1	01-03-13		
3	Project - 1	Silchar - Byrnihat - Ckt-2	27-07-14	N/A	N/A
4	Project - 1	Byrnihat - Bongaigaon- Ckt -1	22.02.2015		
5	Project - 1	Byrnihat - Bongaigaon- Ckt -2	16.01.2015		
<b>Total</b>				<b>0</b>	<b>0</b>

**RLDC Fees & Charges for .....(ISTS Licensee) for .....(Period)**

Amount in Rs.

<b>Region</b>	<b>Month-1</b>	<b>Month-2</b>	<b>Month-3</b>	<b>Total</b>
NRLDC				0
WRLDC				0
ERLDC				0
NERLDC				0
SRLDC				0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



Summary of Arrear and interest calculation

Category	Apr-14 - June-14	July-14 - Sept-14	Oct-14 - Dec-14	Jan-15 - Mar-15	Total
Arrear					
Interest					
Other charges					
Total					

Category	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Total
Arrear													
Interest													
Other charges													
Total													

Category	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Total
Arrear													
Interest													
Other charges													
Total													

Category	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Total
Arrear													
Interest													
Other charges													
Total													

Category	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Arrear													
Interest													
Other charges													
Total													

Category	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Total
Arrear													
Interest													
Other charges													
Total													



Format : BCD-5Payment Information to be submitted by DIC for BCD Process by CTU**1. Details of Payment**

a)	Name of DIC	
b)	Payment Amount	
c)	Date of Payment	
d)	Bank Name	
e)	UTR No.	

**2. Adjustment of Payment\***

Sr. No.	Bill No.	Bill date	Full/ Part Payment	Amount Paid	Rebate Deducted	TDS deducted	Remarks

\*Amount paid should be adjusted as per FIFO method.

(Signed on behalf of DIC)

Name:.....

Designation.....

Format : BCD-6

**Request for change of Account for Disbursement to ISTS Licensee**

1	Name of ISTS Licensee:	
2	Address of ISTS Licensee :	
3	Existing Account Information:	
3.1	Account No.	
3.2	Bank	
3.3	Branch & IFSC Code	
4	New Account Information:	
4.1	Account No.	
4.2	Bank	
4.3	Branch & IFSC Code	
4.4	Branch Address:	
5	Details of Authorised Person for Change of Account	
5.1	Name:	
5.2	Designation:	
5.3	Contact No.	
6	Support Documents:	
6.1	Board Resolution Ref. (copy enclosed)	
6.2	Reason for change of Account	

(Authorized Signatory **with Stamp**)

Name:.....

Designation:.....

Format: BCD-7

Details required for waiver of inter-state transmission charges for LTA/MTOA from Renewable Energy

1	Type of Open Access (LTA/MTOA)	
2	Name of the LTA/MTOA Applicant	
3	Quantum of LTA/MTOA granted	
4	Date of firming-up of LTA (if applicable)	
5	Date of Operationalisation of LTA/MTOA	
6	CTU Intimation Reference no. & date for Grant of LTA/MTOA	
7	CTU Intimation Reference no. & date for firming-up of beneficiary (if applicable)	
8	CTU Intimation Reference no. & date for operationalization	
9	Renewable Generator Name	
10	Renewable Generator Location	
11	Capacity Operationalised	
12	COD of Generator	
13	<b>Beneficiary:</b>	
13.1	Tariff awarded through Competitive bidding (Yes/No)	
13.2	Capacity to meet Renewable Purchase Obligation (Yes/No)	

Authorized Signatory with stamp

Name:.....

Designation:.....

Contact No.:.....

**Special Conditions to the Letter of Credit (POC bills)**

1. Due date in relation to any Bill shall mean the Forty fifth (45<sup>th</sup>) day from the date on which such Bill is raised by Central Transmission Utility (CTU i.e., Power Grid Corporation of India Limited, referred here as POWERGRID).
2. If opener/ applicant fails to pay any Bill Amount or part thereof within and including the forty fifth (45<sup>th</sup>) day from the date of Bill, then, the CTU (POWERGRID) may draw upon the Letter of Credit, and accordingly the bank shall pay without any reference or instructions from the concerned Opener, an amount equal to the Bill Amount or part thereof plus Late Payment Surcharge, by presenting to the negotiating bank, the following documents:
  - a. A copy of the Bill(s), which has been remained unpaid/ partially paid by such Opener/ partially realized through LC;
  - b. Covering Letter
  - c. Calculations of applicable Late Payment Surcharge, if any.
  - d. A certificate from the CTU (POWERGRID) to the effect that Bill at item (a) above, or specified part thereof has remained unpaid/ partially paid beyond the Forty fifth (45<sup>th</sup>) day after Due Date & (c) Calculations of applicable Late Payment Surcharge claimed, if any, are in accordance with CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and the BCD (Billing, Collection & Disbursement) procedures approved by Central Electricity Regulatory Commission (CERC).
3. No Documents other than a, b, c & d above are required for negotiation of LC.
4. As the Both Applicant and Beneficiary (POWERGRID) are governed by CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and the BCD (Billing, Collection & Disbursement) procedures, the Negotiating bank shall release the total amount (restricted up to LC limit) claimed though LC bill to POWERGRID without any deductions citing the discrepancies in the LC claim.

However, Opener agree that, In case of drawal of the Letter of Credit by the CTU (POWERGRID), the amount of the Letter of Credit will be reinstated within seven (7) days from the date of such drawal.

5. Payment shall be released immediately by the bank on the day of presentation of bill by the CTU (POWERGRID) without any delay on the bank part, as the Surcharge is calculated up to the date of receipt of payment in the CTU (POWERGRID) account.
6. In case the total value against outstanding bills exceeds the LC limit, the bank shall release the amount equal to the LC limit.
7. LC can be negotiated more than once during the month subsequent to reinstatement of LC by the opener. However maximum limit of amount to be negotiated at each time shall not exceed the Total LC value.
8. All charges relating the Letter of Credit (including LC opening, Amendments, negotiation, reinstatement and operating) shall be borne by the Opener.
9. The LC opened shall be valid for one year from the date of opening of LC (amendments to the LC, if required, is allowed only with prior consent of both Beneficiary and Applicant.).
10. This LC is irrevocable, revolving and unconditional (other than special conditions laid down herein).
11. The LC has to be negotiated at the Bank branches located at New Delhi or as per the requirement of CTU (Name of City).
12. The amounts negotiated against the LC shall be paid by the negotiating branch to Power Grid Corporation of India Ltd. by way of RTGS/EFT to the bank details indicated in the respective bills/ certificate to be presented by CTU (POWERGRID).
13. RTGS/ EFT transfer charges (if any,) shall be charged to the account of LC opener. All such charges which may be levied by the LC negotiating Branch & LC opening Branch shall also to the account of LC opener.
14. All apparent spelling mistake/mistakes in LC documents, which do not alter meaning/charges payable /description are acceptable and will not count as a discrepancy.
15. This LC is opened by the Opener in favour of Beneficiary towards payment of transmission charges, As such; the general conditions of LC like Shipment date, Shipment from, Shipment to, partial shipments, Transhipments and Tolerance which are not relevant to the said transmission charges are not applicable.

Name of ISTS Licensee:

Name of Project:

A. Details of TC/RC components												
Sl No	Name of ICT/Bus Reactor/FACT Devices	Name of Substation	AIS/GIS	Actual COD	Voltage Level	ICT Rating	Separate Tariff Available (Y/N)	Tariff Order Ref. (Petition No.)	Order Date	Tariff Block	Order Type	YTC (In Lakh)
							If No, Fill Format B					
							If No, Fill Format B					
B. Details to be filled for ICTs												
Sl No	Name of Substation	No of Feeders to draw DDC 1	No of Feeders to draw DDC 2, if applicable	No of Feeders to draw DDC 3, if applicable								



**Details of Transmission System required for calculation of tariff of TC/RC Components**

**Format B**

**Name of ISTS Licensee:**

**Name of Project:**

**Tariff Petition No:**

Details required for Transmission lines									
SINO	Name of Tr. Line	Voltage level	No of Circuits	line length in km	Type of Conductors	No of Sub-conductors	Remarks		
1									
2									
Provide detail of all transmission line in petition/project									
Details required for Substation Elements									
Name of Substation Element	Name of Substation	AIS/GIS	Voltage level	Equipment Rating	Number in case a similar type of element is more than 1	Associated Bay details for ICT, Reactor etc. in Nos.			Remarks
						No of 765 kV	No of 400 kV	No of 220 kV or below (specify in remarks)	
Substation element include ICT, Reactors, STATCOM, SVC, FACT devices, Line Bays, Downstream Bays, Spare Transformers & Reactors, etc.									



# भारत का राजपत्र

## The Gazette of India

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CG-DL-E-09032021-225743

असाधारण  
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)  
PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

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नई दिल्ली, मंगलवार, मार्च 9, 2021/फाल्गुन 18, 1942  
NEW DELHI, TUESDAY, MARCH 9, 2021/PHALGUNA 18, 1942

विद्युत मंत्रालय

अधिसूचना

नई दिल्ली, 9 मार्च, 2021

का.आ. 1095(अ).—विद्युत अधिनियम, 2003 (2003 का 36) (जिसे इस में इसके बाद 'उक्त अधिनियम' कहा गया है) की धारा 38 की उप-धारा (1) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, केन्द्रीय सरकार एतद्वारा, भारत सरकार की कंपनी, सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इण्डिया लिमिटेड को, जिसका पंजीकृत कार्यालय प्लॉट नं.2, सेक्टर 29, गुरुग्राम, हरियाणा, भारत, 122001 पर स्थित है, उक्त अधिनियम के प्रावधानों या इस सम्बन्ध में केन्द्रीय आयोग या प्राधिकरण के किन्हीं विनियमों या निदेशों या केन्द्रीय सरकार द्वारा निर्धारित कुछ अन्य निदेशों या कार्यों को करने तथा उन्हें निष्पादित करने के लिए, उक्त अधिनियम की धारा 2 की उपधारा (10) के अभिप्राय के तहत में, "सेंट्रल ट्रांसमिशन यूटिलिटी" के रूप में अधिसूचित करती है।

और भी, उक्त अधिनियम की धारा 38 की उप-धारा (1) के दूसरे परंतुक द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड को, जिसे राजपत्र अधिसूचना, दिनांक 27 नवंबर, 2003 द्वारा "सेंट्रल ट्रांसमिशन यूटिलिटी" घोषित किया गया था, अधिनियम के अंतर्गत पारेषण अनुज्ञप्ति-धारी समझा जाता रहेगा और वह प्रासंगिक एवं उससे सम्बंधित कार्य करता रहेगा तथा केन्द्रीय सरकार या इससे सम्बंधित प्राधिकरण द्वारा यथा निदेशित कार्य भी करता रहेगा। यह अधिसूचना 01 अप्रैल, 2021 से प्रभावी होगी।

[फा. सं. 18/3/2015-पीजी (भाग3)]

मृत्युंजय कुमार नारायण, संयुक्त सचिव (पारेषण)

**MINISTRY OF POWER****NOTIFICATION**

New Delhi, the 9th March, 2021

**S.O. 1095(E).**—In exercise of the powers conferred by sub-section(1) of section 38 of the Electricity Act, 2003 (36 of 2003) (hereinafter referred to as 'the said Act'), the Central Government hereby notifies the Central Transmission Utility of India Limited, a Government Company, having its registered office at plot No. 2, sector 29, Gurgaon, Haryana, India, 122001, as the 'Central Transmission Utility', within the meaning of sub-section(10) of section 2 of the said Act, to undertake and discharge all functions of Central Transmission Utility pursuant to the provisions of the said Act or any regulations or directions of the Central Commission or Authority or any other directions or functions prescribed by the Central Government in that regard.

Further, in exercise of the power conferred by the second proviso to sub-section (1) of section 38 of the said Act, Power Grid Corporation of India Limited, which was declared as 'Central Transmission Utility', vide Gazette Notification Dated the 27<sup>th</sup> November, 2003, shall continue to be a deemed Transmission Licensee under the Act and discharge functions incidental and connected therewith and would also undertake functions as directed by the Central Government or Authority in that regard. This notification shall be effective from 1<sup>st</sup> April, 2021.

[F. No. 18/3/2015-PG(Part 3)]

MRITUNJAY KUMAR NARAYAN, Jt. Secy. (Transmission)

**MANDATE FORM**

**ELECTRONIC CLEARING SERVICE (CREDIT CLEARING)/REAL TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS**

**A. DETAILS OF BANK ACCOUNT HOLDER:-**

NAME OF THE ACCOUNT HOLDER	Central Transmission Utility of India Limited
COMPLETE CONTACT ADDRESS	Plot No. 2, Sector - 29, Gurgaon, Haryana - 122 001
TELEPHONE NUMBER/FAX/MAIL	0124-2822893 (Mr. Ishrat Ali)

**B. BANK ACCOUNT DETAILS**

BANK NAME	STATE BANK OF INDIA
BRANCH NAME WITH COMPLETE ADDRESS, TELEPHONE NUMBER AND EMAIL	CAG-II, 4 <sup>th</sup> & 5 <sup>th</sup> FLOOR, REDFORT CAPITAL PARSYNATH TOWERS BHAI VEER SINGH MARG, GOLE MARKET, NEW DELHI-110001
WHETHER THE BANK IS COMPUTERISED?	Yes
WHETHER THE BANK IS RTGS ENABLED? IF YES, THEN WHAT IS THE BRANCH'S IFSC CODE	Yes SBIN0017313
IS THE BRANCH ALSO NEFT ENABLED?	Yes
TYPE OF BANK ACCOUNT (SB/CURRENT/CASH CREDIT)	Current Account
COMPLETE BANK ACCOUNT NUMBER (LATEST)	39954184733
MICR CODE OF BANK	110002562

DATE OF EFFECT:-

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect I would not hold the user Institution responsible. I have read the option invitation letter and agree to discharge responsibility expected of me as a participant under the scheme.

Date: 04.04.2021

*(Signature)*  
Signature of Customer

Certified that the particulars furnished above are correct as per our records

(Bank's Stamp)

Date: 5/4/21



*(Signature)*  
Signature of Bank Manager  
P.C. RAO  
10A04

Please attach a photocopy of cheque along with the verification obtained from the bank. In case your Bank is presently not "RTGS Enabled", then upon its up gradation to "RTGS Enabled" branch, please submit the information again in the above proforma to the Department at earliest.

आयकर विभाग  
INCOME TAX DEPARTMENT



भारत सरकार  
GOVT. OF INDIA

ई- स्थायी लेखा संख्या कार्ड  
e - Permanent Account Number (e-PAN) Card  
AAJCC2026N

नाम / Name	CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED
स्थापना/गठन की तिथि / Date of Incorporation / Formation	28/12/2008
	 <div style="display: inline-block; vertical-align: top;"> <p><b>Signature Not Verified</b></p> <p>संकेतित किया गया है कि यह PAN कार्ड डिजिटल रूप में सत्यापित नहीं किया गया है।              Digitally signed by AAJCC2026N              Date: 2025.12.27 12:27:29              Reason: PAN Card Digitally signed by AAJCC2026N</p> </div>

- Permanent Account Number (PAN) भारतीय राजस्व विभाग द्वारा जारी किया गया है। इसके अंतर्गत, व्यक्तिगत, व्यापारिक, कृषि, कर्मचारी, निवेश, आदि के लिए आयकर काटने के लिए उपयोग किया जाता है। इसके अलावा, यह आयकर काटने के लिए उपयोग किया जाता है।
- केंद्रीय आयकर विभाग (Income Tax Department) के नियमों के अनुसार, PAN को एक अनिवार्य पहचान प्रमाण के रूप में उपयोग किया जाना चाहिए।
- केंद्रीय आयकर विभाग (Income Tax Department) के नियमों के अनुसार, PAN को एक अनिवार्य पहचान प्रमाण के रूप में उपयोग किया जाना चाहिए।
- यह PAN कार्ड डिजिटल रूप में सत्यापित किया गया है। इसके अलावा, यह आयकर काटने के लिए उपयोग किया जाता है।

CU



Electronically issued and Digitally signed ePAN is a valid mode of issue of Permanent Account Number (PAN) per amendments in clause (c) to the Explanation covering after sub-section 28 of Section 139A of Income Tax Act, 1961 and sub-rule (b) of Rule 114 of the Income Tax Rules, 1962. For more details, visit [www.incometax.gov.in](#)

## SUMMARY OF DEVIATION CHARGE RECEIPT AND PAYMENT STATUS

BILL UPTO 18-06-2021 (W-10 of 2021-2022)  
Last Payment Disbursement Date - 22-06-2021

Figures in Rs. Lakhs

CONSTITUENTS	Net outstanding for 2019-20	Net outstanding for 2020-21	Receivable	Received	Payable	Paid	Outstanding for 2021-22	Total Outstanding
BSPTCL	0.00000	7,539.21266	10,297.23224	0.00000	119.63676	0.00000	10,177.59548	17,716.80814
JUVNL	155.91283	2,144.84204	1,407.65349	0.00000	0.00000	0.00000	1,407.65349	3,708.40836
DVC	0.00000	0.00000	1,368.99452	1,166.12731	52.05102	38.00231	188.81850	188.81850
GRIDCO	0.00000	1.59243	1,178.55311	494.93319	230.77247	230.77247	683.61992	685.21235
WBSETCL	0.00000	0.00000	2,387.52927	2,015.74351	0.00000	0.00000	371.78576	371.78576
Sikkim	0.00000	104.97031	258.12820	0.00000	54.81237	0.00000	203.31583	308.28614
NTPC	0.00000	0.00000	1,924.67388	1,704.54082	235.61271	49.18402	33.70437	33.70437
NHPC	0.00000	0.00000	13.97527	0.00000	332.99520	332.99520	13.97527	13.97527
MPL	0.00000	0.00000	40.31116	40.31116	125.10323	122.57246	-2.53077	-2.53077
APNRL	0.00000	0.00000	41.25317	0.00000	198.29918	191.91988	34.87387	34.87387
CHUZACHEN	0.00000	0.00000	1.78049	1.78049	28.96843	25.73996	-3.22847	-3.22847
NVVN-BD	0.00000	0.00000	391.02900	284.07494	2.98940	2.98940	106.95406	106.95406
GMR	0.00000	0.00000	42.36335	42.36335	243.93750	208.83286	-35.10464	-35.10464
JITPL	0.00000	0.00000	183.46272	183.46273	40.88286	31.34249	-9.54038	-9.54038
TPTCL (Dagachu)	0.00000	0.00000	439.81499	310.69895	0.00000	0.00000	129.11604	129.11604
JLHEP	0.00000	0.00000	138.34777	105.55783	0.00000	0.00000	32.78994	32.78994
NVVN-NEPAL	0.00000	0.00000	3,500.01933	3,354.30737	0.00000	0.00000	145.71196	145.71196
IBEUL	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
BRBCL	0.00000	0.00000	84.47102	35.65903	55.87838	55.87838	48.81199	48.81199
PGCIL SASARAM	0.00000	0.00000	0.97565	0.57060	4.15723	4.15723	0.40505	0.40505
TUL (Teesta-III)	0.00000	0.00000	132.77086	122.00325	37.30264	37.30264	10.76761	10.76761
NERLDC	0.00000	0.00000	2,920.51782	2,933.32166	17,289.06387	17,825.17612	523.30841	523.30841
WRLDC	0.00000	0.00000	14,325.90702	14,362.54415	37,245.70370	17,553.07606	-19,729.26477	-19,729.26477
NRLDC	0.00000	0.00000	4,067.08170	2,877.53327	30,887.90275	30,692.16842	993.81410	993.81410
SRLDC	0.00000	0.00000	56,192.53158	35,605.78113	560.60864	560.60864	20,586.75045	20,586.75045
VAE	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Dikchu	0.00000	0.00000	21.95334	21.95334	60.36711	41.57128	-18.79583	-18.79583
PGCIL-Alipurduar	0.00000	0.00000	3.33664	0.00000	1.60673	1.60673	3.33664	3.33664
Tashiding(THEP)	0.00000	0.00000	100.23034	70.93633	0.00000	0.00000	29.29401	29.29401
OPGC	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
KBUNL	0.00000	0.00000	85.05423	85.05423	86.36925	73.74893	-12.62032	-12.62032
NPGC	0.00000	0.00000	69.30170	69.30170	92.08889	82.24234	-9.84655	-9.84655
NPGC-Infirm	0.00000	0.00000	360.97338	335.30274	583.54216	583.54216	25.67064	25.67064
RONGNICHU Infirm	0.00000	0.00000	1.92250	1.35265	0.59733	0.59733	0.56985	0.56985
<b>Total</b>	<b>155.91283</b>	<b>9,790.61744</b>	<b>1,01,982.14974</b>	<b>66,225.21573</b>	<b>88,571.24981</b>	<b>68,746.02731</b>	<b>15,931.71151</b>	<b>25,878.24178</b>

Receivable: Receivable by ER Payable: Payable by ER POOL  
Received: Received by ER P Paid: Paid by ER POOL  
'- ve' Payable by ER pool '+ ve' Receivable by ER pool

## Deviation Interest Bill due to delay payment

### Annexure-II

All figs in Rupees.

Sl No.	Constituent Name	Interest outstanding till Q4_2020-21	Interest Received by Pool against outstanding	Interest Paid by pool against Outstanding	Net Interest outstanding till Q4_2020-21
1	BSPTCL	91,05,608	0	0	91,05,608
2	DVC	23,718	0	0	23,718
3	GRIDCO	-2,79,466	0	2,79,466	0
4	JUVNL	4,34,61,973	0	0	4,34,61,973
5	Sikkim	11,76,865	11,76,865	0	0
6	WBSETCL	21,415	0	0	21,415
7	NHPC	-54,745	0	54,745	0
8	NTPC	0	0	0	0
9	APNRL	11,33,748	11,33,748	0	0
10	BRBCL	-1,316	0	1,316	0
11	JLHEP	1,28,853	0	0	1,28,853
12	CHUZACHEN	-3,119	0	3,119	0
13	GMR	1,73,96,828	0	0	1,73,96,828
14	IBEUL	26,75,383	0	0	26,75,383
15	JITPL	8,589	8,589	0	0
16	KBUNL	40	0	0	40
17	MPL	-33,428	0	33,428	0
18	NPGC-Infirm	0	0	0	0
19	NPGC	-10,953	0	10,953	0
20	NVVN-BD	24,603	0	0	24,603
21	NVVN-NEPAL	0	0	0	0
22	OPGC	24,209	0	0	24,209
23	PGCIL-Alipurduar	1,72,257	0	0	1,72,257
24	PGCIL SASARAM	1,686	0	0	1,686
25	Tashiding(THEP)	1,57,661	1,57,661	0	0
26	Dikchu	28,701	0	0	28,701
27	TPTCL (Dagachu)	0	0	0	0
28	TUL (Teesta-III)	-1,134	0	1,134	0

'- ve' Payable by ER pool

'+ ve' Receivable by ER pool

**Note: Ind-bharath interest is calculated till 29.05.2019**

RRAS interest details				
Constituents	Amount in ₹ Lacs	Interest Paid in 1st Quarter 2021-22	Balance	Payment Date
NTPC	-4.85430	4.85430	0.00000	16.06.2020
BRBCL	-0.60400	0.60400	0.00000	16.06.2020
KBUNL	-3.22746	3.22746	0.00000	16.06.2020
MPL	-2.22505	2.22505	0.00000	16.06.2020
NPGC	-0.79683	0.79683	0.00000	16.06.2020
<b>Total</b>	<b>-11.70764</b>	<b>11.70764</b>		

**STATUS OF REACTIVE CHARGES**

**RECEIVABLE IN ER POOL AS PER PUBLISHED A/C FROM 24.05.21 to 30.05.21**

AS ON 22.06.21

<b>Name of Parties</b>	<b>Receivable Amount by pool</b>	<b>Received Amount by pool</b>	<b>Payable Amount by pool</b>	<b>Paid Amount by pool</b>	<b>Outstanding Amount Receivable(+Ve) / Payable by pool(-Ve)</b>
BSPHCL	40146314	0	3741538	0	36404776
JUVNL	40424515	0	0	0	40424515
DVC	5722198	3782915	1335944	1335944	1939283
SIKKIM	361966	334815	66866	39715	0
WBSETCL	19038829	14872870	0	0	4165959



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

BILL UPTO 18-06-2020 (W-10 of 2021-2022)

Last Payment Disbursement Date -10.09.20

Figures in Rs. Lakhs

CONSTITUENTS	Receivable	Received	Payable	Paid	Outstanding
<a href="#">NTPC</a>	2720.42165	2139.04363	379.28522	37.10177	239.19457
<a href="#">MPL</a>	211.25036	164.47406	308.37825	183.74466	-77.85729
<a href="#">BRBCL</a>	460.83328	422.43029	22.65924	4.83815	20.5819
<a href="#">KBUNL</a>	252.75207	128.73418	338.4677	214.63144	0.18163
<a href="#">NPGC</a>	139.00735	116.23545	91.61656	11.44319	-57.40147
<b>TOTAL</b>	<b>3784.26471</b>	<b>2970.91761</b>	<b>1140.40697</b>	<b>451.75921</b>	<b>124.69934</b>

Receivable: Receivable by ER POOL

Payable

Payable by ER POOL

Received Received by ER POOL

Paid

Paid by ER POOL

"- ve" Payable by ER pool

"+ ve" Receivable by ER pool

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

BILL UPTO 31-08-2020 (W-21 of 2020-2021)

Last Payment Disbursement Date - 10-09-2020

Figures in Rs. Lakhs

CONSTITUENTS	Receivable	Received	Payable	Paid	Outstanding
BARH	0.00000	0.00000	62.48374	62.48374	0.00000
<b>TOTAL</b>	<b>0.00000</b>	<b>0.00000</b>	<b>62.48374</b>	<b>62.48374</b>	<b>0.00000</b>

Receivable: Receivable by ER POOL

Payable

Payable by ER POOL

Received Received by ER POOL

Paid

Paid by ER POOL

"- ve" Payable by ER pool

"+ ve" Receivable by ER pool

**DETAILS OF DISBURSEMENT TO POWER SYSTEM DEVELOPMENT FUND**

SI No	Nature of Amount	Amount transferred to PSDF (Rs in Lac)	Date of Disbursement	Remarks
<b>1</b>	<b>Opening Balance (upto 31.12.16)</b>	<b>90040.05774</b>		
2	Reactive Energy Charge	248.26904	31.07.17	Reactive Charges_17-18
3	Reactive Energy Charge	128.44284	29.08.17	Reactive Charges_17-18
4	Reactive Energy Charge	103.22685	26.09.17	Reactive Charges_17-18
5	Reactive Energy Charge	249.14078	31.10.17	Reactive Charges_17-18
6	Reactive Energy Charge	172.20693	30.11.17	Reactive Charges_17-18
7	Reactive Energy Charge	200.00000	15.12.17	Reactive Charges_17-18
8	Reactive Energy Charge	100.00000	05.01.18	Reactive Charges_17-18
9	Reactive Energy Charge	558.45339	06.02.18	Reactive Charges_17-18
10	Reactive Energy Charge	171.95546	06.03.18	Reactive Charges_17-18
11	Reactive Energy Charge	129.35497	04.04.18	Reactive Charges_17-18
12	Reactive Energy Charge	126.21494	07.05.18	Reactive Charges_18-19
13	Reactive Energy Charge	183.31081	06.06.18	Reactive Charges_18-19
14	Reactive Energy Charge	215.58816	05.07.18	Reactive Charges_18-19
15	Reactive Energy Charge	176.54245	03.08.18	Reactive Charges_18-19
16	Reactive Energy Charge	39.54556	06.09.18	Reactive Charges_18-19
17	Reactive Energy Charge	34.03973	01.10.18	Reactive Charges_18-19
18	Reactive Energy Charge	74.57236	05.11.18	Reactive Charges_18-19
19	Reactive Energy Charge	40.66623	04.12.18	Reactive Charges_18-19
20	Reactive Energy Charge	236.89035	02.01.19	Reactive Charges_18-19 & 15-16
21	Reactive Energy Charge	300.04546	05.02.19	Reactive Charges_18-19 & 15-16
22	Reactive Energy Charge	233.27998	05.03.19	Reactive Charges_18-19
23	Reactive Energy Charge	105.79202	04.04.19	Reactive Charges_18-19
24	Reactive Energy Charge	287.48448	03.05.19	Reactive Charges_18-19 & 19-20
25	Reactive Energy Charge	129.69559	03.06.19	Reactive Charges_19-20
26	Reactive Energy Charge	207.83840	04.07.19	Reactive Charges_19-20
27	Reactive Energy Charge	94.91703	02.08.19	Reactive Charges_19-20
28	Reactive Energy Charge	188.53681	02.09.19	Reactive Charges_19-20
29	Surplus DSM amount transferred	32210.51998	24.09.19	DSM Charges_19-20
30	Reactive Energy Charge	173.06004	01.10.19	Reactive Charges_19-20
31	Reactive Energy Charge	273.15002	01.11.19	Reactive Charges_19-20
32	Reactive Energy Charge	401.09564	04.12.19	Reactive Charges_19-20
33	Reactive Energy Charge	252.53573	02.01.20	Reactive Charges_19-20
34	Reactive Energy Charge	148.65520	07.02.20	Reactive Charges_19-20
35	Reactive Energy Charge	205.22437	04.03.20	Reactive Charges_19-20
36	Bank interest from Reactive acct	0.21706	03.04.20	Bank interest from Reactive acct
37	Reactive Energy Charge	843.03166	03.06.20	Reactive Charges_19-20 & 20-21
38	Reactive Energy Charge	507.80481	07.07.20	Reactive Charges_17-18,18-19 & 20-21
39	Reactive Energy Charge	309.41068	06.08.20	Reactive Charges_17-18,18-19 & 20-21
40	Reactive Energy Charge	83.23955	02.09.20	Reactive Charges_19-20 & 20-21
41	Bank interest of DSM A/C-TDS por	251.65235	18.09.20	Bank interest TDS portion transferred from POSOCO,CC
42	Bank interest of DSM A/C-TDS por	15.64788	22.09.20	Bank interest TDS portion transferred from POSOCO,CC
43	Reactive Energy Charge	118.85979	06.10.20	Reactive Charges_20-21
44	Reactive Energy Charge	101.42971	04.11.20	Reactive Charges_20-21
45	Reactive Energy Charge	82.34791	04.12.20	Reactive Charges_20-21
46	Reactive Energy Charge	500.95333	06.01.21	Reactive Charges of 19-20 & 20-21
47	Reactive Energy Charge	92.51486	03.02.21	Reactive Charges of 19-20 & 20-21
48	Reactive Energy Charge	50.22963	04.03.21	Reactive Charges of 19-20 & 20-21
49	Reactive Energy Charge	32.15331	07.04.21	Reactive Charges of 19-20 & 20-21
50	Reactive Energy Charge	39.59760	05.05.21	Reactive Charges of 19-20 & 20-21
51	Reactive Energy Charge	18.96069	01.06.21	Reactive Charges of 20-21 & 21-22
	<b>Total</b>	<b>133622.72293</b>		

## DSM Reconciliation Status of Eastern Region

Annexure-VI

	2019-20				2020-21			
DSM account Reconciliation Status of ER constituents and Inter Regional								
Name of The Utility	Q1(17.07.19)	Q2(21.10.19)	Q3(13.01.20)	Q4(15.04.20)	Q1(15.07.20)	Q2(23.10.20)	Q3(20.01.21)	Q4(28.04.21)
<b>Inter Regional</b>								
WR	NO	NO	NO	NO	NO	NO	NO	NO
SR	YES	YES	YES	YES	YES	YES	YES	YES
NER	NO	NO	NO	NO	YES	YES	YES	YES
NR	NO	NO	NO	NO	NO	NO	NO	NO
<b>Intra Regional</b>								
BSPHCL	YES	NO	NO	NO	NO	NO	NO	NO
JUVNL	YES	YES	YES	YES	YES	NO	NO	NO
DVC	YES	YES	YES	YES	YES	NO	YES	NO
GRIDCO	YES	YES	YES	YES	YES	YES	YES	YES
WBSETCL	YES	YES	YES	YES	YES	NO	NO	YES
SIKKIM	YES	NO	NO	NO	NO	NO	NO	NO
NTPC	YES	YES	YES	YES	YES	YES	YES	NO
NHPC	YES	YES	YES	YES	YES	YES	NO	NO
MPL	YES	YES	YES	YES	YES	NO	YES	NO
KBUNL	YES	YES	YES	YES	NO	NO	NO	NO
APNRL	YES	YES	YES	YES	YES	NO	NO	NO
CHUZACHEN(GATI)	YES	YES	YES	YES	NO	NO	NO	NO
NVVN(Ind-Bng)	YES	YES	YES	YES	YES	NO	NO	NO
NVVN(Ind-Nep)	YES	YES	YES	YES	YES	NO	NO	NO
GMR	YES	YES	YES	YES	NO	NO	NO	YES
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	NO	NO	NO
JLHEP(DANS ENERGY)	YES	YES	YES	YES	YES	NO	NO	NO
BRBCL	YES	YES	YES	YES	YES	YES	YES	NO
POWERGRID (ER-I)	YES	YES	YES	YES	YES	NO	NO	NO
POWERGRID (ER-II)	YES	YES	YES	YES	NO	NO	NO	NO
TUL (TEESTA-III)	YES	YES	YES	YES	YES	YES	YES	YES
DIKCHU	YES	YES	YES	YES	YES	NO	NO	NO
SHIGA (TASHIDING)	YES	YES	YES	YES	YES	NO	NO	NO
OPGC	NO	NO	NO	NO	NO	NO	NO	NO
NPGC	YES	YES	YES	YES	YES	NO	NO	NO

Note:

(1) The dates in the bracket indicates the date of sending the Reconciliation statements by ERLDC to utilities.

(2) YES Indicates that signed reconciliation statement received by ERLDC

(3) NO Indicates that signed reconciliation statement is not received by ERLDC

# Reactive Account Reconciliation Status

Annexure-VII

	2019-20				2020-21			
Reactive account Reconciliation Status of ER constituents								
Name of The Utility	Q1(17.07.19)	Q2(21.10.19)	Q3(13.01.20)	Q4(15.04.20)	Q1(15.07.20)	Q2(23.10.20)	Q3(20.01.21)	Q4(28.04.21)
<b>Intra Regional</b>								
BSPHCL	NO	NO	NO	NO	NO	NO	NO	NO
JUVNL	NO	NO	NO	NO	NO	NO	NO	NO
DVC	YES	N/A	N/A	N/A	YES	NO	NO	NO
GRIDCO	YES	YES	YES	YES	YES	YES	YES	NO
WBSETCL	YES	YES	NO	NO	YES	NO	NO	YES
SIKKIM	NO	NO	NO	NO	NO	NO	NO	NO

Note:

(1)The dates in the bracket indicates the date of sending the Reconciliation statements by ERLDC to utilities.

(2) YES Indicates that signed reconciliation statement received by ERLDC

(3) NO Indicates that signed reconciliation statement is not received by ERLDC

# RRAS Account Reconciliation Status

	2019-20				2020-21			
RRAS account Reconciliation Status								
Name of The Utility	Q1(17.07.19)	Q2(21.10.19)	Q3(13.01.20)	Q4(15.04.20)	Q1(15.07.20)	Q2(23.10.20)	Q3(20.01.21)	Q4(28.04.21)
NTPC	YES	YES	YES	YES	YES	YES	YES	NO
BRBCL	YES	YES	YES	YES	YES	YES	YES	YES
KBUNL	YES	YES	NO	NO	YES	NO	NO	NO
NPGC	NA	NA	YES	YES	YES	NO	NO	NO
MPL	NA	YES	YES	YES	YES	YES	YES	NO

# AGC Account Reconciliation Status

	2019-20				2020-21		
Name of The Utility	Q1(17.07.19)	Q2(21.10.19)	Q3(13.01.20)	Q4(15.04.20)	Q1(15.07.20)	Q2(23.10.20)	Q3(20.01.21)
BARH(NTPC)	YES	YES	YES	YES	YES	YES	YES



**AMR Phase-1 & Phase -IIAMC Details of all Sub Stations**

Annexure-XIII

SL No	State	Sub Station	Utilities	TOC Date	TOC Month	AMC End Date	Total Meter
1	West Bengal	DSTPS	DVC	15-Mar-14	Mar-14	Mar-19	78
2	Jharkhand	Jamshedpur	PG	30-Mar-14	Mar-14	Mar-19	
3	West Bengal	Jeerat	WBSEB	15-Mar-14	Mar-14	Mar-19	
4	West Bengal	K'neswari	DVC	30-Mar-14	Mar-14	Mar-19	
5	West Bengal	Kolaghat	DVC	15-Mar-14	Mar-14	Mar-19	
6	West Bengal	Maithon	DVC	24-Mar-14	Mar-14	Mar-19	
7	West Bengal	Maithon	PG	30-Mar-14	Mar-14	Mar-19	
8	West Bengal	Malda	WBSEB	30-Mar-14	Mar-14	Mar-19	
9	West Bengal	Mejia	DVC	30-Mar-14	Mar-14	Mar-19	
10	Jharkhand	Ramchandrapur	JSEB	30-Mar-14	Mar-14	Mar-19	
11	West Bengal	Siliguri	PG	31-Mar-14	Mar-14	Mar-19	
12	West Bengal	Subhasgram	PG	30-Dec-13	Mar-14	Mar-19	
13	West Bengal	Waria	DVC	30-Mar-14	Mar-14	Mar-19	
14	Jharkhand	Barhi	DVC	30-Apr-14	Apr-14	Apr-19	89
15	Odisha	Baripada	PG	15-Apr-14	Apr-14	Apr-19	
16	West Bengal	Bidhannagar	WBSEB	15-Apr-14	Apr-14	Apr-19	
17	West Bengal	Binaguri	PG	15-Apr-14	Apr-14	Apr-19	
18	West Bengal	Birpara	WBSEB	15-Apr-14	Apr-14	Apr-19	
19	West Bengal	Birpara	PG	15-Apr-14	Apr-14	Apr-19	
20	Jharkhand	Chandil	JSEB	30-Apr-14	Apr-14	Apr-19	
21	Jharkhand	Garwa	JSEB	30-Apr-14	Apr-14	Apr-19	
22	Jharkhand	Hatia	JSEB	30-Apr-14	Apr-14	Apr-19	
23	Jharkhand	Jamshedpur	DVC	30-Apr-14	Apr-14	Apr-19	
24	West Bengal	Kalimpong	WBSEB	30-Apr-14	Apr-14	Apr-19	
25	West Bengal	Maithon RB	MPL	30-Apr-14	Apr-14	Apr-19	
26	Jharkhand	Manique	DVC	30-Apr-14	Apr-14	Apr-19	
27	SIKKIM	Melli	SIKKIM	30-Apr-14	Apr-14	Apr-19	47
28	West Bengal	NBU	WBSEB	15-Apr-14	Apr-14	Apr-19	
29	West Bengal	Sagardihi	WBSEB	15-Apr-14	Apr-14	Apr-19	
30	West Bengal	Teesta	NHPC	30-Apr-14	Apr-14	Apr-19	
31	West Bengal	Dalkhola	WBSEB	30-May-14	May-14	May-19	
32	Jharkhand	Deogarh	JSEB	15-May-14	May-14	May-19	
33	Jharkhand	Dhanbad	DVC	15-May-14	May-14	May-19	
34	Jharkhand	Jamtara	JSEB	15-May-14	May-14	May-19	
35	Odisha	Joda	GRIDCO	30-May-14	May-14	May-19	
36	Bihar	Kishanganj	BSEB	30-May-14	May-14	May-19	
37	West Bengal	Parulia	DVC	30-May-14	May-14	May-19	
38	Jharkhand	Patratu	DVC	15-May-14	May-14	May-19	
39	Bihar	Purnea	BSEB	30-May-14	May-14	May-19	
40	Bihar	Purnea	PG	30-May-14	May-14	May-19	
41	West Bengal	Rammam	WBSEB	30-May-14	May-14	May-19	
42	SIKKIM	Rangit	NHPC	30-May-14	May-14	May-19	
43	West Bengal	Santaldih	WBSEB	30-May-14	May-14	May-19	
44	Jharkhand	Tenughat	JSEB	15-May-14	May-14	May-19	
45	Odisha	Jindal	GRIDCO	30-May-14	May-14	May-19	
46	Jharkhand	Japla	JSEB	15-May-14	May-14	May-19	
47	Bihar	Arah	BSEB	15-Jun-14	Jun-14	Jun-19	67
48	Bihar	Arah	PG	15-Jun-14	Jun-14	Jun-19	
49	Odisha	Baripada	GRIDCO	30-Jun-14	Jun-14	Jun-19	
50	Odisha	Budhipadar	GRIDCO	15-Jun-14	Jun-14	Jun-19	
51	Bihar	Dumraon	BSEB	15-Jun-14	Jun-14	Jun-19	
52	West Bengal	Malda	PG	30-Jun-14	Jun-14	Jun-19	
53	Odisha	Mendashal	GRIDCO	15-Jun-14	Jun-14	Jun-19	
54	Odisha	M'mundali	GRIDCO	15-Jun-14	Jun-14	Jun-19	
55	Odisha	Rengali	GRIDCO	15-Jun-14	Jun-14	Jun-19	
56	Odisha	Rengali	PG	15-Jun-14	Jun-14	Jun-19	
57	Odisha	Rourkela	GRIDCO	15-Jun-14	Jun-14	Jun-19	
58	Odisha	Rourkela	PG	15-Jun-14	Jun-14	Jun-19	
59	Odisha	Sterlite	IPPR	15-Jun-14	Jun-14	Jun-19	
60	Odisha	Tarkera	GRIDCO	15-Jun-14	Jun-14	Jun-19	
61	Bihar	Biharshariff	BSEB	15-Jul-14	Jul-14	Jul-19	
62	Bihar	Dehri	BSEB	15-Jul-14	Jul-14	Jul-19	
63	Jharkhand	Goelkera	JSEB	30-Jul-14	Jul-14	Jul-19	
64	Bihar	Kahalgaoon	BSEB	30-Jul-14	Jul-14	Jul-19	
65	Bihar	Mohania	BSEB	15-Jul-14	Jul-14	Jul-19	
66	Bihar	Rajgir	BSEB	15-Jul-14	Jul-14	Jul-19	
67	Bihar	Sabour	BSEB	15-Jul-14	Jul-14	Jul-19	
68	Bihar	Sonengar	BSEB	15-Jul-14	Jul-14	Jul-19	

69	Bihar	Sultanganj	BSEB	15-Jul-14	Jul-14	Jul-19	
70	Jharkhand	Kendoposi	JSEB	30-Jul-14	Jul-14	Jul-19	
71	Bihar	Khagaul	BSEB	15-Jul-14	Jul-14	Jul-19	
72	Bihar	Kanti	BSEB	15-Jul-14	Jul-14	Jul-19	34
73	Odisha	Bolangir	PG	30-Aug-14	Aug-14	Aug-19	
74	Odisha	Indravati P/H	GRIDCO	15-Aug-14	Aug-14	Aug-19	
75	Odisha	Indravati	PG	15-Aug-14	Aug-14	Aug-19	
76	Odisha	Jeypore	GRIDCO	15-Aug-14	Aug-14	Aug-19	
77	Odisha	Jeypore	PG	15-Aug-14	Aug-14	Aug-19	
78	Odisha	Keonjhar	PG	30-Aug-14	Aug-14	Aug-19	
79	Jharkhand	Lalmatia	JSEB	15-Aug-14	Aug-14	Aug-19	
80	Odisha	Rairangpur	GRIDCO	15-Aug-14	Aug-14	Aug-19	23
81	Odisha	Talcher	NTPC	15-Sep-14	Sep-14	Sep-19	27
82	West Bengal	Durgapur	PG	30-Nov-14	Nov-14	Nov-19	12
83	Odisha	Balasore	GRIDCO	30-Dec-14	Dec-14	Dec-19	
84	Bihar	Barh	NTPC	30-Dec-14	Dec-14	Dec-19	
85	Bihar	Biharshariff	PG	15-Dec-14	Dec-14	Dec-19	
86	West Bengal	Farakka	NTPC	31-Dec-14	Dec-14	Dec-19	
87	Sikkim	Gangtok	PG	30-Dec-14	Dec-14	Dec-19	
88	Bihar	Gaya	PG	30-Dec-14	Dec-14	Dec-19	
89	Bihar	Kahalgaon	NTPC	30-Dec-14	Dec-14	Dec-19	
90	Bihar	Karmanasha	BSEB	15-Dec-14	Dec-14	Dec-19	
91	Bihar	Mzaffarpur	PG	30-Dec-14	Dec-14	Dec-19	
92	Bihar	Patna	PG	30-Dec-14	Dec-14	Dec-19	
93	Jharkhand	Patratu	JSEB	15-Dec-14	Dec-14	Dec-19	
94	Jharkhand	Ranchi	PG	30-Dec-14	Dec-14	Dec-19	199
95	Bihar	Pusauli	PG	21-Jan-15	Jan-15	Jan-20	16
96	West Bengal	Berhampore	PG	30-May-15	May-15	May-20	
97	West Bengal	Dalkhola	PG	30-May-15	May-15	May-20	
98	Bihar	Fatua	BSEB	30-May-15	May-15	May-20	
99	Bihar	Hajipur	BSEB	30-May-15	May-15	May-20	
100	Bihar	Jagdishpur	BSEB	30-May-15	May-15	May-20	
101	Bihar	Sipara	BSEB	30-May-15	May-15	May-20	16
102	Odisha	Adhunik	IPPR	30-Jun-15	Jun-15	Jun-20	
103	Odisha	Angul	PG	30-Jun-15	Jun-15	Jun-20	
104	Bihar	Banka	BSEB	30-Jun-15	Jun-15	Jun-20	
105	Bihar	Bodhgaya	BSEB	30-Jun-15	Jun-15	Jun-20	
106	Sikkim	Chuzachen	IPPR	30-Jun-15	Jun-15	Jun-20	
107	Odisha	GMR	GRIDCO	30-Jun-15	Jun-15	Jun-20	
108	Odisha	Jindal	IPPR	30-Jun-15	Jun-15	Jun-20	
109	West Bengal	Kharagpur	WBSEB	30-Jun-15	Jun-15	Jun-20	
110	Jharkhand	Koderma	DVC	30-Jun-15	Jun-15	Jun-20	
111	West Bengal	Kurseong	WBSEB	30-Jun-15	Jun-15	Jun-20	
112	Bihar	Madhepura	BSEB	30-Jun-15	Jun-15	Jun-20	
113	Sikkim	Ravangla	SIKKIM	30-Jun-15	Jun-15	Jun-20	
114	Odisha	RTPS	DVC	30-Jun-15	Jun-15	Jun-20	
115	Odisha	Sundergarh	PG	30-Jun-15	Jun-15	Jun-20	
116	Jharkhand	TISCO	DVC	30-Jun-15	Jun-15	Jun-20	48
							656

## Annexure -IX

**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	Total Deviation charges payable to pool during 2020-21	Average weekly Deviation Charge liability	LC Amount	Defaulting Weeks	Due date of expiry	Remarks
					(C)/52 weeks	110% of (B)	(G)	(F)	(G)
		(A)	(B)	(C)	(D)	(E)	(G)	(F)	(G)
1	Bihar State Power	44	44	15486.42232	297.81581	327.59740	All Weeks		Not opened
2	Jharkhand State	29	29	3249.42448	62.48893	68.73783	All Weeks		Not opened
3	Damodar Valley	39	10	5182.62395	99.66585	109.63243	Week-		Not opened
4	Gridco Limited / ग्रीडको	19	16	1491.44787	28.68169	31.54986	Week-3,6,7		Not opened
5	SLDC - UI FUND -	49	8	15847.84952	304.76634	335.24297	Week-40,45		Not opened
6	Power Deptt, Govt. of	17	17	316.50994	6.08673	6.69540	Week-1,14,15,26		Not opened
7	NTPC Vidyut Vyapar	49	3	1678.7775	32.28418	35.51260	Week-32		Not opened
8	Tata Power Trading Co.	50	1	1846.83267	35.51601	39.06761	Week-16		Letter given to waive off charges
9	DANS Energy Private	50	35	896.75536	17.24530	18.96982	Week-10,19,21,23		Existing LC of 1.88477 Lac expired on 16.06.21
10	Powergrid Corporation	16	7	13.28148	0.25541	0.28095	Week-		Existing Lc of 0.34759 Lac is expired
11	Sneha Kinetic Power	13	6	94.76031	1.82231	2.00455	Week- 5,28,44	12-05-2022	Rs 2.01000 Lac Opened
12	Jindal India Thermal	34	20	771.65579	14.83953	16.32349	Week-5,11,18	30.06.21	to be expired on 30.06.21 LC existing of 20.67845 Lac
13	PGCIL-Alipurduar /	24	24	6.91552	0.13299	0.14629	Week-3,4,5,15		Not opened
14	Shiga Energy Private /	40	35	435.95072	8.38367	9.22203	Week-4,10,19,22		Not opened
15	Kanti BijleeUtpadan	46	3	453.16224	8.71466	9.58612	Week-32		Not opened



## List of Drifted Main Meters to be replaced : ER

Annexure-X

UTILITY	SNO	LOCATIO	FEEDER NAME	METER NO	TIME DIFFER(min)
<b>BIHAR</b>	1	BI-57	220 KV BIHARSHARIFF (BSPHCL) - TENUGHAT (JSEB)	NP-5844-A	6
	2	BI-13	220 KV KHAGAUL(BSPHCL) - ARAH (PG)-1	NP-8641-A	
	3	BI-14	220 KV KHAGAUL(BSPHCL) - ARAH (PG)-2	NP-6060-A	
	4	BI-33	220 KV NADHOKHAR(BSPHCL)- PUSAULI (PG)-2	NP-8665-A	-12
	5	BI-21	132 KV BAISI(BSPHCL) - DALKHOLA (WBSETCL)	NP-6085-A	
	6	BI-09	132 KV KAHALGAON(BSPHCL) - LALMATIA(JSEB)	NP-6071-A	22
	7	BI-61	132 KV SULTANGANJ (BSPHCL) - DEOGARH (JSEB)	NP-7400-A	22
<b>JHARKHAND</b>	1	JS-51	220 KV RAMCHANDRAPUR (JSEB) - JODA (GRIDCO)	NP-6102-A	13
	2	JS-57	220 KV CHANDIL (JSEB) - SANTALDIH (WBSETCL)	NP-7436-A	27
	3	JS-62	220 KV TENUGHAT (JSEB) - BIHARSHARIFF (BSPHCL)	NP-6115-A	17
	4	JS-52	132 KV KENDOPOSI (JSEB) - JODA (GRIDCO)	NP-6117-A	20
	5	JS-50	132 KV KENDOPOSI(JSEB)-JODA(GRIDCO) TRANSFER BUS	NP-8644-A	19
	6	JS-63	132 KV LALMATIA (JSEB) - KAHALGAON (BSPHCL)	NP-6107-A	19
	7	JS-64	132 KV JAPLA(JSEB) - SONENAGAR (BSPHCL)	NP-6112-A	-6
	8	JS-66	132 KV JAMTARA (JSEB) - MAITHON (DVC)	NP-6110-A	33
<b>DVC</b>	1	DV-20	400 KV KODERMA (DVC) - BIHARSHARIFF(PG)-I	NP-7831-A	13
	2	DV-21	400 KV KODERMA (DVC) - BIHARSHARIFF(PG)-II	NP-7830-A	14
	3	DV-40	400 KV KODERMA(DVC)-GAYA(PG) LINE-I(MAIN)	NP-7891-A	12
	4	DV-42	400 KV KODERMA(DVC)-GAYA(PG) LINE-II(MAIN)	NP-7890-A	14
	5	DV-10	400 KV DSTPS(DVC)-JAMSHEDPUR-I(MAIN)	NP-6524-A	-13
	6	DV-06	400 KV DSTPS(DVC)-JAMSHEDPUR(PG)-II(MAIN)	NP-6522-A	-5
<b>GRIDCO</b>	1	OR-21	400 KV MENDHASAL (GRIDCO)- PANDIABIL(PG)-1	NP-5980-A	
	2	OR-20	400 KV MENDHASAL (GRIDCO)- PANDIABIL(PG)-2	NP-7498-A	
	3	OR-22	400 KV DUBURI (GRIDCO)- BARIPADA(PG)	NP-7916-A	22
	4	OR-23	400 KV DUBRI(GRIDCO)-PANDIABIL(PG)	NP-7915-A	30
	5	OR-53	220 KV JODA (GRIDCO)-RAMCHANDRAPUR (JSEB)	NP-5937-A	15
	6	OR-54	220 KV JINDAL (GRIDCO)-JAMSHEDPUR (DVC)	NP-6502-A	
	7	OR-52	132 KV JODA (GRIDCO)-KENDOPOSI (JSEB)	NP-5939-A	15
	8	OR-13	400 KV INDRAVATI P/H (GRIDCO)-INDRAVATI(PG)	NP-5967-A	11
	9	OR-56	220 KV BUDHIPADAR (GRIDCO) - RAIGARH (PG)	NP-5940-A	6
	10	OR-57	220 KK BUDHIPADAR (GRIDCO)-KORBA(MPEB)-2	NP-5941-A	7
	11	OR-59	220 KK BUDHIPADAR (GRIDCO)-KORBA(MPEB)-3	NP-5944-A	6
<b>WEST BENGAL</b>	1	WB-29	400 KV KHARAGPUR(WB)-CHAIBASA(PG)-2	NP-8720-A	
	2	WB-30	400 KV KHARAGPUR(WB)-CHAIBASA(PG)-1	NP-8731-A	
	3	WB-53	220 KV SANTALDIH (WBSETCL) - CHANDIL(JSEB)	NP-7942-A	29
	4	WB-57	132 KV KURSEONG(WBSETCL)-RANGIT(NHPC)	NP-7541-A	
	5	WB-58	132 KV KURSEONG(WBSETCL)-SILIGURI(NHPC)	NP-7542-A	
	6	WB-52	132 KV DALKHOLA (WBSETCL)-BAISI(BSPHCL)	NP-8741-A	
	7	WB-59	66 KV KALIMPONG (WBSETCL) - MELLI (SIKKIM)	NP-5994-A	
<b>SIKKIM</b>	1	SM-51	66 KV MELLI (SIKKIM) - KALIMPONG (WBSETCL)	NP-5849-A	
	2	SM-01	66 KV RAVANGLA (SIKKIM) - RANGIT (NHPC)	NP-6481-A	

**Annexure-XI**  
**Date: 21-June-21**

Status Report of PGCIL AMR AMC (Phase I, II & III)	
Summary	
Total Substation	150
Communicating Sub Station	126
Non-communicating Sub Station	24
Total Meter	998
Communicating meter	926
Non-communicating Meter	72

Details of Non-communicating Sub Stations				
SNO	Utility Name	Substation Name	Total Meter	Probable issue
1	BIHAR	ARAH(ARB)	1	GPRS issue.
2	WB	BIDHANNAGAR(BDN)	2	GPRS issue. Poor network connectivity.
3	NTPC	DARLIPALLI	4	GPRS issue. Need PGCIL LAN provision .
4	BIHAR	DEHRI(DEH)	3	GPRS issue.
5	SIKKIM	DIKCHU	3	GPRS issue. Poor network connectivity.
6	BIHAR	FATUA(FAT)	1	Meter RS-485 port issue. Request to replace the meter.
7	IPPR	IND-BARATH(IBR)	6	Unable to communicate with substation regarding AMC work .
8	SIKKIM	JORTHANG	6	GPRS issue.
9	WB	KALIMPONG(KLM)	1	GPRS issue.
10	BIHAR	KISHANGANJ(KSN)	2	Meter RS-485 port issue. Request to replace the meter.
11	DVC	MANIQUE(MNQ)	1	GPRS issue.
12	GRIDCO	MENDHASAL(MEN)	2	GPRS issue.
13	BSEB	NALANDA	1	Suspecting GPRS issue. Site engineer will visit there shortly to check the issue.
14	GRIDCO	NEW DUBRI(DBR)	2	GPRS issue.
15	POWERGRID	GAYA	5	Replaced meter. Will be connected soon after travel restrictions due COVID-19 ends.
16	POWERGRID	PATNA	3	GPRS Service inactive SIM issue.
17	POWERGRID	PUSAULI	4	Suspecting GPRS issue. Site engineer will visit there shortly to check the issue.
18	BSEB	RAJGIR	2	GPRS issue. Need PGCIL LAN provision .
19	WB	RAMMAM(RMM)	1	GPRS issue.
20	BSEB	SABOUR	3	Suspecting GPRS issue. Site engineer will visit there shortly to check the issue.
21	IPPR	STERLITE(SEL)	10	Unable to communicate with substation regarding AMC work
22	NTPC	TALCHER SOLAR(TLS)	6	TCS will visit there and will do necessary AMC work shortly.
23	DVC	TISCO(TIS)	2	Replaced meter. Substation did not allow for meter integration work.
24	SIKKIM	RAVANGLA(RVG)	1	GPRS issue. Poor network connectivity.
<b>Total Non Comm</b>			<b>72</b>	

27	WB	RAMMAM(RMM)	1	GPRS issue.
28	BSEB	SABOUR	3	GPRS issue.
29	BSEB	SIPARA (SIP)	3	GPRS issue. Poor network connectivity.
30	IPPR	STERLITE(SEL)	10	Unable to communicate with substation regarding AMC work
31	NTPC	TALCHER SOLAR(TLS)	6	TCS will visit there and will do necessary AMC work shortly.

Total Non Comm	72
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## List of Meters and Location for AMR 4th Phase implementation

S.No	MAKE	Meter Serial No	LOCATION	S.No	MAKE	Meter Serial No	LOCATION
1	L&T	NP-7885-A	LAKHISARAI(PG)	133	GENUS	ER-1135-A	BERHAMPORE(PG)
2	L&T	NP-7886-A		134	GENUS	ER-1140-A	
3	L&T	NP-7429-A		135	GENUS	ER-1349-A	BANKA(PG)
4	L&T	NP-7429-A		136	GENUS	ER-1347-A	
5	L&T	NP-7887-A		137	GENUS	ER-1350-A	
6	L&T	NP-7430-A		138	GENUS	ER-1341-A	
7	L&T	NP-7888-A		139	GENUS	ER-1350-A	
8	L&T	NP-7431-A		140	GENUS	ER-1341-A	
9	GENUS	ER-1433-A		141	GENUS	ER-1015-A	ANGUL(PG)
10	GENUS	ER-1346-A		142	GENUS	ER-1016-A	
11	GENUS	ER-1104-A	143	GENUS	ER-1085-A		
12	GENUS	ER-1146-A	144	GENUS	ER-1087-A		
13	GENUS	ER-1005-A	145	GENUS	NP-7947-A		
14	GENUS	ER-1006-A	146	GENUS	ER-1554-A		
15	GENUS	ER-1002-A	147	GENUS	ER-1557-A	BIRPARA(PG)	
16	GENUS	ER-1004-A	148	GENUS	ER-1110-A		
17	GENUS	ER-1044-A	149	GENUS	ER-1041-A	CHAIBASA(PG)	
18	GENUS	ER-1047-A	150	GENUS	ER-1415-A		
19	GENUS	ER-1048-A	151	GENUS	ER-1420-A	BIRPARA(WB)	
20	GENUS	ER-1049-A	152	GENUS	ER-1079-A	BARIAPDA(PG)	
21	GENUS	ER-1465-A	153	GENUS	ER-1594-A	BARH(NTPC)	
22	GENUS	ER-1463-A	154	GENUS	ER-1446-A	JAMSHEDPUR(PG)	
23	GENUS	ER-1469-A	155	GENUS	ER-1220-A	RANGPO(PG)	
24	GENUS	ER-1467-A	156	GENUS	ER-1468-A	KISHANGANJ(PG)	
25	GENUS	ER-1473-A	157	GENUS	ER-1153-A		
26	GENUS	ER-1474-A	158	GENUS	ER-1160-A		
27	GENUS	ER-1475-A	159	GENUS	ER-1293-A		
28	GENUS	ER-1476-A	160	GENUS	ER-1296-A		
29	GENUS	ER-1492-A	161	GENUS	ER-1159-A		
30	GENUS	ER-1494-A	162	GENUS	ER-1154-A	MALDA(PG)	
31	GENUS	ER-1532-A	163	GENUS	ER-1437-A		
32	GENUS	ER-1498-A	164	GENUS	ER-1438-A	MEJIA(DVC)	
33	GENUS	ER-1046-A	165	GENUS	ER-1531-A		
34	GENUS	ER-1088-A	166	GENUS	ER-1536-A	MPL	
35	GENUS	ER-1089-A	167	GENUS	ER-1008-A		
36	GENUS	ER-1233-A	168	GENUS	ER-1031-A		
37	GENUS	ER-1240-A	169	GENUS	ER-1122-A	NABINAGAR(BRBL)	
38	GENUS	ER-1210-A	170	GENUS	ER-1123-A		
39	GENUS	ER-1207-A	171	GENUS	ER-1124-A		
40	GENUS	ER-1216-A	172	GENUS	ER-1129-A		
41	GENUS	ER-1219-A	173	GENUS	ER-1418-A		
42	GENUS	ER-1213-A	174	GENUS	ER-1414-A		
43	GENUS	ER-1214-A	175	GENUS	ER-1281-A	NEW MELLI(PG)	
44	GENUS	ER-1094-A	176	GENUS	ER-1299-A		
45	GENUS	ER-1097-A	177	GENUS	ER-1292-A	DURGAPUR(PG)	
46	GENUS	ER-1091-A	178	GENUS	ER-1294-A		
47	GENUS	ER-1095-A	179	GENUS	ER-1461-A	RAMCHANDARPUR(JUSNL)	
48	GENUS	ER-1025-A	180	GENUS	ER-1470-A		
49	GENUS	ER-1024-A	181	GENUS	ER-1491-A	RENGALI(PG)	
50	GENUS	ER-1295-A	182	GENUS	ER-1496-A		
51	GENUS	ER-1158-A	183	GENUS	ER-1298-A	RANCHI(PG)	
52	GENUS	ER-1156-A	184	GENUS	ER-1020-A		
53	GENUS	ER-1157-A	185	GENUS	ER-1402-A	BIDHANAGAR(WB)	
54	GENUS	ER-1001-A	186	GENUS	ER-1083-A		
55	GENUS	ER-1009-A	187	GENUS	ER-1012-A	25 OLT	
56	GENUS	ER-1052-A	188	GENUS	ER-1093-A		
57	GENUS	ER-1027-A	189	GENUS	ER-1100-A		
58	GENUS	ER-1112-A	190	GENUS	ER-1019-A	29 NEW	

59	GENUS	ER-1026-A	OPGC
60	GENUS	ER-1030-A	
61	GENUS	ER-1053-A	
62	GENUS	ER-1066-A	
63	GENUS	ER-1068-A	
64	GENUS	ER-1060-A	
65	GENUS	ER-1456-A	TEESTA-III
66	GENUS	ER-1541-A	
67	GENUS	ER-1542-A	
68	GENUS	ER-1546-A	
69	GENUS	ER-1543-A	
70	GENUS	ER-1519-A	
71	GENUS	ER-1545-A	
72	GENUS	ER-1547-A	
73	GENUS	ER-1450-A	
74	GENUS	ER-1549-A	
75	GENUS	ER-1548-A	MOTIHARI(BSPTCL)
76	GENUS	ER-1250-A	
77	GENUS	ER-1245-A	MOTIPUR(BSPTCL)
78	GENUS	ER-1286-A	
79	GENUS	ER-1288-A	ATRI(GRIDCO)
80	GENUS	ER-1111-A	
81	GENUS	ER-1007-A	RAXAUL(BSPTCL)
82	GENUS	ER-1248-A	
83	GENUS	ER-1249-A	SAMANGARA(GRIDCO)
84	GENUS	ER-1113-A	
85	GENUS	ER-1073-A	SAMASTIPUR(BSPTCL)
86	GENUS	ER-1223-A	
87	GENUS	ER-1227-A	BETIAH(BSPTCL)
88	GENUS	ER-1173-A	
89	GENUS	ER-1116-A	BHOGRAI(GRIDCO)
90	GENUS	ER-1114-A	
91	GENUS	ER-1127-A	JALESWAR(GRIDCO)
92	GENUS	ER-1003-A	
93	GENUS	ER-1131-A	SUBHASHGRAM(WBS)
94	GENUS	ER-1132-A	
95	GENUS	ER-1134-A	
96	GENUS	ER-1520-A	
97	L&T	LT-0312-A	
98	GENUS	ER-1451-A	SAGARDIGHI(WB)
99	GENUS	ER-1453-A	RAJARAHAT(PG)
100	GENUS	ER-1253-A	LAUKAHI(BSPHCL)
101	GENUS	ER-1409-A	
102	GENUS	ER-1373-A	KHIZIRSARAI(BSPHCL)
103	GENUS	ER-1377-A	
104	GENUS	ER-1584-A	KEONJHAR(GRIDCO)
105	GENUS	ER-1592-A	
106	GENUS	ER-1138-A	GOKARNA(WB)
107	GENUS	ER-1133-A	
108	GENUS	ER-1222-A	DARBHANGA(BSPTCL)
109	GENUS	ER-1224-A	
110	GENUS	ER-1195-A	
111	GENUS	ER-1192-A	
112	GENUS	ER-1197-A	
113	GENUS	ER-1196-A	
114	GENUS	ER-1199-A	
115	GENUS	ER-1193-A	
116	GENUS	ER-1191-A	
117	GENUS	ER-1155-A	
118	GENUS	ER-1206-A	
119	GENUS	ER-1152-A	
120	GENUS	ER-1201-A	
121	GENUS	ER-1205-A	
122	GENUS	ER-1202-A	
123	GENUS	ER-1204-A	
124	GENUS	ER-1434-A	
125	GENUS	ER-1431-A	
126	GENUS	ER-1432-A	
127	GENUS	ER-1203-A	

V LOCATIONS WITH 132 METERS

191	GENUS	ER-1118-A	SUNDERGARH(PG)
192	GENUS	ER-1022-A	
193	GENUS	ER-1062-A	
194	GENUS	ER-1023-A	
195	GENUS	ER-1117-A	
196	GENUS	ER-1119-A	
197	GENUS	ER-1021-A	
198	GENUS	ER-1067-A	
199	GENUS	ER-1061-A	
200	GENUS	ER-1070-A	
201	GENUS	ER-1065-A	SILIGURI(PG)
202	GENUS	ER-1064-A	
203	GENUS	ER-1500-A	
204	GENUS	ER-1493-A	
205	GENUS	ER-1217-A	
206	GENUS	ER-1218-A	PUSAULI(PG)
207	GENUS	ER-1318-A	
208	GENUS	ER-1319-A	
209	GENUS	ER-1372-A	RANCHI NEW(PG)
210	GENUS	ER-1379-A	
211	GENUS	ER-1378-A	
212	GENUS	ER-1236-A	
213	GENUS	ER-1237-A	
214	GENUS	ER-1221-A	
215	GENUS	ER-1230-A	
216	GENUS	ER-1371-A	
217	GENUS	ER-1355-A	
218	GENUS	ER-1358-A	
219	GENUS	ER-1436-A	PURNEA(PG)
220	GENUS	ER-1359-A	
221	GENUS	ER-1351-A	
222	GENUS	ER-1352-A	
223	GENUS	ER-1231-A	
224	GENUS	ER-1232-A	PATNA(PG)
225	L&T	NP-8862-A	
226	GENUS	ER-1311-A	
227	GENUS	ER-1407-A	
228	GENUS	ER-1314-A	
229	GENUS	ER-1408-A	PANDIABIL(PG)
230	GENUS	ER-1098-A	
231	GENUS	ER-1591-A	
232	GENUS	ER-1583-A	
233	GENUS	ER-1586-A	
234	GENUS	ER-1587-A	KEONJHAR(PG)
235	GENUS	ER-1588-A	
236	GENUS	ER-1590-A	
237	GENUS	ER-1552-A	
238	GENUS	ER-1551-A	
239	GENUS	ER-1263-A	GAYA(PG)
240	GENUS	ER-1170-A	
241	GENUS	ER-1262-A	
242	GENUS	ER-1261-A	
243	GENUS	ER-1375-A	
244	GENUS	ER-1380-A	
245	GENUS	ER-1163-A	
246	GENUS	ER-1416-A	
247	GENUS	ER-1419-A	
248	GENUS	ER-1411-A	
249	GENUS	ER-1448-A	BOLANGIR(PG)
250	GENUS	ER-1449-A	
251	GENUS	ER-1442-A	
252	GENUS	ER-1447-A	
253	GENUS	ER-1582-A	
254	GENUS	ER-1575-A	
255	GENUS	ER-1573-A	
256	GENUS	NP-7919-A	

J LOCATIONS WITH 124 METERS

128	GENUS	ER-1435-A	DALTONGANJ(PG)		
129	GENUS	ER-1198-A			
130	GENUS	ER-1194-A	DALTONGANJ(JUVNL)		
131	GENUS	ER-1344-A			
132	GENUS	ER-1342-A	BEGUSARAI(BSPTCL)		
					<b>TOTAL METERS = 256</b>

## Annexure-XIV

<b>List of Substation Connected with PGCIL Intranet connection(LAN)</b>			
<b>Sl No.</b>	<b>Substation name</b>	<b>Utility</b>	<b>LAN Integration Date</b>
1	Subhashgram	Powergrid	15-Jun-2017
2	Binaguri	Powergrid	20-Jul-2017
3	Malda	Powergrid	06-Jun-2018
4	Kishanganj	Powergrid	15-Jul-2018
5	Siliguri	Powergrid	12-Sep-2018
6	Gangtok	Powergrid	15-Sep-2018
7	Rourkela	Powergrid	03 – Oct – 2018
8	Gaya	Powergrid	25 – Dec - 2018
9	Biharshariff	Powergrid	27 – Dec – 2018
10	Arah	Powergrid	29 – Oct – 2018
11	Jamshedpur	Powergrid	02 – Nov – 2018
12	Rangpo	Powergrid	05 – Dec – 2018
13	Durgapur	Powergrid	07 – Dec – 2018
14	Jeypore	Powergrid	10 – Dec – 2018
15	Maithon(MTN)	Powergrid	11 – Dec – 2018
16	Pusaul	Powergrid	19 – Dec – 2018
17	Muzaffarpur	Powergrid	20 – Dec – 2018
18	Barh	NTPC	21 – Dec – 2018
19	Kahalgaon	NTPC	21 – Dec – 2018
20	Purnea	Powergrid	24 – Dec – 2018
21	Banka	Powergrid	27 – Dec – 2018
22	Teesta	NHPC	01 – Jan – 2019
23	Rangit	NHPC	02 – Jan – 2019
24	Baripada	Powergrid	15 – Nov – 2018
25	Ranchi	Powergrid	10 – Jan – 2019
26	Talcher	NTPC	16 – Jan – 2019
27	Farakka	NTPC	22 – Jan – 2019
28	Chaibasa	Powergrid	28 – Jan – 2019
29	Dalkhola	Powergrid	28 – Jan – 2019
30	Birpara	Powergrid	29 – Jan – 2019
31	Rajarhat	Powergrid	18 – Apr – 2019
32	Kanti	NTPC	28 – May – 2019
33	Patna	Powergrid	20-Sep-19
34	Behrampore	Powergrid	18-Nov-19
35	Pandiabil	Powergrid	30-Jan-2020
36	Mejia	DVC	30-Sep-2020
37	RTPS	DVC	25-Feb-2021
38	Bolangir	Powergrid	26-Feb-2021
39	New Melli	Powergrid	04-Mar-2021
40	Sundergarh	Powergrid	12-Mar-2021

List of Meter to be Removed			
SI No.	STATION	BAY	Meter No.
1	STERLITE	STERLITE GT-1	NP-6540-A
2	STERLITE	STERLITE GT-2	NP-6528-A
3	STERLITE	STERLITE GT-3	NP-6555-A
4	STERLITE	STERLITE GT-4	NP-6556-A
5	STERLITE	STERLITE ST-1	NP-6543-A
6	STERLITE	STERLITE ST-2	NP-6527-A
7	MEJIA (DVC)	400 KV SIDE OF MEJIA GT-1	NP-6534-A
8	MEJIA (DVC)	400 KV SIDE OF MEJIA GT-2	NP-6532-A
9	MEJIA (DVC)	400 KV SIDE OF MEJIA STN TRANSF-1	NP-7943-A
10	MEJIA (DVC)	400 KV SIDE OF MEJIA STN TRANSF-2	NP-6533-A
11	MEJIA (DVC)	400 KV MAITHON(DVC) (CHECK)	NP-6776-A
12	DSTPP (ANDAL)	400 KV SIDE OF GT-I (MAIN)	NP-6554-A
13	DSTPP (ANDAL)	400 KV SIDE OF GT-I (CHECK)	NP-6497-A
14	DSTPP (ANDAL)	400 KV SIDE OF STN TRF-I (MAIN)	NP-6496-A
15	DSTPP (ANDAL)	400 KV SIDE OF STN TRF-I (CHECK)	NP-6498-A
16	JEERAT (WBSETCL)	400 KV SAGARDIGHI(WB)	ER-1477-A
17	KOLAGHAT (WBSETCL)	400 KV KHARAGPUR (WBSETCL)	NP-6487-A
18	SAGARDIGHI(WBSETCL)	400 KV JEERAT(WB)(MAIN)	ER-1134-A
19	SAGARDIGHI(WBSETCL)	400 KV JEERAT(WB)(CHECK)	ER-1520-A
20	IBEUL	400 KV SIDE STN TRF-1	NP-8783-A
21	IBEUL	400 KV SIDE STN TRF-2	NP-8782-A
22	IBEUL	400 KV SIDE GEN TRF-1	NP-8784-A
23	IBEUL	400 KV SIDE GEN TRF-2	NP-8796-A
24	CHAIBASA(JUVNL)	220 KV CHAIBASA(JUVNL)-JODA(GRIDCO)	NP-8867-A
25	MELLI (SIKKIM)	132 KV SAGBARI(SIKKIM)	NP-5997-A
26	SAGBARI(SIKKIM)	132 KV MELLI(SIKKIM)	NP-8797-A
27	SAGBARI(SIKKIM)	132 KV GYALSHING(SIKKIM)	NP-8798-A
28	GYALSHING(SIKKIM)	132 KV SAGBARI(SIKKIM)	NP-8730-A
29	KOLAGHAT(DVC)	132KV KOLAGHAT (WBSETCL)	NP-6558-B
30	NABINAGAR(BRBCL)	6.6 KV INCOMING FEEDER AT SC BUS	ER-1418-A
31	NABINAGAR(BRBCL)	6.6 KV INCOMING FEEDER AT SD BUS	ER-1414-A
32	DSTPS(DVC)	400 KV JAMSHEDPUR (PG)-II (CHECK)	NP-6523-A
33	DSTPS(DVC)	400 KV JAMSHEDPUR-I (CHECK)	NP-6525-A
34	MEJIA (DVC)	400KV JAMSHEDPUR (PG) (CHECK)	NP-7493-A
35	MEJIA (DVC)	400 KV MEJIA(DVC)-MAITHON(PG)-1(CHECK)	NP-7494-A
36	MEJIA (DVC)	400 KV MEJIA(DVC)-MAITHON(PG)-2(CHECK)	NP-7495-A
37	RTPS(DVC)	400 KV MAITHON(PG)- II (CHECK)	NP-7531-A
38	RTPS(DVC)	400 KV RANCHI(PG)- II (CHECK)	NP-7562-A
39	KODERMA (DVC)	400 KV GAYA(PG)-I (CHECK)	NP-7892-A
40	KODERMA (DVC)	400 KV GAYA(PG)-II (CHECK)	NP-7893-A
41	RTPS(DVC)	400 KV RANCHI(PG)-2(CHECK)	ER-1260-A
42	RTPS(DVC)	400 KV RANCHI(PG)-3(CHECK)	ER-1269-A
43	SAGARDIGHI(WBSETCL)	400 KV DURGAPUR (PG) -1 (CHECK)	NP-6547-A
44	SAGARDIGHI(WBSETCL)	400 KV DURGAPUR(PG)-1(CHECK)	NP-7990-A
45	SAGARDIGHI(WBSETCL)	400 KV SUBHASGRAM(PG) (CHECK)	LT-0312-A
46	SAGARDIGHI(WBSETCL)	400 KV FARAKKA(NTPC)-1 (CHECK)	LT-0191-A
47	SAGARDIGHI(WBSETCL)	400 KV BERHAMPORE(PG)-1(CHECK)	NP-8725-A
48	SAGARDIGHI(WBSETCL)	400 KV BERHAMPORE(PG)-2(CHECK)	NP-8722-A
49	SAGARDIGHI(WBSETCL)	400 KV FARAKKA(NTPC)-2(CHECK)	ER-1132-A

**No. 23/03/2016-R&R**  
**Government of India**  
**Ministry of Power**  
\*\*\*

**Shram Shakti Bhawan, New Delhi,**  
**Dated, the 29<sup>th</sup> January, 2021**

**ORDER**

**Subject: Renewable Purchase Obligation (RPO) trajectory - regarding.**

1. In exercise of the powers conferred under section 3(3) of Electricity Act, 2003, the Central Government had notified the revised Tariff Policy, which was published in Gazette of India, Extraordinary, Part-I, Section-1 dated 28.01.2016.

2. Para 6.4(1) of the Tariff Policy 2016 provides as follows:

*"Pursuant to provisions of section 86(1)(e) of the Act, the Appropriate Commission shall fix a minimum percentage of the total consumption of electricity in the area of a distribution licensee for purchase of energy from renewable energy sources, taking into account availability of such resources and its impact on retail tariffs. Cost of purchase of renewable energy shall be taken into account while determining tariff by SERCs. Long term growth trajectory of Renewable Purchase Obligations (RPOs) will be prescribed by the Ministry of Power in consultation with MNRE.*

*Provided that cogeneration from sources other than renewable sources shall not be excluded from the applicability of RPOs."*

3. In light of para 6.4(1) of the Tariff Policy 2016, and with the objective of creating renewable power capacity of 175 GW by March, 2022; the Ministry of Power, after consultation with Ministry of New and Renewable Energy, had notified the long term trajectory of Renewable Purchase Obligations (RPOs) for solar and non-solar power vide its orders dated 22<sup>nd</sup> July 2016 and 14<sup>th</sup> June 2018.

4. On 8<sup>th</sup> March 2019, the Government had issued an order detailing various policy measures to promote hydropower sector in India inter-alia declaring large hydropower projects including pumped storage projects having capacity of more than 25 MW (LHPs) which come into commercial operation after 8.3.2019 as renewable energy source and to specify Hydropower Purchase Obligation (HPO) within Non-Solar Renewable Purchase Obligation (RPO).

5. In compliance of the above decision and with the objective to add 30,000 MW of hydropower capacity by the year 2029-2030, Ministry of Power has prepared a revised trajectory of RPO including long term trajectory for HPO considering the LHPs commissioned after 8<sup>th</sup> March, 2019.

6. In super-session of orders dated 22<sup>nd</sup> July 2016 and 14<sup>th</sup> June 2018, the Ministry of Power hereby specifies the following RPO Trajectory-



Year	Solar RPO	Non-Solar RPO			Total RPO
		HPO	Other Non-Solar RPO	Total Non-Solar RPO	
2019-20	7.25%	-	10.25%	10.25%	17.50%
2020-21	8.75%	-	10.25%	10.25%	19%
2021-22	10.50%	0.18%	10.50%	10.68%	21.18%
2022-23	To be specified later	0.35%	To be specified later	To be specified later	To be specified later
2023-24		0.66%			
2024-25		1.08%			
2025-26		1.48%			
2026-27		1.80%			
2027-28		2.15%			
2028-29		2.51%			
2029-30		2.82%			

7. RPO shall be calculated in energy terms as a percentage of total consumption of electricity excluding consumption met from hydro sources (LHPs).

8. Solar RPO may be met by power produced from solar power plants – solar photo voltaic or solar-thermal.

9. Other Non-Solar RPO (excluding HPO), may be met from any renewable source other than solar and LHPs.

10. HPO benefits may be met from the power procured from eligible LHPs commissioned on and after 8.3.2019 and upto 31.03.2030 in respect of 70% of the total generated capacity for a period of 12 years from the date of commissioning. Free power is to be provided as per agreement with the State Government and that provided for Local Area Development Fund(LADF), shall not be included within this limit of 70% of the total generated capacity.

11. HPO liability of the State/ Discom could be met out of the free power being provided to the State from LHPs commissioned after 08.03.2019 as per agreement at that point of time excluding the contribution towards LADF if consumed within the State/Discom. Free power (not that contributed for Local Area Development) only to extent of HPO liability of the State/Discom, shall be eligible for HPO benefit.

12. In case the free power, as above, is insufficient to meet the HPO obligations, then the State would have to buy the additional hydro power to meet its HPO obligations or may

have to buy the corresponding amount of Hydro Energy Certificate to meet the non-solar hydro renewable purchase obligations.

13. The Hydro Energy Certificate mechanism under Regulation to be developed by CERC to facilitate compliance of HPO Obligation, would have a capping price of Rs.5.50/Unit of electrical energy w.e.f 8<sup>th</sup> March 2019 to 31<sup>st</sup> March, 2021 and with annual escalation @5% thereafter for purposes of ensuring HPO compliance.

14. The above HPO Trajectory shall be tried up on an annual basis depending on the revised commissioning schedule of Hydro projects. The HPO Trajectory for the period between 2030-31 and 2039-40 shall be notified subsequently.

15. Hydro power imported from outside India shall not be considered for meeting HPO.

16. On achievement of Solar RPO compliance to the extent of 85% and above, remaining shortfall, if any, can be met by excess non-solar energy consumed beyond specified Non-Solar RPO for that particular year. Similarly, on achievement of Other Non-Solar RPO compliance to the extent of 85% and above, remaining shortfall if any, can be met by excess solar or eligible hydro energy consumed beyond specified Solar RPO or HPO for that particular year. Further, on achievement of HPO compliance to the extent of 85% and above, remaining shortfall, if any, can be met by excess solar or other non-solar energy consumed beyond specified Solar RPO or Other Non-Solar RPO for that particular year.

17. POSOCO will maintain data related to compliance of RPOs.

18. Further the SERCs may consider to notify RPO trajectory including HPO for their respective States in line with aforesaid RPO trajectory. Moreover CERC may consider to devise suitable mechanism similar to Renewable Energy Certificate (REC) mechanism to facilitate fulfillment of HPO.

19. This issues with the approval of Minister of State (I/C) for Power.



(Ghanshyam Prasad)  
Joint Secretary to the Government of India  
Tele No. 23710389

**To**

1. Principal Secretary/Secretary (Power / Energy), State Governments/UTs.
2. Secretary, CERC/FOR, Chandernagore Building, Janpath, New Delhi
3. Secretary, State Electricity Regulatory Commissions/Joint Electricity Regulatory Commissions

**Copy to:**

1. Secretary, MNRE, CGO Complex, New Delhi
2. Chairperson, CEA, Sewa Bhawan, RK Puram, New Delhi

**Copy also for information to:**

1. All Joint Secretaries, Ministry of Power
2. PS to MOS (I/C) for Power & NRE and MoS for SDE.
3. Sr. PPS to Secretary (Power), PPS to AS(SKGR), PPS to AS(VKD), Sr.PPS to Sr. Advisor, Sr. PPS to JS (R&R), PS to DS(R&R)

## Fwd: Renewable Purchase Obligation



Kailash Saini <kcmsaini@gmail.com>

Wed 6/30/2021 12:09 PM

To: Manas Das (मानस दास) ^

Reply all |

Inbox

RPO Compliance Report...  
453 KB

Show all 1 attachments (453 KB) Download

----- Forwarded message -----

From: Tarun Singh <tarun.singh@nic.in>

Date: Tue, Jun 29, 2021 at 6:11 PM

Subject: Renewable Purchase Obligation

To: cmd <cmd@posoco.in>

Cc: Mr. Indu Shekhar Chaturvedi <secy-mnre@nic.in>, Manoj Kumar Singh IAS <manoj.ksingh82@gov.in>, Addl. Secy MNRE <as.mnre@gov.in>, PC Maithani <pcmaithani@nic.in>, AMITESH SINHA <amitesh.ks@gov.in>, Minaxi Garg <minaxigarg@posoco.in>, Dipesh Pherwani <dipesh.mnre@gov.in>, Kailash Saini <kcmsaini@gmail.com>

**238/6/2020-EFM**  
**Government of India**  
**Ministry of New and Renewable Energy**

Block 14 CGO Complex,  
Lodhi Road New Delhi-110003

29 June 2021

**OFFICE MEMORANDUM**

**Subject: Renewable Purchase Obligation - reg**

In pursuant to Ministry of Power's Order dated 29 January 2021 on Renewable Purchase Obligation (RPO), and in continuation to discussions with POSOCO regarding RPO compliance monitoring, it has been decided that:-

- i. POSOCO will take over the task for RPO compliance monitoring at the State/UT level from 2021-22 onwards and progressively work towards compliance monitoring at the obligated entity level. POSOCO will also continue to work on the compliance report for 2020-21 for filling up any remaining data gaps; and
  - ii. POSOCO will submit quarterly reports to MNRE on RPO compliance. The reports will comprise State-wise RPO achievements, including categorization based on achievements (>100%, 60-100%, 40-60%, and <40%), trends and other relevant parameters.
2. The State/UT level RPO compliance report for the year 2020-21, developed in close coordination with POSOCO is enclosed.
  3. This issues with the approval of Hon'ble Minister for New & Renewable Energy and Power.

(Tarun Singh)  
Scientist D

To

New Delhi

Copy to

1. PS to Hon'ble Minister, NRE & Power
2. Sr.PPS to Secretary, MNRE
3. PS to Adviser (Policy), MNRE

--

पर्यावरण को बचाने के लिए, कागज बचाए

धन्यवाद

कैलाश चंद सैनी / Kailash Chand Saini

मुख्य प्रबंधक / Chief Manager

राष्ट्रीय भार प्रेषण केंद्र / National Load Despatch Center

पावर सिस्टम ऑपरेशन कॉर्पोरेशन / Power System Operation Corporation

9 वां तल, आई एफ सी आई टावर, 61, नेहरू प्लेस, / 9th Floor, IFCI Tower, 61, Nehru Place  
नई दिल्ली / New Delhi -110019



संदर्भ/Ref: पोसोको/आरपीओ POSOCO/RPO/

दिनांक/Date: 02.06.2021

सेवा में/To,

As per Distribution List

विषय/Subject: Request for details regarding Compliance of Renewable Purchase Obligation (RPO)

Sir,

This is for your kind information that Ministry of Power (MoP), Govt. of India vide order dated 29.01.2021 (copy enclosed), notified RPO Trajectory till FY 2021-22, which includes long term trajectory for Hydro Power Obligation (HPO) also. In addition, Para No. (17) of MoP Order dated 29.01.2021, stipulates POSOCO to maintain data related to compliance of RPOs. The matter of monitoring of RPO compliance has taken a high priority and regularly monitored by the MoP and MNRE.

Further, in order to comply with above MoP order, POSOCO initiated to explore the online portal as well as the process already in place, since Feb'21. Along with this, four numbers of communication have been already sent to all the State Nodal Agencies (SNAs) in the month of Feb'21 to May'21 and requested to provide the details relevant to compliance of RPO. However, we are yet to receive the RPO Compliance details at your end.

In order to facilitate compilation of details related to RPO compliance, it is hereby requested to advise the concerned to provide the following details pertaining to RPO Compliance:

- List of Obligated Entities viz.
  - Distribution Licensees (DISCOMs)
  - Open Access (OA) consumers
  - Captive Power Plant (CPP)
  - Any other consumer opting for both OA & CPP and it is not covered above
- RPO (%) specified by SERC for Solar, Non-solar, Hydro Power Obligation (HPO) & other (if any) from FY 2020-21 onward, along with copy of latest SERC notification(s)/Orders in this regard.
- RPO compliance status of Obligated Entities for complete FY 2020-21 at the earliest, in the enclosed format (this is in line with the format exercised by MNRE presently except for minor modification in line with MoP order dated 29.01.2021 to include HPO).
- Details of orders regarding any relaxation/ carry forward given by the Appropriate Commission to Obligated Entity related to Renewable Purchase Obligation.
- Suggestion/inputs for smooth RPO compliance monitoring, if any

-2/--

➤ Along with the aforementioned details, it is requested to advise the concerned to timely (within one month at the end of quarter) provide the quarterly RPO compliance status of Obligated Entities for FY 2021-22 for monitoring of RPO Compliance and for onward submission to MoP and MNRE in a timely manner. The RPO compliance status is to be sent to following nodal persons from POSOCO:

- Shri Manas Das, Chief Manager, ERLDC
- Shri Kailash Chand Saini, Chief Manager, NLDC

We request your kind co-operation and this regard and once again request to advise the concerned for timely submission of RPO compliance report. This is for kind information and perusal, please.

सादर धन्यवाद / Thanking you,

भवदीय / Yours faithfully



(मीनाक्षी गर्ग / Minaxi Garg)

Executive Director (RE, CP, C&M), CC, POSOCO

संलग्न/ Enclosed: उपरोक्त / As above

Copy to:

- (1) Shri D. K. Jain, Executive Director, Eastern Regional Load Despatch Centre, 14, Golf Club Road, Tollygunge, Kolkata -700 033

**Compliance Status of DISCOMs**

Annexure-XVII

Sr. No.	Name DISCOM	Address	Total Energy Consumption during FY ( _ - _ ) (in MWh)	Hydro Energy Consumption during FY ( _ - _ ) (in MWh)	Total Energy Consumption (-) Hydro Energy Consumption (A)	SN	RPO (%) specified by SERC		SERC RPO Target (in MWh) (B)	RE Procurement (in MWh) (C)	REC Purchased (D)	Total RE Procurement (in MWh) (E=C+D)	Surplus/ Deficit (in MWh) (F=E-B)	Actual % RE Consumption (E) * 100 / (A)	RPO (%) prescribed as per MoP	Compliance as per State RPO (%)	Compliance as per MoP Trajectory RPO (%)					
							(1)	(2)														
1						(1)	Solar															
						(2)	Non-solar															
						(3)	Hydro Renewable															
						(4)	Any Specific Non-solar RPO (%)															
						(5)	Total Non-solar															
						(6)	Total															

**Compliance Status of Open Access (OA) Consumers**

Sr. No.	Name OA Consumer (Capacity in MW)	Address	Total Energy Consumption during FY ( _ - _ ) (in MWh)	Hydro Energy Consumption during FY ( _ - _ ) (in MWh)	Total Energy Consumption (-) Hydro Energy Consumption (A)	SN	RPO (%) specified by SERC		SERC RPO Target (in MWh) (B)	RE Procurement (in MWh) (C)	REC Purchased + Self retained (D)	Total RE Procurement (in MWh) (E=C+D)	Surplus/ Deficit (in MWh) (F=E-B)	Actual % RE Consumption (E) * 100 / (A)	RPO (%) prescribed as per MoP	Compliance as per State RPO (%)	Compliance as per MoP Trajectory RPO (%)					
							(1)	(2)														
1						(1)	Solar															
						(2)	Non-solar															
						(3)	Hydro Renewable															
						(4)	Any Specific Non-solar RPO (%)															
						(5)	Total Non-solar															
						(6)	Total															

**Compliance Status of Captive Power Plant (CPP) Consumers**





## Annexure F

A	<i>Asset Under “Establishment of Communication System under Expansion/ Up-gradation of SCADA/EMS System at SLDCs in Eastern Region (BSPTCL and DVC)”</i>	DOCO	Remarks	Region
01	132 kV MTPS- Muzaffarpur (BH)	08.07.2018	DOCO Letter dtd. 16.12.2020	ER-I
02	132 kV MTPS- Motihari		DOCO Letter dtd. 16.12.2020	ER-I
03	132 kV Motihari- Bettiah		DOCO Letter dtd. 16.12.2020	ER-I
04	132 kV Pandaul- Gangwara		DOCO Letter dtd. 16.12.2020	ER-I
05	132 kV Bettiah- Ramnagar		DOCO Letter dtd. 16.12.2020	ER-I
06	132 kV Chandauti- Tehta		DOCO Letter dtd. 16.12.2020	ER-I
07	132 kV Masaurhi- Sipara		DOCO Letter dtd. 16.12.2020	ER-I
08	132 kV Tehta- Jehanabad		DOCO Letter dtd. 16.12.2020	ER-I
09	132 kV Jehanabad- Masaurhi		DOCO Letter dtd. 16.12.2020	ER-I
10	132 kV Madhepura- Saharsa		DOCO Letter dtd. 16.12.2020	ER-I
11	132 kV Gangwara- Darbhanga		DOCO Letter dtd. 16.12.2020	ER-I
12	132 kV Madhepura- Sonbarsa		DOCO Letter dtd. 16.12.2020	ER-I
13	132 kV Biharsharif (BH)- Nalanda	12.07.2019	DOCO Letter dtd. 16.12.2020	ER-I
14	132 KV Ara (PG)-Ara (BH)- Length : 2.225 KM	06/08/18	Communication Equipment Details as 14 Nos SDH Equipment{	ER-I
15	132 KV Banka (BH)-Banka (PG)- Length : 12.513KM			

16	132 KV Banka (PG)- Sabour -Length : 40.767 KM		FIBCOM Make, STM-4 MADM, 5 MSP}, 10 Nos. PDH Equipment (Valiant Make), 21 Nos. Eltek make DC Chargers & 1 Nos., HBL Make Battery Banks. <b>"DOCO Letter Dtd. 11.02.2021"</b>	
17	132 KV Sabour-Sultanganj- Length : 33.495KM			
18	132 KV Sultanganj- Jamalpur- Length : 34.041.KM			
19	132 KV Pandaul- Madhubani- Length : 14.55.KM			
20	132 KV Jamalpur- Lakhisarai (BH)- Length : 43.357 KM			
21	132 KV Lakhisarai (BH)- Lakhisarai (PG)- Length : 15.136 KM			
22	220 KV MTPS- Darbhanga (220)- Length : 67.905 KM			
<b>B</b>	<b><i>Eastern Region Strengthening Scheme-XVIII</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
1	2 nos. 765 KV line bays along with 240 MVAR (765 KV, 3x80 MVAR single phase units) switchable line Reactor with 750 Ohm NGR in each circuit along with associated bays at Ranchi (New) S/s for termination of Ranchi (New)-Medinipur 765 KV D/C line (line under TBCB)	09/02/21	<b>Corrigendum</b> DOCO Letter Dtd. 24.02.2021	ER I
2	2 nos. 765 KV line bays along with 240 MVAR (765 KV, 3x80 MVAR single phase units) switchable line Reactor with 750 Ohm NGR in each circuit along with associated bays at Ranchi (New) S/s for termination of Ranchi (New)-Medinipur 765 KV D/C line (line under TBCB)	09/02/21	DOCO Letter Dtd. 09.02.2021.	ER I
<b>C</b>	<b><i>Eastern Region Strengthening Scheme-XX</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
1	"Re-Conductoring of Rangpo-New Siliguri 400 kV D/C line with twin HTLS conductor and modification of 400 kV bay equipments at New Siliguri S/S.	31/03/21	DOCO Letter Dtd. 05.04.2021	ER II
<b>D</b>	<b><i>Eastern Region Strengthening Scheme-XVII-B</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
1	Replacement of 400/220 kV, 315 MVA ICT at Malda S/S with 400/220 kV, 500 MVA ICT (1st)	31/03/21	DOCO Letter Dtd. 05.04.2021	ER II

E	<b><i>Eastern Region Strengthening Scheme-XVII (Part-B)</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
1	315 MVA, 400/220 KV ICT-4 (In Parallel to ICT-2) at Roulkela Substation.	07/12/20	DOCO Letter Dtd. 05.01.2021	Odisha Proj.
F	<b><i>Eastern Region Strengthening Scheme-XVII (Part-B)</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
1	315 MVA, 400/220 KV ICT-3 (In Parallel to ICT-1) at Rourkela S/S.	02/03/21	DOCO Letter Dtd. 27.03.2021	Odisha Proj

## Annexure G

### List of Assets of PowerGrid Mithilanchal Transmission Limited (PMTL).

1	Establishment of new 400/220/132kV, 3x500MVA+3x200MVA S/s at Chandauti (New)	11/03/21	DOCOC Letter Dtd. 11.03.2021 enclsoed./ <b>(19.80%)</b>	ER-I/ PMTL
2	LILO of both circuits of Nabinagar-II-Gaya 400kV D/c (Quad Moose) line of POWERGRID at Chandauti (New)		DOCOC Letter Dtd. 11.03.2021 enclsoed./ <b>(3.61%)</b>	
3	Establishment of new 400/220/132 kV, 2x500MVA+2x500MVA S/s at Sitamarhi (New)	13/04/21	DOCOC Letter Dtd. 12.04.2021 enclsoed./ <b>(16.02%)</b>	
4	Darbhanga-Sitamarhi (New) 400 KV D/c line with Triple Snowbird Conductor		DOCOC Letter Dtd. 12.04.2021 enclsoed./ <b>(11.50%)</b>	
5	Substation Extension at Darbhanga S/s		DOCOC Letter Dtd. 12.04.2021 enclsoed./ <b>(2.05%)</b>	
6	Sitamarhi (New)- Motihari 400 kV D/C line with Triple Snowbird conductor	23/04/21	DOCOC Letter Dtd. 23.04.2021 enclsoed./ <b>(12.74%)</b>	
7	Substation Extension at Motihari S/s		DOCOC Letter Dtd. 23.04.2021 enclsoed./ <b>(4.71%)</b>	



**ANNEXURE H**

# Market Based Economic Dispatch (MBED) of Electricity

LENIN. B

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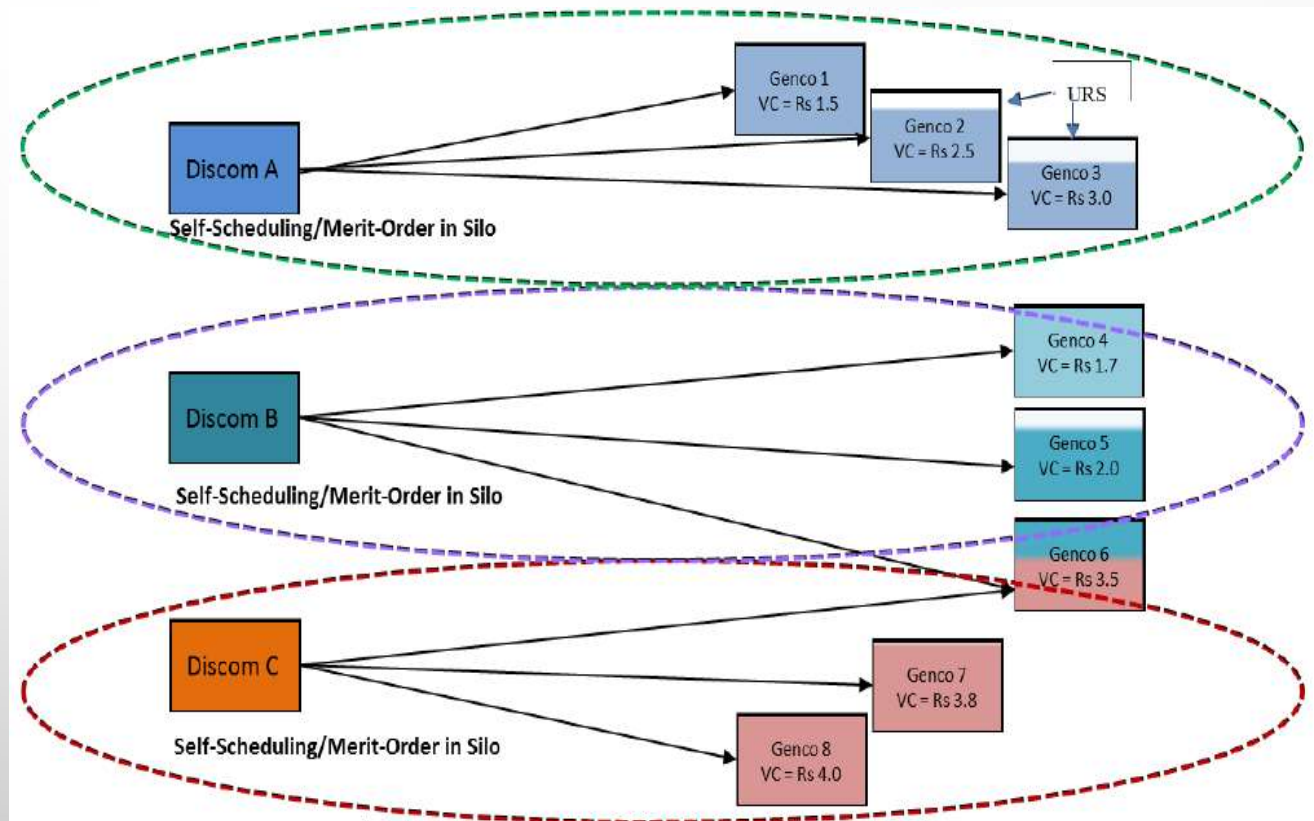


# Outline of Presentation

- **Issues in the existing Day ahead Scheduling--DAM**
- **Proposed Framework – Market Based Economic Dispatch on a Day Ahead basis**
- **Steps involved in the MBED mechanism**
- **Typical Market Clearing Mechanism**
- **Improved optimization on transiting from SCED to MBED**
- **Major Changes on Implementation of MBED**
- **Key issues and Suggested Measures in MBED**
- **Way forward**

# Key issues of the existing mechanism of self-scheduling

- At present, under **self scheduling mechanism** Discoms prepare their Schedule from the portfolio of their contracts with the Gencos.
- In this process, Several **Low cost generation capacities are partially utilized**, Since ,the Discoms do not have the visibility of other cheaper options nor they have Right to requisition /Schedule power from the Gencos with which they don't have the contract
- Discoms are not mandated **to declare the cost of their schedule generation** or Variable cost.



# Proposed Framework – Market Based Economic Dispatch on a Day Ahead basis

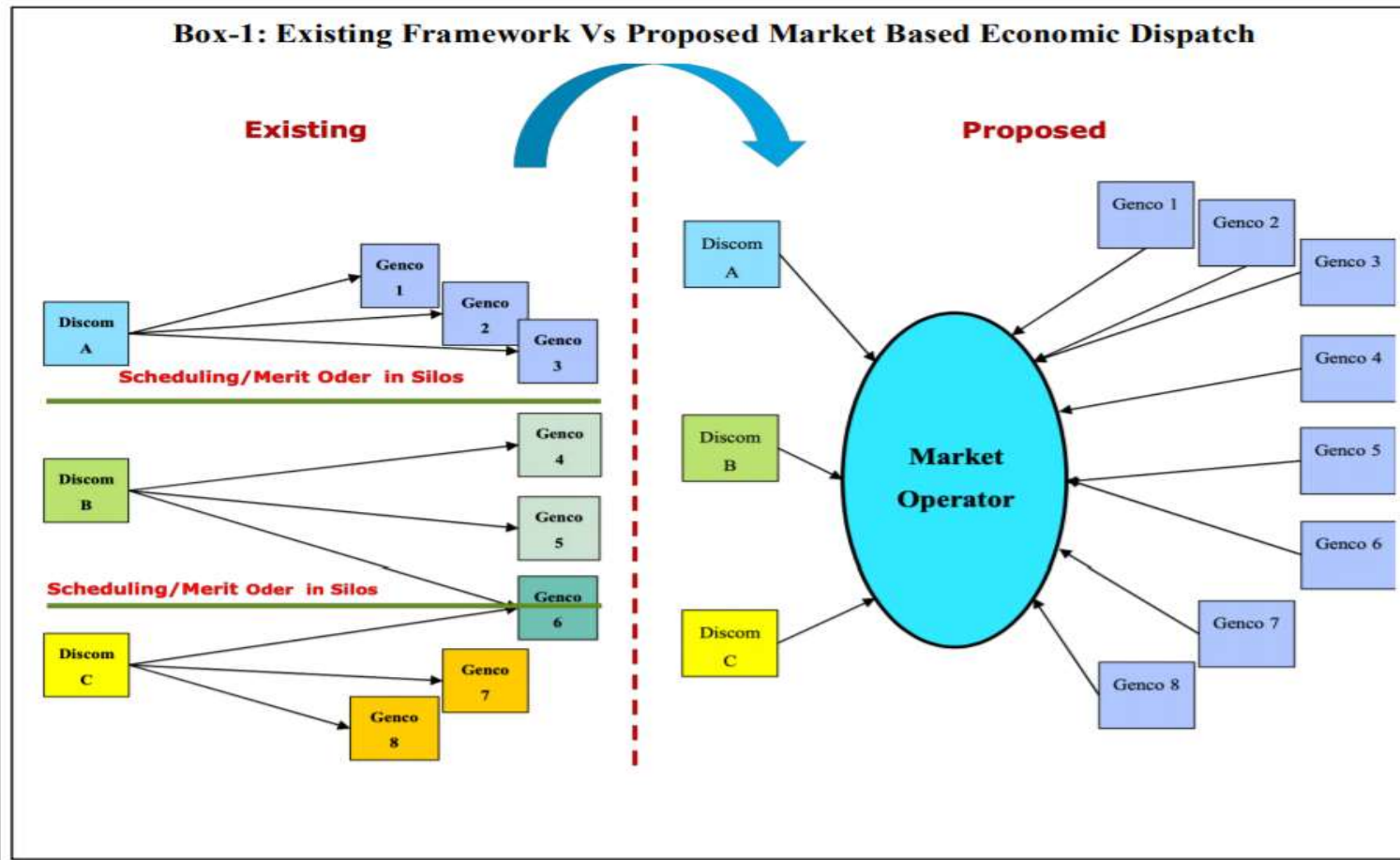
The [Ministry of Power](#) (MoP) has issued a discussion paper on market-based economic dispatch (MBED) vide order no.23/162020/-R&R dated 01st june,2021

## Objective of MBED :

The proposed framework known as MBED model is working on a day-ahead basis. The schedule and t dispatch of the generation is purely on economic principles subject to the technical constraints.

- Meeting the system load with the least cost and efficient generation plants.
- Uniform pricing frame work to encourage efficient generation capacity addition in the future.
- Facilitate increased RE integration through larger balancing area and reserve sharing.





Unlike in the existing framework where the discoms requisition power specifically from their contracted generators, in the proposed MBED model the discoms would bid into the power exchange for procuring power and meeting their demand.

# Proposed MBED Model

It comprises **2 aspects**

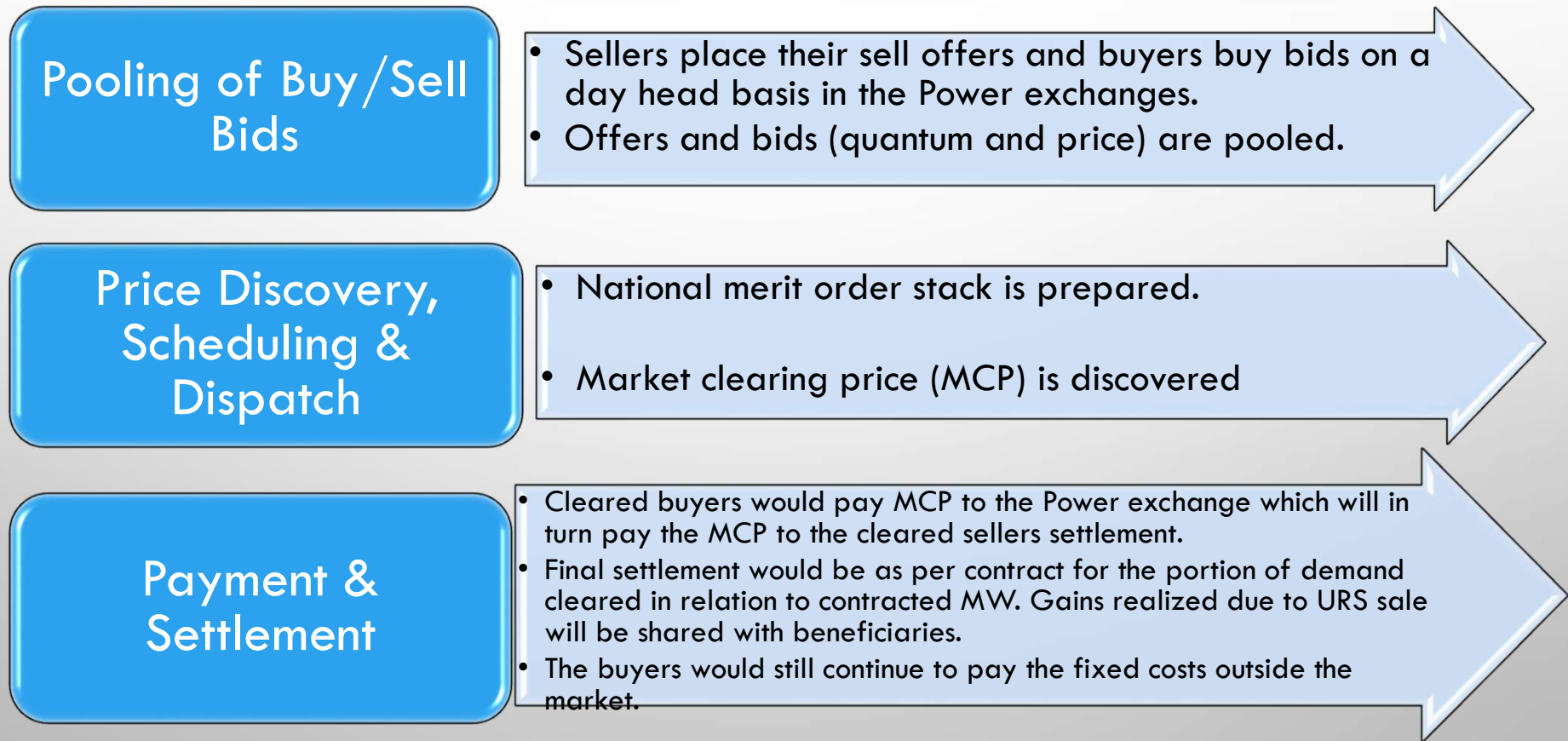


First aspect: **scheduling & dispatch**



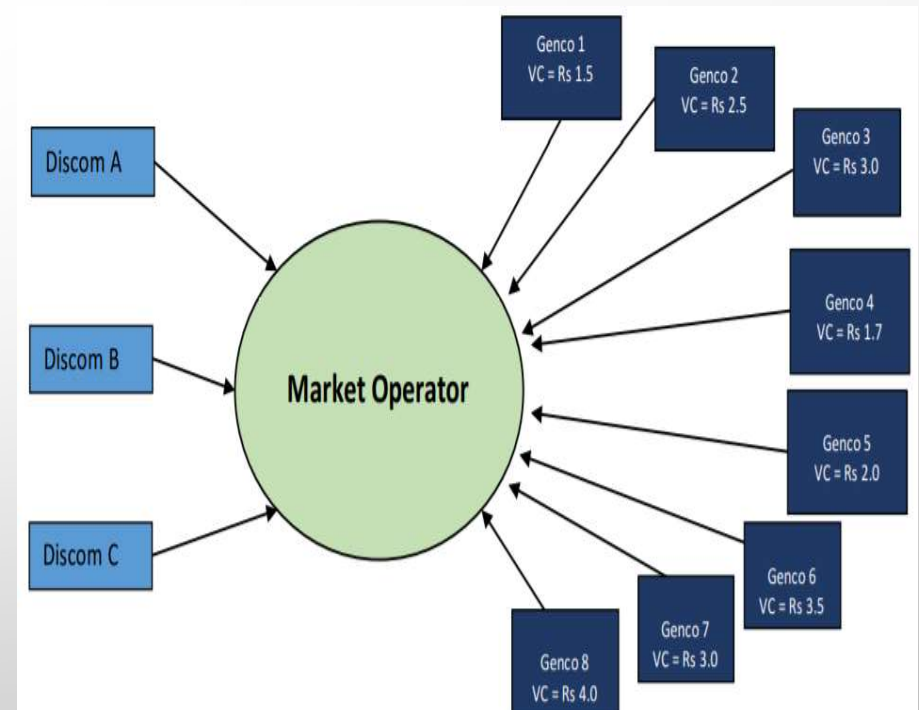
Second aspect: **Settlement of bilateral contracts (BCS)**

## Steps involved in the MBED mechanism



## First aspect of MBED: scheduling & dispatch

- The generators are expected to bid based on their variable/marginal cost of generation.
- Once the bids and offers are received, the market clearing engine will seek to optimize the dispatch of generation sources.
- The buyers will be supplied electricity as per their load and the generators will get dispatched in merit order up to the point where the total system load is met.





# Typical Market Clearing Mechanism

		Price Tick (Rs.)														
		0	1	1.1	2	2.1	2.5	3	3.1	4	4.1	5	---	---	---	20
Bid Quantum by different portfolios	Portfolio A, MW	20	20	20	20	20	20	20	10	0	0	0	0	0	0	0
	Portfolio B, MW	60	60	60	60	50	40	40	40	40	40	20	20	20	20	20
	Portfolio C, MW	40	20	0	0	-40	-60	-80	-81	-	-	-	-	-	-	-
<b>Total Buy Quantum received, MW</b>		120	100	80	80	70	60	60	50	40	40	20	20	20	20	20
<b>Total Sell Quantum received, MW</b>		0	0	0	0	-40	-60	-80	-81	-	-	-	-	-	-	-
<b>Net Transaction, MW</b>		120	100	80	80	20	0	-20	-21	-80	-100	-100	-100	-100	-100	-100

Buy bids more than MCP will get cleared and vice versa for sell bids.

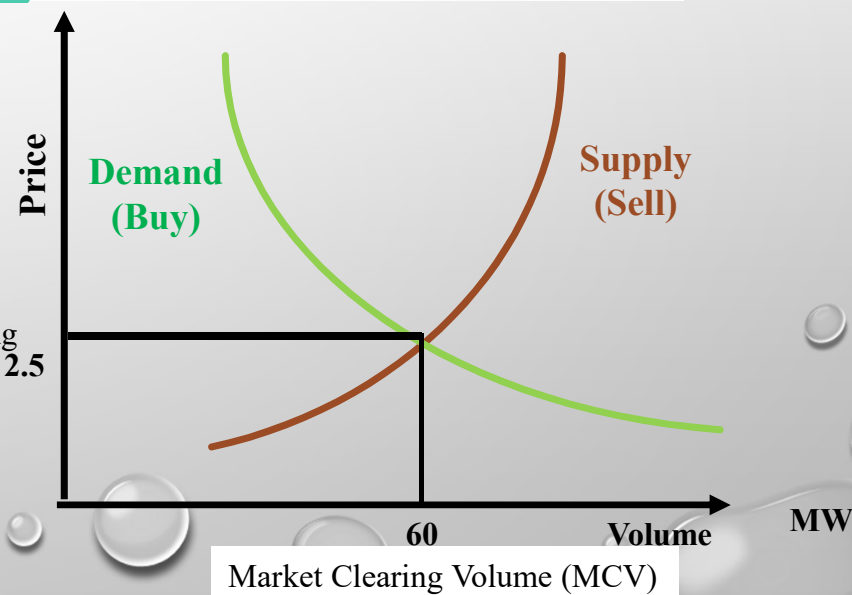
The price settlement scenario

Discom payment = Discom load \* MCP

Genco revenue = Genco total scheduled generation \* MCP

$\sum$  Discom payment =  $\sum$  Genco revenue  
(under no transmission constraint)

Market clearing price (MCP) 2.5



## Second aspect: Settlement of bilateral contracts (BCS)

- The market operator would discover the market clearing price (MCP) after the bid period closes.
- All the buyers will pay to the market operator at MCP for the day-ahead demand;
- Similarly, all the generators will be paid at the MCP according to execution of their selected bids.
- The uniform price settlement will take place for all the demand bids and the generator/sellers offers that are part of the day ahead period.

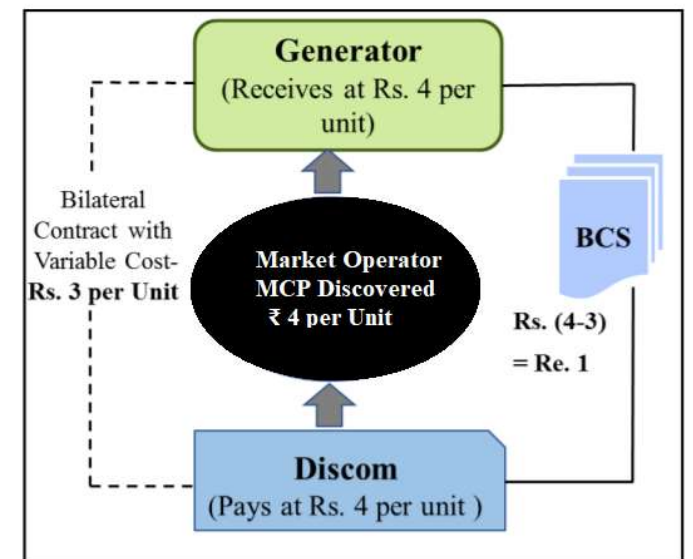
Consider a discom and a generator with a Contracted Price (VC) of Rs. 3 / kWh

If the Market Clearing Price (MCP) is Rs 4 / kWh,

- discom pays to pool/Market Operator (MO) Rs 4 / kWh
- Generator receives Rs 4/kWh from pool/MO
- Generator refunds discom 1 Re/kWh.

Discoms would be hedged against any increase in the market clearing price through BCS

For demand which is met outside of existing contracts, discoms would pay MCP.

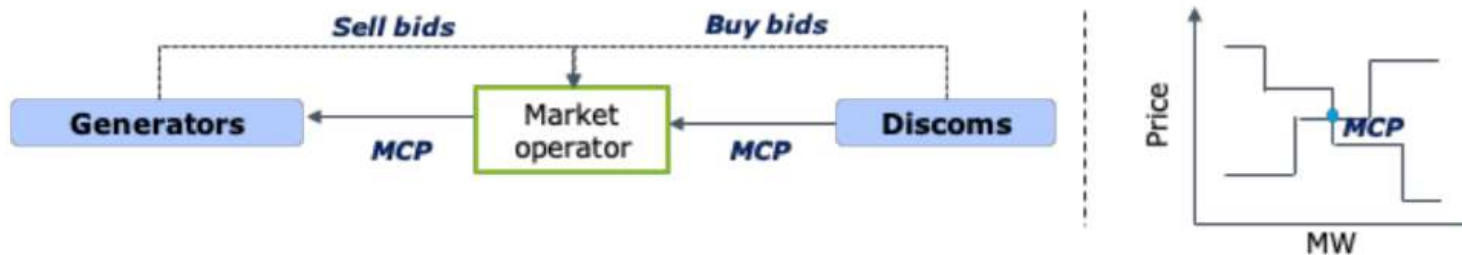


## Summary of 'Scheduling and dispatch' and 'settlement of contracts'

### Market based economic dispatch

#### Scheduling and dispatch

- All generation plants (State, Central, IPPs) would declare their availability on a **day ahead basis** and all discoms would declares their day-ahead requirement
- Gencos and Discoms will submit **bids for quantum of power to be sold / procured**
- **Market Clearing Price (MCP) – uniform price based system marginal cost** - would be discovered for each time block



#### Settlement of Bilateral contract (BCS)

- **Existing contracts** with gencos would continue to be honoured
- **Discoms** would continue to pay **fixed costs** to contracted generators **outside of market**
- Discoms would pay **Market Clearing Price (MCP) / Area Clearing Price (ACP)** for cost of power procured
- For portion of demand met through existing contracts, generators would **refund difference in MCP and variable costs to discoms**

## Improved optimization possible on transiting from SCED to MBED

- SCED optimizes the production cost of electricity from primarily ISGS stations (other IPPs) after final schedules are prepared and post gate-closure in the real time market (RTM) which was Implemented by POSOCO w.e.f April, 2019
- In SCED ,optimization means **Re-arranging the dispatch of scheduled generators in a merit order, such that the generators with lower operating cost are booked to the full before generators with higher operating costs are dispatched**, subject to technical constraints.
- The scope of SCED covers system cost optimisation only after final schedules are prepared and **units are committed**. However, in MBED the optimization is happens inherently with out any Unit Commitment.

Generators (with variable cost)	DC (MW)	Schedule as per self-scheduling mechanism (MW)	Revised schedules as per SCED (MW)	Revised schedules as per MBED (MW)
Gen 1 @ Rs 1 / kWh	25	20	25	25
Gen 2 @ Rs 2 / kWh	25	20	25	25
Gen 3 @ Rs 3 / kWh	25	15	10	20
Gen 4 @ Rs 4 / kWh	25	15	10	-
<b>Total system cost (Rs)</b>		$20 \times 1 + 20 \times 2 + 20 \times 3 + 20 \times 4 =$ Rs 200	$25 \times 1 + 25 \times 2 + 10 \times 3 + 10 \times 4 =$ Rs 145	$25 \times 1 + 25 \times 2 + 20 \times 3 + 0 \times 4 =$ Rs 135

### Illustration:

- Consider a total demand to be met of 70 MW across four states, each state is tied up with one generator.
- All the generators have a declared capacity of 25 MW and technical minimum of 10 MW (say)



# Major Changes in Scheduling mechanism

## Existing mechanism

- The Discoms self-schedule the NTPC generators based on their entitlements and access the power exchanges for the balance of their energy requirements.
- NTPC generators are scheduled by Discoms /LDCs based on their declared capabilities and States' requirements.
- Discoms do not have visibility of cheaper options outside the states and hence several low-cost generation capacities remain partially or sub-optimally utilized.

## Changes due to MBED implementation

- Both Discoms and the Generators have to mandatorily participate in the day-ahead market segment of power exchanges for bidding. Bilateral contract settlement would be carried out taking into account the quantum of power which is self-scheduled .
- Generators shall submit offers and shall be cleared based on the total demand bid into the day-ahead market once the bids and offers are received, the market clearing engine will seek to optimize the dispatch of generation sources taking technical constraints into account.
- Cheaper NTPC plants shall be dispatched to the maximum extent whereas costlier plants will run optimally as required.

# Actions by buyers, sellers & power exchange

## Existing mechanism

- Generators declare their capabilities for next day to RLDCs which then communicates entitlements to SLDCs
- Based on the entitlement, SLDC communicate the drawl Schedule to RLDCs for their contracted generators.
- SLDCs reviews their requirements and communicates drawl schedule to RLDCs. RLDCs compute the corresponding dispatch schedule for the generators.
- After final schedule is prepared & post gate closure of RTM market, the SCED algorithm will run to Optimizes the production cost of electricity to some extant for ISGS station.

## In proposed MBED model

- Generators shall be required to offer their capacities in the DAM based on self-determined ECR with no adjustments for retrospective revisions in fuel and other charges.
- National merit order shall be formed and all generators would be subsequently dispatched.
- Discoms / buyers shall be required to submit bids for all the time-blocks of the upcoming day. Discoms may choose to submit 'fixed demand' in each block, which is price inelastic and "has to be served". Further, flexible demand by the Discom, over and above the 'fixed demand' in each block will be price sensitive.
- Buyers and sellers, based on their mutual preference, shall submit bids and offers on a particular power exchange.
- Once the bids and offers are received, the market clearing engine of the power exchanges will schedule the generating stations following optimal despatch principles. Market clearing prices shall be discovered for each 15 min time block of the upcoming day.

# Schedule revisions

## Existing mechanism

- Both the generator and the Discom can revise their schedule 7/8 time blocks prior to delivery without any financial liability.

## In proposed MBED model

- Right to revision (RTR) for the complete fleet of NTPC plants shall cease to exist for the period until the results of DAM are announced, and such RTR will be reinstated for those plants in respect of the quantum not cleared in the DAM.
- Further, if there is any need for beneficiaries to Buy / Sell additional power closer to real-time, they can participate in the real time market (RTM) and correct their day-ahead positions suitably.

# Payment and settlement

## Existing mechanism

- Discoms pay the variable charges to scheduled generators based on the quantum of energy scheduled.
- NTPC generators who have a long term contract are paid the fixed cost separately outside the market.
- URS power of NTPC Generators can be availed by a Discom which is the same beneficiary of the generator. The fixed cost liability to the extent of URS scheduled by such beneficiaries would rest with them and not on original beneficiaries.

## In proposed MBED model

- Discoms / buyers will pay to the market operator at MCP for the day-ahead demand. Similarly, all the generators will be paid at the MCP according to execution of their selected bids.
- Buyers, under LT contracts, will be refunded the difference between the market clearing price and the contracted price as per the quantum of power self-scheduled through the bilateral contract settlement (BCS)
- NTPC generators who have a long-term contract will continue to be paid the fixed cost separately outside the market .
- NTPC generators can sell the URS power in the market. Net revenue earned by NTPC generators by selling their URS power will be shared with concerned beneficiaries in the ratio of 50:50 subject to a ceiling of 7p/kwh to the generator and balance to the concerned beneficiary.

# Key issues and Suggested Measures

- **Working capital management for Discoms**

Ministry has proposed that to ensure that Discoms are not burdened with such huge upfront payments, a centrally designated agency such as the power finance corporation or REC could provide a line of credit to DISCOMS who require such working capital. The DISCOM could repay such amount along with interest within 45-60 days from the date of disbursement of each tranche.

- **Additional rebate relief for Discoms**

As per the existing mechanism, a 1.5% rebate is provided to the Discoms, if the payment is made to the generating companies within five days from the invoice date and a 1% rebate if the payment is made within 30 days from the invoice date.

It has been proposed that **a total rebate of 2% could be offered to Discoms** on the payment for the volume of power procured through the exchange.

- **Need for price coupling**

Ministry has suggested that the buyers and corresponding sellers, based on their mutual preference, need to submit bids and offers on the particular power exchange. This would ensure that both the parties are subject to the same clearing price and liquidity.

# Implementation of MBED

- ✓ Recognizing the significant changes in operating environment for both Generators and Discoms under MBED, a phased approach has been recommended to implement MBED;
- ✓ Accordingly, implementation of MBED shall start with [the fleet of NTPC thermal stations \(phase -I\) from 1 April 2022;](#)
- ✓ This will help the participants, System operators, Power exchanges and regulators, gain experience from the process and keep disruptions at minimum, while also limiting the commercial exposure of Discoms.

# Way forward

S No.	Activity	Timeline
1.	Receiving comments from stakeholders on the Discussion paper by MoP	May 2021
2.	Analysing stakeholder comments	May 2021
3.	National level workshop on MBED: <ul style="list-style-type: none"> <li>• Overview and proposed mechanism for phase 1 of implementation</li> <li>• Discussion on key challenges perceived by stakeholders</li> <li>• Devising mitigation mechanism and obtaining suggestions</li> </ul>	June 2021
4.	Preparing draft regulations, stakeholder consultations and final regulations by CERC	September 2021
5.	<ul style="list-style-type: none"> <li>• Formulation of procedures by POSOCO</li> <li>• Operational changes to be effected by Power exchanges</li> <li>• Addressing key issues in implementation</li> </ul>	March 2022
6.	Conduct of mock exercise	March 2022
7.	Go-LIVE of phase 1 of MBED	1 <sup>st</sup> April 2022

THANK YOU !!