

EASTERN REGIONAL POWER COMMITTEE

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AGENDA FOR 50th COMMERCIAL SUB-COMMITTEE MEETING OF ERPC TO BE HELD ON 08.01.2024 (MONDAY)

AT 10:30 HRS THROUGH MICROSOFT TEAMS ONLINE PLATFORM.

ITEM NO. A1: Confirmation of the minutes of the 49th Commercial Sub-Committee meeting held on 28.07.2023.

The minutes of the 49th Commercial Sub-Committee meeting was uploaded on ERPC website.

Members may confirm the minutes of the 49th Commercial Sub-Committee Meeting.

PART B: ITEMS FOR DISCUSSION

ITEM NO. B.1: Erroneous Meter Recording of MVAR_Low for 400kV RTPS-Ranchi PG Ckt#3 - Agenda of DVC.

Background:

Earlier the Metering of 400kV RTPS – Ranchi PG Ckt # 2 & and 3 was being carried out with the meter data of Ranchi PG end for the purpose of Deviation Settlement and Reactive Energy Accounting. However, as per the decision taken in the 206th OCC Meeting of ERPC, the energy accounting of these Ckts has been carried out with the RTPS end meter since 04th September 2023.

Issue:

Since 04-09-2023 onwards, it has been observed that DVC has been penalized for each week on account of MVAR_Low recording by RTPS end meter of 400kV RTPS-Ranchi PG Ckt#3. Whereas its parallel Ckt i.e. 400kV RTPS-Ranchi PG CKt#2 has recorded MVARh_High on each week. From SCADA data also, it was verified that the RTPS end Bus voltage has never touched 388 kV, in fact not fallen below 400kV.

Upon investigation by the Metering Cell, it was learnt that there was some issue in PT circuitry and the same was attended and rectified on 06-10-2023. The Confirmation mail of the Metering Cell on rectification of the issue has been attached herewith. It has been observed that from 09-10-2023 onwards such erroneous MVAR_Low record has not been reflected in the Reactive Energy Account Statements.

Request:

The MVAR_Low recording of 400kV RTPS-Ranchi PG Ckt#3 in the Reactive Energy Statements issued from 04-09-2023 to 08-10-2023 thus appears to be erroneous and the same can be verified from SCADA data also (The SCADA data from 04-09-2023 to 10-09-2023 is attached at **Annexure B.1**).

Therefore, it is requested to disregard the MVAR_Low recording of the said Ckt for the period 04-09-2023 to 08-10-2023 and accordingly revise the Reactive Energy Account Statement i.r.o. DVC.

DVC may explain. CCM may discuss.

ITEM NO. B.2: Agenda by Powergrid ER-II.

- B.2.1. Proposal for procurement of Spare ICT (Both 500 MVA & 315 MVA) for Eastern Region.
- As per CEA- Spare Norms (July 2020) for maintaining spares, each Region must maintain One Each number single/3-Ph units of each rating for ISTS system. POWERGRID has been maintaining the spares as per norms. However, as per recent developments and changed scenario it is very important to maintain spares to meet any contingent situations for other constituents.
- 2. As such making entire fleet of operation of Transformers more reliable, adequate number of spares are to be maintained as Regional Pool to be decided. In recent past, few spare Transformers are utilized in Non-ISTS system, making the regional Pool NIL.
- 3. In view of above the followings are proposed:
 - a) New 400/220/33KV, 500MVA ICT to be procured to be located at POWERGRID Maithon (Existing Regional Spare 500MVA to be used as ICT-VII and to be kept at POWERGRID Subhashgram).
 - b) New 400/220/33KV, 315MVA ICT to be procured to be located at POWERGRID Binaguri SS.

| STATE | VOLTAGE | SIZE | STORAGE PLACE |
|--------|---------------|---------|---------------|
| WEST | 400/220/33 KV | 500 MVA | MAITHON |
| BENGAL | | 315 MVA | BINAGURI |

4. Considering the above, tentative commercial implications considering varied size Transformers with foundation are deliberated below:

| EQUIPMENT | PER UNIT PRICE (18% | TOTAL QTY | TOTAL PRICE |
|-----------------------|---------------------|-----------|-------------|
| | GST INCL.) | | |
| 400/220/33KV, 500 MVA | 279067108 | 1 | 279067108 |
| 400/220/33KV, 315 MVA | 225358826 | 1 | 225358826 |

However, on in principle approval, final commercial implications shall be put up in forthcoming CCM.

In the 208th OCC Meeting, WBSETCL representative submitted as the ICT proposed to take from Power Grid on temporary basis from Malda for Jeerat 400 kV sub-station (WBSETCL) is

expected to return within 6 months of installation, hence even as per CEA - spare norms (July 2020) the requirement of buying new 315 MVA ICT is not justified because the transformer will be returned much before the delivery of the new transformer, also the 500 MVA ICT maintained as cold spare at Maithon, proposed to be commissioned at Subhashgram (PG) substation by Power Grid as interim measure may not be taken as permanent rather may be returned to Powergrid after commissioning of 6th ICT at Subhashgram under CESC head or even after observing the loading pattern in Summer 2024.He further asserted that every capital expenditure having direct impact on consumer tariff should be deployed judiciously rather by creating "spare of spares". Powergrid representative submitted that transformer procurement being a lengthy and tedious process, it is always better to replenish the spare ICTs in regional pool thereby ensuring better operational flexibility in ER grid.

OCC advised Powergrid to proceed with replenishment process till the spares from Jeerat S/S and Subhashgram S/S get returned to regional pool. OCC also opined that every utility including Odisha, West Bengal, Jharkhand must maintain spare ICT as per CEA norms. WBSETCL representative consenting to view of OCC, apprised that presently board approval for procuring spare ICT is under process. DVC representative submitted that only 6 out of 10 ICTs being presently in service, adequate spare is available at their end.

In reference to above, spare ICT (Both 315 MVA & 500 MVA) has already been approved technically. Details financial implication will vary depending on time of procurement as all component costs are highly variable in nature.

As such, in line with earlier approval it is proposed to concur in-principal approval of 02 No's ICT as proposed in 208th OCC for further concurrence in forthcoming TCC/ERPC: -

CCM may approve.

B.2.2. Installation of Transmission Line Arrestor in 220 KV Lines in North Bengal.

Based on 48th CCM & 49th ERPC Meeting approval, earlier approved value for Installation of Transmission Line Arrestor in 220kV Lines in North Bengal was noted as Rs 6.5 Cr. The entire work is already completed and accordingly, the actual expenditure incurred for the said work comes to Rs. 7.16 Crores which may please be ratified by members of CCM please.

CCM may approve.

B.2.3. Cost recovery against AMR expenditure/SEM related costs in ER-II from 01.03.2019 to 15.07.2023 for various phases of implementation and associated activities pertaining to Software/Hardware refreshment and upgradation of AMR-Revised Cost Expenditure recovery-AMR.

As per minutes of 49th ERPC, approved value of AMR expenditure was provided as Rs. 6,01,20,823/-. However, after actual booking and also after including GST/Consultancy charges the revised value comes to Rs. 7,87,31,547- (Rs. Seven Crore eighty-seven lacs thirty-one thousand five hundred forty-seven only).

| Bifurcati | on given below for ratification: - | |
|--|--|-------------|
| Project | LOA#/ SAP PO | Total |
| AMR Phase1&2 | ER-II/KOL/C&N/I-582/P-747/870/3676 Dated: 06- Nov-2012 /ER-II/KOL/C&N/P-747/AMEND- IV/748/2425 Dated: 02-Sep-2014 (SAP PO-9000007968 & 5200022239) | 21,77,392 |
| AMR Phase-3 | ER-II/KOL/CS/I-1358/P-1398 Dated: 27-Oct-2016 ER-II/KOL/CS/I-1358/P-1398/AMEND-III/442 Dated: 10-Jul-2018 (SAP PO- 5100014415) | 39,87,747 |
| AMR Phase-4 | ER-II/KOL/CS/I-2446/P-2420/1929 Dated: 20-Jul- 2020 ER-II/KOL/CS/I-2446/P-2420/AMEND- II/4374 Dated: 05-Jul-2021/ER-II/KOL/CS/I-2446/P- 2420/AMEND-III/6493 Dated: 07-Jun-2022 (SAP PO- 5100032889) | 1,30,19,265 |
| AMR Phase- 1&2 AMC renewal | ER_II/KOI /(S/I_7/74/P_7/07/4785 Dated: (7/1110- | 2,56,33,881 |
| AMR LAN Integration work | ER-II/KOL/CS/I-3499/P-3414/6841 dated 01.09.2022 (SAP PO- 5100043386) | 27,40,552 |
| AMR Phase-3 AMC renewal for 249 SEM | | 27,21,270 |
| AMR data center hardware and software application refreshment | ER-II/KOL/CS/I-3370/P-3289/6577 Date: 24.06.2022 (SAP PO- 5100041788) | 1,58,12,000 |
| Transportation of Smart Meter to Binaguri | | - |
| Mobile data for AMR | SAP PO - 5200033984 | 1,44,997 |
| Mobile data for AMR | SAP PO - 5200037273 | 1,91,054 |
| for AMR | SAP PO - 5200054713 | 2,57,832 |
| Mobile data for AMR | SAP PO - 5200054715 | 2,05,724 |
| | Total | 6,68,91,714 |
| | Consultancy Fees @ 15% | 1,00,33,757 |
| | GST on Consultancy Fees @ 18% | 18,06,076 |
| | Grand Total | 7,87,31,547 |

CCM may approve.

B.2.4. Proposal for procurement of Reactor spares (cold spares) for Eastern Region – Powergrid ER-II.

| STATE | VOLTAGE LEVEL | CAPACITY | IN SERVICE (In No) | Number of Spares available (In No) |
|-----------|------------------|-----------|-----------------------|------------------------------------|
| | | 125 MVAR | 13 | NIL |
| WEST | 400 KV | 80 MVAR | 07 | NIL |
| BENGAL | | 63 MVAR | 05 | NIL |
| | | 50 MVAR | 08 | 01 at Maithon |
| | | 125 MVAR | 15 | 01 at Angul |
| Odisha | 400 KV | 80 MVAR | 08 | 01 at Rourkela |
| | | 63 MVAR | 07 | NIL |
| | | 50 MVAR | 06 | 01 at Rourkela |
| SIKKIM | 400 KV | 80 MVAR | 02 | NIL |
| | 220 KV | 31.5 MVAR | 02 | NIL |
| | | 125 MVAR | 16 | NIL |
| BIHAR | 400 KV | 80 MVAR | 12 | NIL |
| | | 63 MVAR | 11 | NIL |
| | | 50 MVAR | 10 | 01 at Biharsharif |
| | | 125 MVAR | 8 | NIL |
| JHARKHAND | 400 KV | 80 MVAR | 3 | NIL |
| | | 63 MVAR | 2 | 01 at Daltonganj |
| | | 50 MVAR | 8 | 01 at Jamshedpur |

In Eastern Region-II following Reactors are in service at present as POWERGRID asset:

However, apart from 400 KV, 50 MVAR Reactor at Maithon SS, no other spare Reactor are available till date. As per CEA spare norms (circulated in July-2020, refer page-18/19), for maintaining spares under GST regime, each state should be provisioned with respective sized Reactor. Accordingly, as per available sizing following Reactors are required at following locations: -

| STATE | VOLTAGE | SIZE | STORAGE PLACE |
|-------------|---------|-----------|----------------|
| | | 125 MVAR | DURGAPUR SS |
| WEST BENGAL | 400 KV | 80 MVAR | BINAGURI SS |
| | | 63 MVAR | BINAGURI SS |
| SIKKIM | 400 KV | 80 MVAR | RANGPO SS |
| | 220 KV | 31.5 MVAR | NEW MELLI SS |
| | | 125 MVAR | BIHARSARIFF SS |
| BIHAR | 400 KV | 80 MVAR | PATNA SS |
| | | 63 MVAR | MUZAFFARPUR SS |
| JHARKHAND | 400 KV | 125 MVAR | NEW RANCHI SS |
| | | 80 MVAR | RANCHI SS |
| ODISHA | 400 KV | 63 MVAR | ROURKELA SS |

All above Reactors will be kept as regional spare and based upon urgency the same shall be utilised in ISTS system and as per CEA spare norms in state level.

Members may discuss and approve the technical requirements for further submission of cost data to subsequent meetings.

As per decision taken vide agenda point-B11 of 202nd OCC, forum agreed of the proposal for procurement of spare Reactor in ER as per CEA guideline. Further in minutes it is stated to update the detail cost implications in 49th CCM meeting, for deliberations.

Accordingly, details work out for tentative cost implications done and total value comes as, Rs. 111,52,97,192/- (RS. ONE HUNDRED AND ELEVEN CRORES FIFTY-TWO LACS NINETY-SEVEN THOUSAND ONE HUNDRED NINETY-TWO ONLY). Details cost break up given for reference purpose.

In the 49th CCM Meeting, West Bengal representative informed that the cost of keeping spare reactor for eastern Region is very high and procurement plan should be implemented in phase wise, so that financial burden on beneficiaries should be less. After detailed deliberation, CCM opined that the required number of spare reactors may be again deliberated in the OCC.

CCM may discuss.

B.2.5. Approval for re-conductoring in 220kV Lines (more than 35 years in service) commissioned under CTS.

The transmission network build under CTS scheme was commissioned in mid of 1980's. List of lines are tabulated below: -

| Sl. No. | Name of TL | Total Length of Line (in KM) | Route Length of Line(in KM) under POWERGRID | Name of conductor | Year of commissio ning | Remarks |
|------------|--------------------------------------|---------------------------------------|--|-------------------|------------------------------|---------|
| 1 | 220kV D/C Birpara- Chukha TL | 70 | 36 | Zebra | 1986 | |
| 2 | 220kV D/C Birpara- Alipurduar TL | 57.5 | 57.5 | Zebra | 1987 | |
| 3 | 220kV D/C Siliguri- Kishanganj TL | 108.26 | 108.26 | Zebra | 1986 | |
| 4 | 220kV D/C Dalkhola- Kishangnaj TL | 30.96 | 30.96 | Zebra | 1986 | |
| 5 | 220kV D/C Malda- Gazole TL | 18.41 | 16.49 | Zebra | 1986 | |
| 6 | 220kV D/C Dalkhola- Gazole TL | 99.24 | 97.52 | Zebra | 1986 | |
| 7 | 220kV D/C Birpara- Binaguri TL | 80 | 80 | Zebra | 1986 | |

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| 8 | 220kV D/C Siliguri- Binaguri TL | 6 | 6 | Zebra | 1986 | |
|----|--|-----|--------|-------|------|--|
| 9 | 220kV S/C Birpara- Malbase TL | 41 | 38 | Zebra | 1988 | |
| | Total | | 470.73 | | | |
| 10 | 220kV D/C Alipurduar-Salakati TL | 101 | 101 | Zebra | 1987 | Re-conductoring work is in progress under NERSS-XII |

In most of the above-mentioned lines, the conductor damage from VD, MSCJ and repair sleeve, jumper, dead ends etc. have been noticed at several places. The damage might be occurring due to ageing of the conductors & earth-wire due to natural wear & tear. Also, conductor and earth wire getting snapped during seasonal temperature changes. Some snaps of sections of lines where breakage has been reported are enclosed.

The line tripping due to conductor & earth-wire snapping is gradually increasing. (2 Nos. conductor snapping incident occurred in 220kV Birpara-Binaguri Ckt-2 in the month of October-23 itself) In addition to the line outages which is severely deteriorating the transmission availability, it creates potential risk of any severe accident/hazard in the nearby area due to snapping of Conductor/Earth-wire. Further, any incident of conductor/earth-wire snapping at major crossings (Railway, NH X-ings) may lead to undesired safety hazard as well as damage to public/national property. List of tripping in said lines due to conductor & earth-wire breakage is enclosed.

All the above-mentioned lines are more than 35 years in service so have completed useful life as per CERC regulation. Considering the increase in conductor & earth-wire snapping incidents, the issue was taken up during 209th OCC Meeting. Upon detail discussion during the 209th OCC Meeting, OCC forum advised POWERGRID to submit a detailed survey report along with health assessment report of conductor installed in old 220kV Lines commissioned under CTS. Accordingly, vide mail dated 12.12.2023, Powergrid ER-II has shared detail test report of old 220kV Line conductor carried out by NSIC Howrah along with detail survey report. From the test report, it can be observed that the conductor sample has failed in mostly all technical parameters as tabulated below: -

| S1 No. | Tests performed | Observation/Findings | Remarks |
|-----------|---|--|----------------|
| 1 | Freedom from defects (Visual Inspection) | Conductor found blackened & surface not smooth | Condition Poor |
| 2 | Surface Condition Test | Upon applying 50% of UTS Load, the diameter of the conductor measured at 4 places are more than the sum of minm. Specified diameter of the individual Al & Steel strands | Failed |
| 3 | Ultimate Breaking Load (Whole conductor & individual Aluminium Strands also) | Conductor strength found (114.25kN) way below the minm. UTS requirement of 130.32kN | Failed |
| 4 | DC Resistance test | A verage value of resistance observed (0.12846 ohm/KM) is way above the Max. allowable DC resistance (0.06868 ohm/KM) of conductor as per TS. | Failed |

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During 210th OCC Meeting, OCC forum technically agreed to the above proposal.

In view of above, it is proposed to consider the re-conductoring & earth-wire replacement of 220kV Lines commissioned under CTS under the ADDCAP 2024-2029 tariff block of Chukha Transmission System. A tentative cost for carrying out the re-conductoring work with HTLS conductor & Earth-wire replacement in above mentioned 9(Nine) lines 470.73 KM route length is approx. Rs. 281 Crores.

CCM may discuss.

ITEM NO. B.3: AMR Phase-5 implementation in Eastern Region: Powergrid

In Eastern Region, there have been 4 AMR Phases package awarded previously. All the AMR Phases are in AMC support now. In the AMR Phase-4 implementation period, Data Centre Hardware Software refreshment also being completed.

At present in ER, few Meters/Stations are yet to be integrated with AMR system. Most of them are new stations or new Feeders. As per mail received from ERLDC dated 29th Sep 2023, a list is shared for such meters which required to be integrated in existing AMR server. As per SEM details shared by ERLDC, total 320 no of Meters has to be integrated with the AMR. Out of which, 242 Meters are already present in Sub Stations, and another 78 Meters has been kept for upcoming/future New Sub Stations or Feeders.

In view of above, for integration of subject SEMs at AMR, a separate LOA/Award to be placed to carry out the job (Phase-5). In line with the requirement, the same has been shared with TCS, for estimation purpose. Considering the requirement received from ERLDC, total 65 DCU Hardware has been estimated. (50 for the already present Meters, and 15 kept as future for upcoming stations). Additionally, other hardware like Cables, PVC Pipe, Fiber Optical cable etc. have been provisioned as per the estimation.

One Rack Server with Windows Operating System and One 24 ports Network Switch have been considered in this program. These items will be installed at ERLDC Data Centre. These will be working as a redundant backup system and Data Repository for entire AMR. As the number of Meters getting increased, redundant data repository is a must for proper system operation.

| M1 (Dec-23) M6 (May- | M7 (Jun-24) M18 | M19 (Jun-25) M28 |
|--|----------------------------|-------------------------------------|
| 24) | (May-25) | (Mar-26) |
| 06 months, For Supply & implementation | 12 months Warranty Support | 10 months comprehensive AMC Support |

Project timeline has been considered as below (28 Months)

The timeline has been considered expecting that, LOA will be awarded, and work will get started in Dec-2023 1st week. The actual timeline will be set as per the actual date of LOA placement.

The end date of AMC support is considered (will be kept) till 31-Mar-2026. As all the other AMR Phases, AMC is getting ended on the same date i.e. 31-Mar-2026, for making Phase-5 also a

concurrent one, with other ongoing packages. From Apr-26 onwards, one single package will be placed for AMC of all the Meters.

The new AMR system will be installed at those stations only, where the OPGW Fiber and LAN Setup is available. There will be no GPRS based data communication, which will be considered in AMR implementation as per CEA/CERC Cyber Security Guideline. It has been assumed that all the locations considered here for AMR integration has active LAN port. If any location is not having LAN connectivity or OPGW work is ongoing, the same will be discussed in upcoming meetings such that same will be available during AMR installation.

Considering all the above, M/S TCS has given their commercial offer which has total value of INR 2,60,72,054.00 /- (Rs. Two crore sixty lacs seventy-two thousand and fifty-four only) without Taxes. (Annexure- B.26)

Like all previous LOAs of AMR, it is requested to give in principle approval for placing the order to M/S TCS on a single tender / nomination. Based on OCC approval, POWERGRID shall carry out necessary processing for further placement of LOA after carrying out necessary negotiation with M/S. TCS. Negotiated final value shall be placed in forthcoming CCM for further deliberation & approval.

In 208th OCC meeting, Powergrid representative submitted that in phase-5 of AMR integration, 240 meters out of 320 meters to be integrated, are presently installed in the substations and rest 80 meters are kept as provision for upcoming substations. He also apprised that meters to be AMR integrated in phase-5 will be equipped with DCU, backup data centre as new addition and robust LAN connectivity. He further added that meters will be installed in only those substations equipped with OPGW connectivity and LAN setup. In this regard, it was informed to the forum that commercial offer has been received for AMR phase-5 implementation from M/S TCS on single tender basis and presently negotiation is under process.

OCC gave in principle approval for the AMR phase-5 implementation and advised Powergrid to expedite negotiation process with M/S TCS and place the same in upcoming Commercial Subcommittee meeting for relevant discussion.

In the 208th OCC meeting, Powergrid representative submitted that in phase-5 of AMR integration, 240 meters out of 320 meters to be integrated, are presently installed in the substations and rest 80 meters are kept as provision for upcoming substations. He also apprised that meters to be AMR integrated in phase-5 will be equipped with DCU, backup data centre as new addition and robust LAN connectivity. He further added that meters will be installed in only those substations equipped with OPGW connectivity and LAN setup. In this regard, it was informed to the forum that commercial offer has been received for AMR phase-5 implementation from M/S TCS on single tender basis and presently negotiation is under process.

OCC gave in principle approval for the AMR phase-5 implementation and advised Powergrid to expedite negotiation process with M/S TCS and place the same in upcoming Commercial Subcommittee meeting for relevant discussion."

Powergrid ER-II may update. Members may approve.

ITEM NO. B.4: Long Outage of reactor at Jeerat S/s imposing high VAR charges on all DISCOMs of West Bengal – WBSETCL.

The 50 MVAR Reactor 2 in Jeerat (WBSETCL) 400 KV sub-stn owned and maintained by PG since beginning. This reactor is out of service from 23.04.23 due to high winding temperature. In absence of this reactor, voltage of Jeerat (WBSETCL) point was crossing 417 KV during winter off peak hours and WBSETCL is paying even up to the extent of 1.25 Lakhs per week as MVAR charges for the Jeerat point only.

As for some technical issues developed, the said reactor was taken out of bus earlier and as Power Grid has failed to rectify the same before winter (in last 8 months), WBSETCL and state DISCOMs are paying the amount as MVAR charges for Jeerat point without having any fault at their part, so the Jeerat point VAR amount may please be relieved for WBSETCL, if Power grid fails to bring back the reactor in service shortly. Power Grid may please intimate the up-to-date status and the probable date of return of the reactor in service.

In 210th OCC meeting, WBSETCL representative submitted that in event of long outage of 50 MVAR reactor at Jeerat S/S, huge amount of weekly VAR charges are being imposed on WBSETCL and state DISCOMs. In this regard, he requested Powergrid ER-II to restore the 50 MVAR reactor to service at the earliest. In case of failure by Powergrid ER-II to bring the reactor to service at Jeerat S/S on time, WBSETCL appealed to OCC forum for waiving off VAR charges at the Jeerat (400 kV) point.

Powergrid ER-II representative vide mail dated 23.12.2023 apprised that the subject Reactor being aged more than 35 Years old, is subjected to many snags and based upon the information received from Jeerat site, normally time to time action is taken. After 23.04.23, the subject Reactor has been kept under Voltage Regulation causing no possibility to check the activity (Repairing done). Further when the reactor was again tried to put into operation during present winter, different problems were observed for which necessary actions are already undertaken and expected to be finished by 15.01.2024.

OCC advised Powergrid ER-II to expedite actions for restoration of 50 MVAR reactor at 400 kV Jeerat (WBSETCL) S/S and also opined that the request of WBSETCL for waiving off of VAR charges may be be taken up in the next CCM meeting for necessary deliberation.

WBSETCL representative submitted that in event of long outage of 50 MVAR reactor at Jeerat S/S, huge amount of weekly VAR charges are being imposed on WBSETCL and state DISCOMs. In this regard, he requested Powergrid ER-II to restore the 50 MVAR reactor to service at the earliest. In case of failure by Powergrid ER-II to bring the reactor to service at Jeerat S/S on time, WBSETCL appealed to OCC forum for waiving off VAR charges at the Jeerat (400 kV) point.

Powergrid ER-II representative vide mail dated 23.12.2023 apprised that the subject Reactor being aged more than 35 Years old, is subjected to many snags and based upon the information received from Jeerat site, normally time to time action is taken. After 23.04.23, the subject Reactor has been kept under Voltage Regulation causing no possibility to check the activity (Repairing done). Further when the reactor was again tried to put into operation during present winter, different problems were observed for which necessary actions are already undertaken and expected to be finished by 15.01.2024.

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OCC advised Powergrid ER-II to expedite actions for restoration of 50 MVAR reactor at 400 kV Jeerat (WBSETCL) S/S and also opined that the request of WBSETCL for waiving off of VAR charges may be be taken up in the next CCM meeting for necessary deliberation."

WBSETCL may update.

ITEM NO. B.5: Monthly Billing and Payment of ERLDC FEES AND CHARGES of Distribution Licensees, Buyers and Sellers on the basis of their GNA quantum within the State of West Bengal. – WBSETCL.

The bill for the ERLDC Fees and charges for the month of December, 2023 has been raised to The SLDC, WBSETCL vide Ref : ER/2023-24/0467 Dated: 01-01-2024 of the ERLDC.

In this regard, SLDC, WBSETCL has noted following observations:

- As per clause (c) of regulation 30 of (Fees and charges of Regional Load Despatch Centre and other related matters) Regulations 2019 of Hon'ble CERC and the order no 17/SM/2023 dated 30.11.23 of Hon'ble CERC, LDC charges distribution licensees, buyers and seller shall be calculated on the basis of their GNA quantum.
- As per the regulation 34.1 of (Fees and charges of Regional Load Despatch Centre and other related matters) Regulations 2019 of Hon'ble CERC "Bill shall be raised for LDC charges on monthly basis by Power System Operation Company in accordance with these regulations."
- Regulation 31.(8) of (Fees and charges of Regional Load Despatch Centre and other related matters) Regulations 2019 of Hon'ble CERC states that "The respective SLDC shall be the nodal agency for collection of monthly LDC charges payable to the concerned Regional Load Despatch Centre(RLDC), from the distribution licensees and other RLDC users in the State. After collecting the monthly LDC charge the concerned SLDC shall deposit the same into the account of the concerned RLDC. The RLDC users in the state shall have to option to make payment of monthly RLDC charges into the account of concerned RLDC or they may choose to pay the same through the respective SLDCs"

Now as per provisions of clause no 18.1.(e) of (Connectivity and General Network Access to the inter-state Transmission System) Regulations, 2022 SLDC, WBSLDC has segregated deemed GNA of West Bengal to Three intra-state entities namely 1) WBSEDCL 2) CESC and 3)IPCL and intimated to STU, Nodal Agency, RLDC and NLDC vide memo no: SLDC/HOW/EA-27/2022-23/659 dated 28.10.2022.

In absence of any modalities of segregation of monthly RLDC fees and charges among the Intra state GNA grantees with in the state of West Bengal, it is requested that appropriate modalities may kindly be framed for raising the bill to the Distribution Licensees/ RLDC users in the State.

WBSETCL may update. Members may discuss.

ITEM NO. B.6: ERLDC Fees and Charges Provisional PLI Bill for FY 2022-2023 along with adjustment of Approved PLI Charges for FY 2021-2022. – WBSETCL.

ERLDC Fees and Charges Provisional PLI Bill for FY 2022-2023 along with adjustment of Approved PLI Charges for FY 2021-2022 has been raised to The SLDC, WBSETCL vide Ref : ER/2022-23/0678 Dated: 22-12-2023 of the ERLDC.

In this regard, SLDC, WBSETCL has noted following observations:

- As per the regulation 34.1 of (Fees and charges of Regional Load Despatch Centre and other related matters) Regulations 2019 of Hon'ble CERC "Bill shall be raised for LDC charges on monthly basis by Power System Operation Company in accordance with these regulations."
- Regulation 31.(8) of (Fees and charges of Regional Load Despatch Centre and other related matters) Regulations 2019 of Hon'ble CERC states that "The respective SLDC shall be the nodal agency for collection of monthly LDC charges payable to the concerned Regional Load Despatch Centre(RLDC), from the distribution licensees and other RLDC users in the State. After collecting the monthly LDC charge the concerned SLDC shall deposit the same into the account of the concerned RLDC. The RLDC users in the state shall have to option to make payment of monthly RLDC charges into the account of concerned RLDC or they may choose to pay the same through the respective SLDCs"
- During the Financial Year 2021-2022 and 2022-23 the bill for RLDC Fees and charges was directly being raised to the concerned DIC by ERLDC.
- SLDC, WBSETCL does not have any regulatory guideline regarding raising the Provisional PLI Bill for FY 2022-2023 along with adjustment of Approved PLI Charges for FY 2021-2022 to the concerned entity within the State of West Bengal.

In absence of any guideline in this regard, it is requested that appropriate modalities may kindly be framed for raising the provisional PLI (Performance Linked Incentive) bill and Approved PLI charges bill to the concerned Distribution Licensees.

WBSETCL may explain. Members may discuss.

ITEM NO. B.7: Agenda by JBVNL.

In reference to the RTA month of DEC-2023 which is published by NLDC and accordingly we have raise the following concern in CTU Bill -1 month of DEC-2023

The transmission charged 276 MW extra in DEC-2023 by PGCIL. This includes the total GNA quantum for Jharkhand (1040 +276 = 1316 MW). However, total allowed GNA by CERC is 1110 MW for Jharkhand.

The waiver of transmission charges is calculated 17.98 % which is obtained against GNARE. However, the same is also applicable for Railways whereas only JBVNL buys energy from renewable sources.

As per sharing regulation SLDC bifurcate the allowed GNA into 72 & 1038 MW for railway &

Agenda for 50th CCM

Jharkhand respectively. However, PGCIL considered only 70 MW GNA for railway in calculation of transmission charges.

JBVNL may explain. Members may discuss.

ITEM NO. B.8: Agenda by ERLDC.

A. Default details of constituents pertaining to Deviation, Reactive, Fees and Charges.

The details of major defaulters as on 04.01.2024 considering the ERPC bills dated 28/12/23 (Wk- 11/12/23 to 17/12/23) for DSM charges and Reactive charges are tabulated below- -

Jharkhand:

| | JBVNL | |
|--------------------------|---|--|
| DSM (in Cr) | ₹ 54.54 Cr /- | |
| Reactive (in Cr) | - | |
| LC | LC Partially opened of ₹ 1.39 Cr. | |
| Due date of expiry of LC | 14-03-2024 | |
| | DSM: Pending from Q2 of FY 2020-21 | |
| Reconciliation | Reactive: Pending from Q1 of FY 2019-20 | |
| | FnC: Pending from Q1 of FY 2021-22 | |

Bihar:

| | Bihar |
|--------------------------|--|
| DSM (in Cr) | ₹ 29.42 Cr /- |
| Reactive (in Cr) | ₹ 0.77 Cr /- |
| LC | LC of ₹ 2.213 Cr expired on 12/11/2023 |
| Due date of expiry of LC | - |

Sikkim:

| | Sikkim |
|--------------------------|---|
| DSM (in Cr) | ₹ 22.95 Cr /- |
| Reactive (in Cr) | - |
| LC | No Valid LC |
| Due date of expiry of LC | - |
| | DSM: Pending from Q2 of FY 2019-20 |
| Reconciliation | Reactive: Pending from Q1 of FY 2019-20 |
| | FnC: Pending from Q1 of FY 2021-22 |

Further, the details of other pool members are enclosed as Annexure-I and Annexure-II.

JBVNL & SIKKIM may confirm the program for payment of outstanding dues.

B. Interest due to delayed payment of deviation charges/RRAS

Agenda for 50th CCM

Due to the delayed payment of deviation charges in the DSM Pool interest was computed for all the DSM Pool Members for FY 2020-21. The current outstanding of OPGC is **0.24 lakhs**. The status of interest is enclosed in **Annexure-III.**

OPGC may update the status of the same.

C. Opening of LC by ER Constituents for DSM Payments.

The details of LC amount required to be opened, as per ERLDC letter dated 21/04/2023 (and reminder letter dated 18/12/2023), for default in FY 2022-23 by ER constituents is given in table below -

| SI No | ER Constituents | LC Amount (110% of Average weekly Deviation Charge liability) | Due date of expiry | Remarks |
|----------|-----------------|---|--------------------------|----------------------------------|
| 1 | BSPTCL | 404.55551 | | No Valid LC |
| 2 | JUVNL | 347.61817 | 13-03- 2024 | LC opened for ₹ 139,64,455 /- |
| 3 | DVC | 265.67154 | - | No Valid LC |
| 4 | Sikkim | 46.0397 | - | No Valid LC |
| 5 | CHUZACHEN | 2.46842 | - | No Valid LC |
| 6 | GMR | 20.05681 | - | No Valid LC |
| 7 | JITPL | 30.09467 | - | No Valid LC |
| 8 | JLHEP | 25.22302 | - | No Valid LC |
| 9 | BRBCL | 36.77389 | - | No Valid LC |
| 10 | Tashiding | 8.3789 | - | No Valid LC |

Further, the details of other pool members are enclosed as Annexure-IV.

D. Status of PSDF.

An amount of total 5.61 Cr (Reactive charges) from the Reactive Pool account has been transferred to PSDF after the 49th Commercial sub-committee meeting held on 28.07.2023. With this the total amount of around 2187.32 Cr has been transferred to PSDF so far. The breakup details of fund transferred to PSDF (till 04.01.24) is enclosed in **Annexure V**.

This is for information to the members.

E. Reconciliation of Pool Accounts.

The reconciliation statements of DSM, Reactive, TRAS(RRAS), and SRAS(AGC) charges are being issued by ERLDC on quarterly basis and statements are being sent to the respective constituents and also being uploaded at ERLDC website at https://erldc.in/market-operation/dsmreconcilation/. The status of reconciliation as on 04.01.2024 is enclosed in **Annexure- VI and VII.**

Constituents are requested to take necessary action for the signing of pending reconciliation statements.

F. Short term Open Access.

1. For STOA Payments made to SLDC/STU and CTU.

The reconciliation statements of STOA payments of Q-2 for FY 23-24 have been sent to the DVC, OPTCL, BSPTCL, Jharkhand, Andhra Pradesh, Himachal Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Uttar Pradesh, WBSETCL, CHHATTISGARH, Delhi, JAMMU & KASHMIR, Gujrat, Manipur, Tamil Nadu and CTU on dated 27.10.2023 and also uploaded the same at ERLDC website at https://erldc.in/open-access/reconciliation-sldc-stu/.The constituents were requested to verify /check the same & comment (if any) to ERLDC at the earliest.

The status of reconciliation is enclosed in Annexure- VIII.

Constituents are requested to update the status of reconciliation.

2. For Payments made to STOA Applicants.

The reconciliation statements of STOA payments for the period of Q2 for FY 23-24 have been sent to the GRIDCO, GMRETL, JBVNL, JITPL, WBSEDCL, APPCPL, DALMIA CEMENT (BHARAT) LIMITED (RCW), HPX, IEXL, IPCL, NALCO(AP), NALCO(OD), KEIPL, PXIL, ITC Limited Dairy Plant, ITC Limited ITD Munger, ITC Limited Corporate Office Kolkata, TSL-132KV, SHUBHEKSHA ADVISORS PRIVATE LIMITED and TPTCL on dated 27.10.2023 and also uploaded the same at ERLDC website at https://erldc.in/open-access/reconciliation-applicant/.The constituents were requested to verify /check the same & comment (if any) to ERLDC at the earliest.

The status of reconciliation is enclosed in **Annexure-VIII.**

Constituents are requested to update the status of reconciliation.

G. Fees and charges of ERLDC.

The reconciliation statements of FnC payments by registered users of ERLDC have been sent up to the period of Q2 of FY 2023-24. The same is also available at FnC portal https://fc.posoco.in/FnCWeb/#/landing. Many of the users are yet to sign the reconciliation statement. The constituents were requested to verify /check the same & comment (if any) to ERLDC at the earliest.

The status of reconciliation is enclosed in **Annexure-IX**.

Constituents are requested to update the status of reconciliation.

H. Status of Procurement of New SEM for Eastern Region:

In 47th ERPC meeting dated 25.11.2022, it was decided to procure new 325 SEM towards replacement of old LnT meters & upcoming projects in Eastern region. TCC advised CTU to go ahead with the procurement of 325 meters. CTU representative submitted that they would authorize PowerGrid to procure the additional 325 nos. of SEMs.

The status of procurement was discussed in 208th OCCM wherein Powergrid representative submitted that procurement of meters is under process whose bid opening date has been extended from 11.10.2023 to 26.10.2023.

CTU/PGCIL may update the status of procurement of the meters.

I.Non receipt of Data of Bihar

The meter data of Amnour (Bsptcl) are not being received by ERLDC since the time of FTC. The meter data of Khagaria (Bihar) is not being received since a year. Although multiple reminder mail has been sent for the same, the problem is still persisting. The non receipt of data is affecting the data validation on a weekly basis.

Bihar may update the status.

J. Frequent time drift in Genus meters

It has been observed that frequent time drift is occurring in Genus make meters. The problem is mostly happening during return of shutdown of any element. Around 10-15 meters are getting drifted on weekly basis for significant amount of time. The situation is creating a more serious concern during time drift of both end meter of a particular line. It is creating huge difficulty in DSM account finalization.

Members may discuss.

K. Faulty cable in newly procured meters

It has been noticed that most of the substations are facing problems in downloading & sending data of newly installed meters. After consultation with the Meter manufacturer, it is found that most of the cases are due to faulty cables. The problems are mainly noticed in various substations of NTPC, Jharkhand & Bihar.

CTU/PGCIL may update.

L. Problem in AMR Data Collection

ERLDC is receiving majority of meter data from remote locations through AMR scheme. AMR scheme is using LAN network and is free from GPRS. In the last few weeks, issues in data collection activities through AMR scheme has occurred which have impacted the weekly metering activities. As informed by TCS, issue has been in LAN/WAN network. The problem is still reoccurring which need to be addressed at the earliest.

CTU/PGCIL may update.

ITEM NO. B.9: Agenda by Powergrid-ER-I.

A. Non-Opening of requisite amount of LC:

 Following constituents are required to enhance/ extend LC towards Payment Security Mechanism, as per Annexure-8 of 8.2 of Para 8.0 of BCD Procedure and CERC Regulations:

| SI No | Name of DIC's | Required Value of LC (in Cr.) | Present Value of LC (in Cr.) |
|----------|--|----------------------------------|---------------------------------|
| (i) | North Bihar Power Distribution Company Limited (NBPDCL) | 90.98 | 9.73 |
| (ii) | South Bihar Power Distribution Company Limited (SBPDCL) | 106.52 | 15.27 |
| (iii) | Jharkhand Bidyut Vitran Nigam Ltd (JBVNL) | 31.42 | 11.52 |
| (iv) | Sikkim | 3.10 | |

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

B. Payment of Outstanding dues more than 45 days:

| SI No | Name of DIC's | Total Outstanding Dues (in Cr.) | Outstanding Dues more than 45 days (in Cr.) |
|-------|--|---------------------------------------|---|
| (i) | Jharkhand Bijli Vitran Nigam Limited (JBVNL) | 161.2 | 39.50 |
| (ii) | South Bihar Power Distribution Company Limited (SBPDCL) | 238.06 | 92.86 |
| (iii) | North Bihar Power Distribution Company Limited (NBPDCL) | 191.36 | 67.02 |
| (iv) | West Bengal State Electricity Transmission Company Ltd. (WBSETCL) | 28.91 | 28.74 |
| (v) | West Bengal State Electricity Distribution Company Ltd. (WBSEDCL) | 376.92 | 9.76 |
| (vi) | Odisha Power Generation Company Limited (OPGCL) | 17.07 | 17.07 |
| | Total | 1013.52 | 254.95 |

C. Non-payment of RTDA bills:

The following DIC's are not paying RTDA bills:

| SI No | Name of DIC's | Outstanding dues | Remarks |
|-------|---|---------------------|--|
| (i) | West Bengal State Electricity Distribution Company Ltd. (WBSEDCL) | 9.76 Cr. | Outstanding dues of INR 1.20 Cr. pending for long period, INR 2.91 Cr. (bill dtd. 09.12.2022) & INR 5.65 Cr. (bill dtd. 10.05.2023) against RTDA bills are still pending with WBSEDCL despite of several follow up regarding this. |

D. Issuance of trial run certificate of 3x80 MVAR Line Reactor of 765kV Gaya-Balia Line at Gaya SS.

In reference to above, the request for issuance of trial run certificate of following assets was submitted to ERLDC on dated 19.03.2015:

i)765kV Gaya-Balia Line along with 3x80MVAR Line Reactor at Gaya end:

Subsequently, Certificate of Completion of Trial operation was issued by NLDC on dated 31.03.2016. However, in the issued certificate, the asset was mentioned as only '765kV Gaya-Balia line' in place of '765 kV Gaya-Balia Line along with 3x80 MVAR Line Reactor at Gaya'. Trial run certificate of 3x80MVAR Line Reactor is asked by honorable CERC during true-up tariff finalization.

In this regard, issuance of Trial run Certificate of 3 X 80 MVAR Line reactor of 765KV Gaya-Balia Line at Gaya SS is again requested through mail dated 25.07.2022, letter dated 06.09.2022 & letter dated 29.12.2023.

The relevant communications and documents in this regard is enclosed in Annexure.

E. List of Assets during July'23 to December'23 of Eastern Region (ER)

| А | Provision of Spare ICTs in Eastern Region | DOCO | Remarks | Region |
|---|--|------------|--------------------------------|--------|
| 1 | 1 No. 160 MVA,220/132 KV ICT at 400/220/132 kV Daltonganj S/S | 06-07-2023 | DOCO Letter Dtd. 10.07.2023 | ER-I |

| В | Provision of Spare ICTs in Eastern Region | DOCO | Remarks | Region |
|---|---|------------|--------------------------------|--------|
| 1 | 1 No. 500 MVA, 400/220 KV ICT at 400/220 kV Pusauli S/S | 03-08-2023 | DOCO Letter Dtd. 03.08.2023 | ER-I |
| С | Establishment of Communication System under Expansion/Upgradation of SCADA/EMS System at SLDCs of ER (BSPTCL and DVC) links | DOCO | Remarks | Region |
| 1 | MTPS-Gopalganj (100.35 kM) | 01-02-2021 | | |
| 2 | Siwan-Gopalganj (30.12 kM) | | | |
| 3 | Saharsa- Purnea (BH) (101.11 kM) | | | ER-I |
| 4 | Kahalgaon (BH)- Kahalgaon (NTPC) (5.71 kM) | 10-09-2022 | | |
| 5 | Hathidah- Lakhisarai (BH) (28.98 kM) | 14-05-2022 | | |
| D | Fibre Optic Communication System in Eastern Region under expansion of wideband communication system in Eastern Region | DOCO | Remarks | Region |
| 1 | Biharshariff-Banka (OPGW cable 24 F), Length= 183.872 kM | 27-06-2023 | DOCO Letter Dtd. 22.08.2023 | ER-II |
| E | POWERGRID works associated with Transmission System Strengthening in Indian System for transfer of power from new HEPs in Bhutan | DOCO | Remarks | Region |
| 1 | 02 numbers 400 kV line bays at Alipurduar S/S for termination of Alipurduar-Siliguri (New) 400 kV D/C (Quad) line (line under TBCB) | 01-08-2019 | DOCO Letter | ER-II |
| 2 | 02 numbers 400 kV line bays at Siliguri S/S for termination of Alipurduar-Siliguri (New) 400 kV D/C (Quad) line (line under TBCB) | 01-00-2019 | Dtd. 04.09.2023 | EK-II |
| F | Project-ERSS-XVII-B | DOCO | Remarks | Region |

| 1 | Corrigendum:-Reconductoring of Maithon RB- Maithon 400 kV D/C line along with modifications/additions in bay equipment at both ends of the line viz. Maithon 400/220 kV S/S of POWERGRID and generation switchyard of Maithon RB. | 08-08-2023 | DOCO Letter Dtd. 09.10.2023 | ER-II |
|---|---|------------|--------------------------------|-----------------|
| G | Establishment of Reliable Communication Scheme Under Central sector for Eastern Region. | DOCO | Remarks | Region |
| 1 | Alipurduar-Salakati (OPGW Cable 24 F), 109.264 KM in Length | 23-02-2022 | DOCO Letter Dtd. 04.09.2023 | ER-II |
| н | Provision of Spare ICTs in Eastern Region | DOCO | Remarks | Region |
| 1 | 1 No. 500 MVA, 400/220 KV, 3-Ph ICT at 400/220 KV Pandiabili S/S (Regional SPARE ICT for Odisha) | 05-09-2023 | DOCO Letter Dtd. 05.09.2023 | Odisha Proj. |
| I | Communication System Package for Strengthening of OPGW Network in ER associated with project upgradation of SCADA /RTUs/SAS in central sector stations and strengthening of OPGW network in ER | DOCO | Remarks | Region |
| 1 | 400 kV Talcher-Rourkela OPGW link along with associated equipments i.e 2 Nos SDH equipment with 4 nos of OLIC (225 KM Range) and 2 nos 48V DC power supply (450 Ah Battery Bank & 35A DCPS) at Rourkela (POWERGRID) and Talcher (NTPC) S/S- 170.963 kM | 21-09-2023 | DOCO Letter Dtd. 10.11.2023 | Odisha Proj. |

Annexure B.1

| 10-09-2023 23:59 Date 26-09-2023 00:00 | Source OpenHRS | | | | | |
|---|---|--------------------------------------|--|-------------------------------------|---------------------------------------|------------------------------------|
| | Date | AGHU_DV - 400_Main_Bus2_Voltage (AVE | RAGI RAGHU_DV - 400_RANCH_PG_2_P (AVERAL | EE AGHU_DV - 400_RANCH_PG_2_Q (AVER | AGEVGHU_DV - 400_RANCH_PG_3_P (AVERAV | RAGHU_DV - 400_RANCH_PG_3_Q (AVERA |
| | 04-09-2023 00:00:00 04-09-2023 00:15:00 | 406.0 405.1 | 182.3 192.6 | -34.5 -34.7 | 180.5 190.6 | -36.9 -37.3 |
| | 04-09-2023 00:30:00 04-09-2023 00:45:00 | 405.4 405.6 | 200.2 203.4 | -36.7 -38.0 | 198.0 201.4 | -39.3 -40.6 |
| | 04-09-2023 01:00:00 04-09-2023 01:15:00 | 406.0 406.0 | 201.8 205.0 205.3 | -39.3 -40.7 -42.6 | 199.8 203.0 | -41.8 -43.3 |
| | 04-09-2023 01:45:00 | 406.5 406.8 | 201.6 | -44.3 | 202.8 199.3 | -45.4 -47.0 |
| | 04-09-2023 02:00:00 04-09-2023 02:15:00 | 407.1 407.1 | 203.3 209.5 | -46.0 -45.6 | 201.1 207.4 | -48.8 -48.3 |
| | 04-09-2023 02:30:00 04-09-2023 02:45:00 | 407.0 407.0 | 213.3 209.9 | 46.0 | 211.0 207.7 | -48.9 -50.4 |
| | 04-09-2023 03:00:00 04-09-2023 03:15:00 | 407.4 407.7 | 207.1 204.2 | -48.7 -51.0 | 204.8 202.0 | -51.3 -53.6 |
| | 04-09-2023 03:30:00 04-09-2023 03:45:00 | 408.0 408.0 408.1 | 202.2 203.7 203.7 | -52.4 -52.7 -52.9 | 200.1 201.5 201.3 | -54.9 -55.3 -55.4 |
| | 04-09-2023 04:00:00 04-09-2023 04:15:00 | 408.1 408.5 | 203.7 204.9 | -52.9 -53.3 | 201.3 202.7 | -55.4 -56.0 |
| | 04-09-2023 04:30:00 04-09-2023 04:45:00 | 408.3 408.5 | 205.9 209.0 | -53.2 -53.3 | 204.3 204.3 | -55.8 -56.9 |
| | 04-09-2023 05:00:00 04-09-2023 05:15:00 | 408.2 408.7 | 212.7 220.2 | -53.6 -54.5 | 202.6 209.4 | -59.8 -61.0 |
| | 04-09-2023 05:30:00 04-09-2023 05:45:00 | 409.0 408.2 | 235.8 257.0 | -55.7 -54.7 | 224.0 244.2 | -62.7 -62.7 |
| | 04-09-2023 06:00:00 04-09-2023 06:15:00 | 408.2 408.3 407.8 | 268.8 278.4 283.5 | -52.4 -52.0 -48.2 | 256.1 265.0 | -60.6 -60.8 |
| | 04-09-2023 06:30:00 04-09-2023 06:45:00 | 407.8 408.0 | 283.5 283.5 | 48.2 | 268.1 268.2 | -58.4 -57.1 |
| | 04-09-2023 07:00:00 04-09-2023 07:15:00 | 408.0 408.2 | 284.8 274.3 | -46.2 -48.5 | 269.5 266.6 | -56.8 -54.9 |
| | 04-09-2023 07:30:00 04-09-2023 07:45:00 | 408.0 408.0 | 268.7 262.5 | 48.3 -49.3 | 261.6 256.6 | -54.4 -54.6 |
| | 04-09-2023 08:00:00 04-09-2023 08:15:00 | 408.0 407.6 | 258.1 256.3 | -49.3 -49.9 | 247.5 242.2 | -56.8 -59.1 |
| | 04-09-2023 08:30:00 04-09-2023 08:45:00 | 407.2 | 257.9 256.0 | -50.9 | 244.1 242.0 | -59.7 -60.2 |
| | 04-09-2023 09:00:00 04-09-2023 09:15:00 | 407.4 407.4 407.4 | 249.5 244.9 | -51.1 -50.8 -49.6 | 238.7 242.8 | -58.1 -52.4 |
| | 04-09-2023 09:30:00 04-09-2023 09:45:00 | 407.1 407.0 | 245.2 236.9 | -48.4 -47.6 | 243.2 235.0 | -51.3 -50.3 |
| | 04-09-2023 09:45:00 04-09-2023 10:00:00 04-09-2023 10:15:00 | 407.0 407.1 | 236.9 221.8 206.3 | 47.6 | 235.0 218.4 202.4 | -50.3 -50.7 -52.7 |
| | 04-09-2023 10:30:00 | 407.3 | 206.3 201.6 191.1 | -48.7 | 197.3 | -52.1 |
| | 04-09-2023 10:45:00 04-09-2023 11:00:00 04-09-2023 11:15:00 | 407.0 407.0 | 191.1 186.9 | 47.4 45.6 | 185.4 181.5 | -51.4 -49.4 |
| | 04-09-2023 11:15:00 04-09-2023 11:30:00 | 407.0 407.0 406.3 | 188.3 187.9 | 45.8 43.8 46.5 | 182.3 179.1 | -49.9 -49.2 -54.3 |
| | 04-09-2023 11:45:00 04-09-2023 12:00:00 | 406.0 | 212.2 215.0 | -41.9 | 199.0 204.5 | -49.0 |
| | 04-09-2023 12:15:00 04-09-2023 12:30:00 | 405.6 405.5 405.3 | 223.5 234.5 235.1 | -40.2 | 211.5 222.3 222.9 | -48.0 -47.0 -47.3 |
| | 04-09-2023 12:45:00 04-09-2023 13:00:00 | 404.9 | 238.3 | -38.9 -37.6 | 225.7 | -46.4 |
| | 04-09-2023 13:15:00 04-09-2023 13:30:00 | 405.5 405.7 | 245.8 253.9 | -41.6 -43.1 | 232.6 240.3 | -50.4 -52.3 |
| | 04-09-2023 13:45:00 04-09-2023 14:00:00 | 405.1 405.6 | 260.4 267.3 | -42.1 -44.6 | 246.2 252.3 | -51.8 -54.8 |
| | 04-09-2023 14:15:00 04-09-2023 14:30:00 | 405.5 405.0 | 271.5 | -44.1 -40.6 | 256.6 253.0 | -54.3 -50.9 |
| | 04-09-2023 14:45:00 04-09-2023 15:00:00 | 404.9 405.0 | 268.6 271.2 276.9 | 41.2 42.1 45.8 | 253.5 256.4 261.5 | -51.6 -52.3 -56.2 |
| | 04-09-2023 15:15:00 04-09-2023 15:30:00 | 405.1 405.2 | 276.6 | -46.8 | 261.8 | -56.7 |
| | 04-09-2023 15:45:00 04-09-2023 16:00:00 | 405.0 405.0 | 278.4 274.0 | -49.2 -48.6 | 262.9 258.6 | -59.2 -58.5 |
| | 04-09-2023 16:15:00 04-09-2023 16:30:00 | 405.8 405.8 | 264.5 270.3 | -49.1 -48.0 | 249.6 254.6 | -58.9 -58.3 |
| | 04-09-2023 16:45:00 04-09-2023 17:00:00 | 405.2 405.1 | 281.0 287.8 | -48.6 -49.2 | 265.4 274.9 | -59.1 -58.2 |
| | 04-09-2023 17:15:00 04-09-2023 17:30:00 | 405.8 406.0 405.3 | 275.6 276.2 273.1 | -52.5 -50.5 -49.4 | 274.2 274.8 271.9 | -55.6 -53.4 -52.2 |
| | 04-09-2023 17:45:00 04-09-2023 18:00:00 | 405.3 405.6 | 273.1 258.4 | -49.4 -48.3 | 271.9 257.0 | -52.2 -51.0 |
| | 04-09-2023 18:15:00 04-09-2023 18:30:00 | 405.4 405.0 | 242.5 247.8 | -49.3 -47.0 | 241.2 246.8 | -51.7 -49.7 |
| | 04-09-2023 18:45:00 04-09-2023 19:00:00 | 405.0 404.8 | 251.4 249.7 | 45.9 | 250.3 248.5 | -48.5 -47.5 |
| | 04-09-2023 19:15:00 04-09-2023 19:30:00 | 404.7 405.0 | 241.0 235.3 | 43.6 -41.9 | 240.0 234.2 | 46.3 -44.4 |
| | 04-09-2023 19:45:00 04-09-2023 20:00:00 | 405.0 | 223.7 198.0 | -41.1 | 222.8 | -43.6 -43.8 |
| | 04-09-2023 20:15:00 04-09-2023 20:30:00 | 405.2 405.3 405.0 | 203.6 204.8 | -41.4 -43.4 -42.5 | 196.4 202.6 203.7 | 45.7 -44.8 |
| | 04-09-2023 20:45:00 04-09-2023 21:00:00 | 405.3 405.1 | 200.1 194.9 | -41.4 -39.6 | 198.7 193.6 | -43.7 -41.8 |
| | 04-09-2023 21:15:00 04-09-2023 21:30:00 | 405.0 405.0 | 190.1 192.1 | -39.6 -40.8 | 188.7 190.8 | -41.8 -43.0 |
| | 04-09-2023 21:45:00 04-09-2023 22:00:00 | 405.0 405.4 | 197.3 200.3 | 41.5 41.7 | 195.8 198.9 | -43.8 -44.1 |
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| | 04-09-2023 22:45:00 04-09-2023 23:00:00 | 405.3 405.2 405.0 | 193.8 193.5 | -40.1 -40.9 -39.5 | 192.7 192.5 192.0 | 42.3 43.2 41.9 |
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| | 05-09-2023 15:15:00 05-09-2023 15:30:00 05-09-2023 15:45:00 | 405.4 405.4 405.3 | 253.0 258.9 259.1 | -45.7 -44.9 -44.4 | 252.0 257.5 257.8 | -48.4 -47.6 -47.2 |
| | 05-09-2023 16:00:00 | 405.3 405.0 405.2 | 259.1 260.9 257.7 | -44.4 -44.3 -45.1 | 257.8 259.7 256.5 | -47.2 -47.0 -47.9 |
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| | 05-09-2023 16:45:00 05-09-2023 17:00:00 | 405.0 405.2 | 273.4 275.2 | 41.1 42.3 | 272.1 273.3 | -44.0 -45.2 |
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|---|--------------------------------------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | 09-2023 19:30:00 09-2023 19:45:00 | 404.7 404.3 | 214.2 207.7 | -35.3 -34.9 | 213.0 206.5 | -37.7 |
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| | 09-2023 21:00:00 09-2023 21:15:00 | 405.0 | 204.8 207.2 | -33.6 -36.5 | 203.6 205.9 | -35.9 -38.9 |
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| | 09-2023 23:15:00 | 405.0 | 186.3 | -30.1 | 184.9 | -32.4 |
| | 09-2023 23:30:00 09-2023 23:45:00 | 405.0 | 192.6 | -29.6 -31.4 | 185.4 190.1 | -31.9 -34.0 |
| | 09-2023 00:15:00 | 405.0 | 188.7 | -30.2 | 187.1 | -32.7 |
| | 09-2023 00:30:00 09-2023 00:45:00 | 405.2 | 194.6 | -33.2 -34.5 | 188.6 | -35.6 -36.9 |
| | 09-2023 01:00:00 09-2023 01:15:00 | 405.0 | 196.6 | -36.5 -39.5 | 199.4 | -38.8 -41.9 |
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| | 09-2023 02:00:00 09-2023 02:15:00 | 406.0 406.0 | 214.5 213.8 | 41.8 42.4 | 213.0 212.4 | -44.2 -44.9 |
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| Abe 20000Abe 20000 <td>09-2023 04:30:00</td> <td>407.0 407.0</td> <td>235.9 236.1</td> <td>-51.3</td> <td>234.4 234.6</td> <td>-54.1 -53.5</td> | 09-2023 04:30:00 | 407.0 407.0 | 235.9 236.1 | -51.3 | 234.4 234.6 | -54.1 -53.5 |
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| SecondAddAddAddAddAddSecond <t< td=""><td>09-2023 07:00:00</td><td>406.0</td><td>280.5</td><td>43.2</td><td>278.8</td><td></td></t<> | 09-2023 07:00:00 | 406.0 | 280.5 | 43.2 | 278.8 | |
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| description <td></td> <td>406.0</td> <td>275.0 274.7</td> <td>.44.7</td> <td>273.2 272.8</td> <td>-47.9</td> | | 406.0 | 275.0 274.7 | .44.7 | 273.2 272.8 | -47.9 |
| DescriptionNoiseNoiseNoiseNoiseNoiseNoiseNoiseDescriptionAAA< | 09-2023 08:30:00 | 406.0 | 282.7 | -42.1 -39.0 | 280.5 | 45.4 42.6 |
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| 6.86.2011060 463 101 43 284 463 6.86.2011060 463 101 40 101 40 6.86.2011060 463 101 40 101 40 6.86.2011060 463 101 40 101 40 6.86.201060 461 101 40 101 40 6.86.201060 461 101 40 101 40 6.86.201060 461 101 40 101 40 6.86.201060 461 101 40 101 40 6.86.201060 461 101 40 101 40 6.86.201060 461 101 40 101 40 6.86.201060 461 101 40 101 40 6.86.201060 461 101 40 101 40 6.86.201060 461 101 40 101 40 6.86.201060 461 101 </td <td></td> <td>405.0</td> <td>218.6</td> <td>-35.2</td> <td>216.9</td> <td>-37.8</td> | | 405.0 | 218.6 | -35.2 | 216.9 | -37.8 |
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| 66.9.00176.00 46.3 23.3 41.7 10.10 46.6 66.9.0118.00 46.1 20.4 44.1 20.10 40.1 66.9.0118.00 46.1 20.3 46.0 20.9 40.1 66.9.0118.00 46.1 20.3 46.0 20.9 40.1 66.9.0118.00 46.1 20.3 46.0 20.4 40.1 40.1 66.9.0118.00 46.1 20.1 40.1 20.1 40.1 40.1 40.1 40.1 66.9.0118.00 46.1 20.1 40.1 20.1 40.1 20.1 40.1 66.9.0118.00 46.1 20.1 40.1 20.1 40.1 < | 09-2023 17:15:00 | 405.7 405.3 | 246.1 253.8 | -45.5 -43.4 | 244.3 252.0 | -48.6 -46.3 |
| Bell Bell <th< td=""><td></td><td>405.9 405.5</td><td>253.7 250.2</td><td>-44.1</td><td></td><td>-46.6 -47.0</td></th<> | | 405.9 405.5 | 253.7 250.2 | -44.1 | | -46.6 -47.0 |
| 6.6.9.031460 44.1 123 34.6 120 44.0 6.6.9.031460 44.1 121 44.0 131.1 44.0 6.6.9.031460 44.3 26.1 44.4 120.2 44.1 6.6.9.031460 40.3 26.1 44.4 120.2 44.1 6.6.9.03160 40.3 20.2 44.3 120.7 44.1 6.6.9.031800 40.3 121.2 44.3 120.7 44.1 6.6.9.031800 40.3 121.2 44.3 124.1 44.1 44.1 6.6.9.031800 40.3 181.1 40.3 134.1 44.1 44.1 6.6.9.031800 40.3 181.4 40.3 134.1 44.3 44.1 6.6.9.031800 40.3 181.4 40.3 134.1 44.3 44.1 44.1 44.1 44.1 44.1 44.1 44.1 44.1 44.1 44.1 44.1 44.1 44.1 44.1 44.1 44.1 44.1 44 | 09-2023 18:15:00 | 406.1 404.9 | 236.4 224.5 | -44.6 | 234.6 | -47.2 -43.1 |
| 668.0319150 461 272 433 1513 434 669.0319150 463 261 413 2614 414 2614 669.0319150 463 2617 414 2617 414 669.0319150 463 2617 414 2617 414 669.0319150 463 2617 413 2617 414 669.0319160 463 2617 413 2617 414 669.0319160 463 1618 401 111 414 414 669.0319160 463 261 261 403 1164 413 669.0319160 463 261 261 413 413 413 413 414 4 | 09-2023 18:45:00 | 404.8 | 219.9 | -38.6 | 217.0 | -42.0 |
| 6.6.9.02 44.5 32.5 44.5 32.7 44.5 32.7 44.5 32.7 44.5 32.7 44.5 32.7 44.5 32.7 44.5 32.7 44.5 32.7 44.5 32.7 44.5 32.7 | | 404.8 | 217.3 205.4 | -40.3 | 215.2 | -42.8 |
| 969.933 375.00 40.3 907 444 969.933 375.00 46.3 107 41.1 156.0 44.4 869.933 1860 46.3 107.3 41.1 156.0 44.4 869.933 1860 46.3 103.1 41.3 164.4 44.3 869.933 1860 46.3 181.1 40.5 181.4 40.3 869.933 1860 46.3 184.1 40.3 186.9 44.3 869.933 1860 46.3 185.1 41.3 186.9 44.3 869.933 1860 46.3 185.1 41.3 186.9 44.3 869.933 1860 46.5 187.1 43.3 186.1 44.3 869.933 1860 46.5 187.1 43.3 186.1 44.3 869.933 1860 46.5 187.1 43.3 186.1 44.3 869.933 1860 46.5 187.1 43.3 186.1 44.3 909.933 1860 46.5 187.1 43.3 186.9 44.3 <td>09-2023 19:45:00</td> <td>405.0</td> <td>203.6</td> <td>-41.5</td> <td>201.6</td> <td>-44.0</td> | 09-2023 19:45:00 | 405.0 | 203.6 | -41.5 | 201.6 | -44.0 |
| 66 = 9.03 > 86.0 46.3 91.3 41.2 14.0 44.0 $66 = 9.01 > 16.0$ 44.4 91.3 41.2 194.0 41.4 $66 = 9.01 > 16.0$ 44.5 91.5 42.5 91.6 44.3 $66 = 9.01 > 16.0$ 46.5 284.5 42.5 195.6 44.5 $66 = 9.01 > 16.0$ 46.5 284.5 44.5 195.6 44.5 $66 = 9.01 > 16.0$ 46.5 195.6 41.5 40.5 10.5 40.5 $66 = 9.01 > 16.5$ 46.5 10.5 41.5 40.5 10.5 40.5 10.5 40.5 $66 = 9.01 > 16.5$ 10.5 41.5 10.5 41.5 10.5 | 09-2023 20:15:00 | 405.0 | 202.8 | -42.3 | 200.7 | -44.6 |
| 668.0211160 465 191 465 1914 461 669.021140 660 161 407 1914 401 669.021140 660 161 407 1916 411 669.021260 403 164 407 1818 403 669.021260 403 161 413 161 414 669.021260 403 161 413 161 414 669.021260 403 161 413 163 414 669.021260 403 161 413 163 414 669.021260 403 163 413 163 414 669.021260 403 163 161 173 1819 404 709.020160 403 161 131 161 403 404 709.020160 403 161 131 161 404 404 404 404 404 404 404 404 404 4 | 09-2023 20:45:00 | 405.0 | 191.9 191.5 | -40.2 -39.1 | 186.0 | -44.4 -42.3 |
| 669.2021460 46.5 2011 407 1964 44.5 669.2021460 66.3 1051 40.3 1092 40.3 669.2021460 66.3 1051 40.3 1092 40.3 669.2021460 66.3 1052 40.3 1053 40.4 669.2021460 66.3 1051 40.3 1053 40.4 669.2021460 66.3 1051 40.3 1073 40.4 669.2021460 66.3 1051 40.3 1074 40.3 669.2021460 66.3 1051 40.3 1074 40.4 669.2021460 66.3 1051 40.3 1074 40.4 669.2021460 66.3 1051 40.4 1074 40.4 679.2021600 65.3 1051 40.3 1074 40.4 679.20216100 65.3 1061 40.1 1051 40.4 679.20216100 65.3 1061 40.1 1051 40.4 <td>09-2023 21:15:00</td> <td>405.0</td> <td>198.2</td> <td>-40.5</td> <td>191.4</td> <td>-45.2</td> | 09-2023 21:15:00 | 405.0 | 198.2 | -40.5 | 191.4 | -45.2 |
| 669.2012800 461.3 184.1 41.2 10.7.5 40.4 669.3017.000 663.0 164.4 41.3 16.2 40.9 669.3017.000 663.0 164.4 41.3 16.2 40.9 669.3017.000 663.0 164.5 34.9 174.7 33.2 669.3017.000 463.0 175.1 34.3 174.7 33.4 679.3010.000 463.0 172.7 34.6 176.8 34.6 | 09-2023 21:45:00 | 405.0 | 204.1 | -40.7 | 199.6 | -44.5 |
| 66.9.02746.0 66.2 $B72$ 40.3 $B13.4$ 40.3 $66.9.02746.0$ 66.3 $B6.1$ $B15.4$ | 09-2023 22:15:00 | 405.8 | 195.1 | 42.8 | 193.2 | 47.1 |
| 669, 80231360 $46, 6$ 155 $34, 6$ 147 312 $669, 80231360$ $66, 6$ 113 141 140 342 $669, 80231360$ $66, 6$ 112 341 140 342 $69, 8023160$ $66, 6$ 112 345 1163 346 $79, 8023160$ $66, 6$ 112 315 166 366 $79, 8023160$ $66, 6$ 111 312 316 464 $79, 8023160$ $66, 6$ 114 413 1104 464 $79, 8023160$ $66, 6$ 114 413 1104 464 $79, 8023160$ $66, 6$ 114 411 1114 414 411 1114 414 411 1114 414 411 1114 414 411 1114 414 411 1114 411 1114 411 1114 411 1114 4114 1114 411 | 09-2023 22:45:00 | 405.0 | 187.8 | -40.3 | 185.8 | -42.7 |
| 669.2021460 46.5 173.1 34.4 177.9 38.9 669.2021460 46.5 107.3 106.0 103.3 106.0 33.4 079.2021460 46.5 106.1 37.3 106.0 34.4 079.2021460 46.5 106.1 37.3 106.0 44.5 079.2021460 46.6 101.1 13.3 106.0 44.6 079.2021460 46.6 104.1 40.1 157.0 44.1 079.2021460 46.6 104.1 40.1 157.0 44.1 079.2021500 46.6 104.1 40.1 156.0 44.1 079.2021500 46.5 102.1 44.1 108.1 40.1 079.2021500 47.2 20.5 44.3 108.1 40.1 079.2021500 47.2 20.3 44.3 108.1 40.3 079.2021500 47.2 20.3 44.3 108.1 40.3 079.2021500 47.3 20.1 44.3 <td>09-2023 23:15:00</td> <td>405.0</td> <td>176.5</td> <td>-35.0</td> <td>174.7</td> <td>-37.2</td> | 09-2023 23:15:00 | 405.0 | 176.5 | -35.0 | 174.7 | -37.2 |
| $\theta^{\circ} 0 > 0 > 0 > 0 > 0 > 0 > 0 > 0 > 0 > 0 $ | 09-2023 23:45:00 | 405.0 | 179.3 | -36.8 | 177.9 | -38.9 |
| $\theta = 0.202 0.650$ $\theta = 0.16$ <th< td=""><td>09-2023 00:15:00</td><td>405.0</td><td>187.2</td><td>-37.5</td><td>186.0</td><td>-39.6</td></th<> | 09-2023 00:15:00 | 405.0 | 187.2 | -37.5 | 186.0 | -39.6 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 09-2023 00:45:00 | 405.6 | 190.1 191.8 | -37.9 | 190.6 | -40.0 |
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| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | 407.0 | 206.0 | -45.1 | 198.9 | -50.0 |
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| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 09-2023 03:45:00 | 407.0 | 199.1 | -47.8 | 195.0 | -51.1 |
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| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 09-2023 04:45:00 | 407.8 | 200.6 | -48.5 | 191.3 | -54.4 |
| 67%-9028600 440 2137 461 2231 357 67%-9028600 440 2131 461 2231 357 67%-9028600 461 2131 461 2231 363 67%-9028600 461 2131 461 2231 363 67%-9028600 463 213 447 234 431 67%-9028600 463 2131 454 233 331 67%-9028600 467 2431 433 2331 331 67%-9028600 467 2431 433 2331 331 67%-9028600 467 2431 433 2331 331 331 67%-9028600 467 243 433 2331 | 09-2023 05:15:00 | 407.4 | 211.3 | | 190.0 201.0 | -54.6 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 09-2023 05:30:00 09-2023 05:45:00 | 408.0 408.0 | 218.2 223.6 | -49.3 -48.9 | 207.5 212.6 | -56.0 |
| 079-0038460 003 0413 477 0244 641 079-0038460 073 111 477 124 641 079-0038460 073 111 111 126 641 079-0038460 073 141 141 126 641 079-0038460 073 213 413 131 314 079-0038460 073 213 413 131 314 079-0038460 073 213 413 131 314 079-0038460 073 213 413 131 314 079-0038460 073 213 413 131 314 079-0038460 073 213 415 124 633 079-0038460 063 136 413 134 414 079-0038460 063 141 137 144 413 078-0038460 064 141 137 144 414 079-00318460 66 | 09-2023 06:15:00 | 408.0 408.2 | | -50.1 -50.2 | | -58.2 |
| 070-02071500 4070 2041 41.1 2165 334 070-02071500 4070 2451 41.1 2165 334 070-02071500 4070 2451 41.1 2161 31.3 070-02071500 4070 2451 41.1 2161 31.3 070-0201600 4070 2473 41.1 2164 31.4 070-0201600 4070 2473 41.7 212.4 63.3 070-0201600 4070 2149 41.9 212.4 63.3 070-02016100 463 200 43.0 216.4 43.1 070-02016100 463 200 43.0 216.4 43.1 070-02016100 463 200 43.0 216.4 44.1 070-02016100 463.0 116.0 40.7 151.1 40.1 070-0201600 463.0 116.1 40.0 116.4 40.1 070-0201600 463.0 116.1 40.2 151.1 | 09-2023 06:30:00 09-2023 06:45:00 | 407.4 407.3 | 238.3 241.5 | -46.5 -45.7 | 226.3 229.4 | -54.5 -54.1 |
| 079.00218000 4070 2480 41.1 1947 33.4 079.00218100 4070 20.3 40.7 20.43 54.4 079.00218100 4070 20.3 40.7 20.43 54.4 079.00218100 40.6 20.3 40.7 20.43 54.4 079.00218100 40.6 20.3 40.3 20.22 30.4 079.00219000 46.6 36.5 40.7 139.4 40.7 079.00219000 46.6 184.3 31.9 14.4 44.1 079.002190400 46.6 184.3 31.7 118.4 44.1 079.002190400 46.6 184.3 40.7 11.6 44.1 079.002190400 46.6 184.3 40.7 11.6 44.1 079.002190400 46.6 184.3 40.7 11.6 44.1 079.002190400 46.6 184.3 40.7 11.6 44.2 079.002190400 46.6 183.7 37.3 | 09-2023 07:15:00 | 407.0 | 249.1 | -45.1 | 236.5 | -53.8 |
| 07:09:2018:05:00 407.0 224.9 44.19 222.4 60.3 07:09:2018:05:00 46.0 21.00 44.9 25.04 63.3 07:09:2018:05:00 46.1 104.0 43.0 25.04 43.3 07:09:2019:15:00 46.1 104.5 34.0 114.0 44.9 07:09:2019:15:00 46.0 184.3 37.9 184.4 44.1 07:09:2019:00:00 46.0 104.7 175.1 46.2 07:09:2019:00:00 46.0 104.7 175.1 46.2 07:09:2019:00:00 46.0 104.7 43.9 104.4 45.1 07:09:2019:00:00 46.0 104.7 43.9 104.4 45.2 07:09:2019:00:00 46.0 103.1 37.9 184.4 40.2 07:09:2019:00:00 46.0 103.1 37.9 144.4 40.2 07:09:2019:00:00 46.5 16.0 34.2 17.2 14.4 42.4 07:09:20110:00 46.5 104.3 | | 407.0 | 245.7 251.0 | -43.3 | 233.2 238.3 | -52.3 |
| 07:09:2018:05:00 407.0 224.9 44.19 222.4 60.3 07:09:2018:05:00 46.0 21.00 44.9 25.04 63.3 07:09:2018:05:00 46.1 104.0 43.0 25.04 43.3 07:09:2019:15:00 46.1 104.5 34.0 114.0 44.9 07:09:2019:15:00 46.0 184.3 37.9 184.4 44.1 07:09:2019:00:00 46.0 104.7 175.1 46.2 07:09:2019:00:00 46.0 104.7 175.1 46.2 07:09:2019:00:00 46.0 104.7 43.9 104.4 45.1 07:09:2019:00:00 46.0 104.7 43.9 104.4 45.2 07:09:2019:00:00 46.0 103.1 37.9 184.4 40.2 07:09:2019:00:00 46.0 103.1 37.9 144.4 40.2 07:09:2019:00:00 46.5 16.0 34.2 17.2 14.4 42.4 07:09:20110:00 46.5 104.3 | 09-2023 08:00:00 09-2023 08:15:00 | 407.0 407.0 | 249.0 247.3 | 43.1 42.7 | 236.7 234.5 | -51.8 -51.4 |
| 079-8229900 46.5 36.7 4.77 197.4 487 079-8229900 46.5 36.7 4.77 197.4 487 079-8229900 46.5 181.3 31.3 134.4 44.3 079-8229976.0 46.1 186.0 43.7 197.4 44.3 079-8229976.0 46.1 186.0 43.7 197.3 46.0 079-8201976.0 46.0 175.5 44.0 40. | 09-2023 08:30:00 09-2023 08:45:00 | 406.9 | 218.0 | -43.8 | 222.4 206.2 | -51.3 |
| 07:09:320:94:60 461.1 1860 427 1751.1 462 07:09:320:94:60 461.1 1860 427 1751.1 462 07:09:320:94:60 463.0 1841 443 463.0 463.0 07:09:320:94:60 466.0 183.1 439.3 1844.4 462.0 07:09:320:94:60 466.9 183.1 379.3 1844.4 42.1 07:09:320:160:00 465.9 160.8 472.2 184.8 42.4 07:09:320:160:00 465.9 163.1 348.4 119.4 42.1 07:09:320:160:00 465.9 163.1 348.4 119.4 42.1 07:09:320:160:00 465.9 163.1 348.4 119.4 42.1 07:09:320:160:00 463.0 163.1 348.4 119.4 42.1 | 09-2023 09:00:00 09-2023 09:15:00 | 406.1 | 206.7 194.5 | -42.7 -38.0 | 195.4 184.0 | |
| 0798.2015100 466.0 164.1 41.9 154.1 457.5 0798.2015100 466.0 164.1 41.9 154.1 457.5 0798.2015100 466.0 161.1 41.9 154.1 457.5 0798.201540 463.0 161.1 41.9 154.1 454.4 0798.2011400 463.0 161.1 34.8 154.1 454.4 0798.2011400 463.0 151.1 34.8 154.1 44.1 0798.2011400 463.0 151.1 34.8 154.1 44.1 | 09-2023 09:45:00 | 406.0 406.1 | 186.0 | -42.7 | 175.1 | -49.2 |
| 07-09-2033 11:00:00 405:9 148.7 36.8 139.4 -42.1 07-09-2033 11:50:00 406:0 151.8 36.6 142.8 -44.8 07-09-2023 11:00:00 406:0 151.8 36.6 142.8 -44.8 07-09-2023 11:00:00 406:0 140.4 34.0 131.5 -33.0 | 09-2023 10:15:00 | 406.0 | 164.1 | -41.9 | 154.1 | -47.5 |
| 07-09-2023 110000 405.9 148.7 -36.8 139.4 -42.1 07-09-2023 115:00 406.0 151.8 -36.6 142.8 -44.8 07-09-2023 113:00.0 406.0 151.8 -36.6 142.8 -44.8 07-09-2023 113:00.0 406.0 140.4 -34.0 131.5 -33.0 | 09-2023 10:30:00 09-2023 10:45:00 | 405.9 | 153.7 150.8 | -37.9 -37.2 | 144.4 141.8 | -43.2 -42.4 |
| 07-09-2023 11:30:00 406.0 140.4 -34.0 131.5 -39.0 | 09-2023 11:00:00 09-2023 11:15:00 | 405.9 406.0 | 148.7 151.8 | -36.8 -36.6 | 139.4 142.8 | -42.1 -41.8 |
| 403.0 405.0 4 | 09-2023 11:30:00 | 406.0 405.8 | 140.4 128.3 127.3 | -34.0 -32.6 -31.3 | 131.5 120.1 119.2 | -39.0 -37.1 -35.9 |
| 07-09-2023 12:15:00 405.0 120.9 -30.0 113.4 -34.3 | 09-2023 12:15:00 | 405.6 405.0 | 127.3 120.9 | -30.0 | 113.4 | -34.3 |
| 07.09-2023 12:30:00 405.8 116.9 -29.7 110.1 -33.8 07.09-2023 12:45:00 405.4 118.3 -30.5 111.0 -34.6 | | 405.4 | 118.3 | -29.7 -30.5 | 111.0 | -34.6 |
| 0709-0231300:00 405.3 119.9 | 09-2023 13:00:00 09-2023 13:15:00 | 405.3 406.0 | 119.9 118.6 | -31.1 -33.1 | 112.1 110.9 | -35.5 -37.3 |
| 07.09-2023 13.00.0 406.0 127.4 34.8 119.4 -39.3 07.09-2023 13.45.00 406.0 133.4 -34.2 125.4 -39.0 | 09-2023 13:30:00 | 406.0 | 127.4 | -34.8 | 119.4 | -39.3 |
| 07-09-2023 14:00:00 406.0 147.9 -35.4 140.4 -40.1 | 09-2023 14:00:00 | 406.0 406.7 | 147.9 | -35.4 | 140.4 | -40.1 |
| 07-09/2023 141500 406.7 159.1 36.0 150.7 41.4 07-09/2023 141500 406.0 160.7 -3.40 151.7 -39.8 07-09/2023 144500 406.0 160.7 -3.40 151.7 -39.8 07-09/2023 144500 406.0 162.2 -37.0 152.5 -42.9 | 09-2023 14:30:00 | 406.0 | 160.7 162.2 | -34.0 -37.0 | 151.7 152.6 | -39.8 -42.9 |
| 07099203155000 406.0 160.3 38.0 150.6 43.9 9 070902031551500 406.2 174.0 43.3 163.5 49.3 163.5 49.3 1 | 09-2023 15:00:00 09-2023 15:15:00 | 406.0 | 160.3 | -38.0 -43.3 | 150.6 163.5 | -43.9 |
| 07-09-2023 15:45:00 406.0 181.9 42.3 170.6 490.0 | 09-2023 15:30:00 | 406.7 | 184.8 | 43.9 | 173.8 | -50.4 |

| | 07-09-2023 16:00:00 | 406.4 | 184.3 | -42.5 | 172.7 | -49.5 |
|---|--|----------------|----------------|----------------|----------------|----------------|
| | 07-09-2023 16:30:00 | 406.0 | 188.9 | -41.2 | 177.4 | -48.3 |
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| | 07-09-2023 17:15:00 | 407.0 | 184.9 | -48.9 | 173.2 | -55.4 |
| | | | | | | |
| | 07-09-2023 18:00:00 | 406.2 | 182.0 | -45.5 | 170.2 | -52.2 |
| | 07-09-2023 18:15:00 | 406.0 | 170.8 | -42.6 | 160.0 | -48.7 |
| | 07-09-2023 18:45:00 | 405.0 | 163.9 | -36.5 | 154.4 | -42.6 |
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| | 07-09-2023 19:30:00 | | | -37.9 | 151.0 | |
| | 07-09-2023 19:45:00 | 405.0 | 156.9 | -39.1 | 146.8 | -45.0 |
| | 07-09-2023 20:15:00 | 405.4 | 158.3 | -41.4 | 147.9 | -47.2 |
| | | | | | | |
| | 07-09-2023 21:00:00 | 405.0 | | -38.5 | 152.5 | -43.4 |
| | 07-09-2023 21:15:00 | 405.1 | | | | |
| Description Add Add Add Add Add Description Add Add Add | 07-09-2023 21:45:00 | 405.7 405.5 | 166.8 | -41.7 | 155.6 | -47.6 -47.9 |
| | 07-09-2023 22:00:00 | | 174.6 | -43.5 | 163.0 | |
| | 07-09-2023 22:15:00 07-09-2023 22:30:00 | 406.0 | 172.1 165.9 | -43.8 -41.1 | 160.4 | -50.2 -47.2 |
| PB220000 COUNTY COUNTY <thcounty< th=""> <thcounty< th=""> <thcounty<< td=""><td>07-09-2023 22:45:00</td><td>406.0</td><td>155.5</td><td>-40.2</td><td>144.7</td><td>-46.0</td></thcounty<<></thcounty<></thcounty<> | 07-09-2023 22:45:00 | 406.0 | 155.5 | -40.2 | 144.7 | -46.0 |
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| DescriptionAddAddAddAddAddAddBase and | 07-09-2023 23:30:00 | 405.0 | 160.3 | -40.2 | 149.1 | -46.5 |
| | 08-09-2023 00:00:00 | | | | | |
| Description <td></td> <td>406.0</td> <td>170.3</td> <td>-45.0</td> <td>158.3</td> <td>-51.4</td> | | 406.0 | 170.3 | -45.0 | 158.3 | -51.4 |
| Section 19.0Section 19.0Sec | 08-09-2023 00:30:00 | 406.0 | 174.2 | -44.9 | 162.1 | |
| PARRADADDADDADDADDADDPRADEPRADEPDDADDADDADDPRADEPDDADD | 08-09-2023 01:00:00 | 406.0 | | -43.4 | | |
| PPP <th< td=""><td></td><td>406.0</td><td>172.0</td><td>-44.5</td><td>160.1</td><td>-51.1</td></th<> | | 406.0 | 172.0 | -44.5 | 160.1 | -51.1 |
| BBB <th< td=""><td>08-09-2023 01:45:00</td><td>407.0</td><td>183.3</td><td>-48.2</td><td>170.4</td><td>-55.1</td></th<> | 08-09-2023 01:45:00 | 407.0 | 183.3 | -48.2 | 170.4 | -55.1 |
| SectorAb.Ab.Ab.Ab.Ab.Ab.Ab.SectorAb.Ab.Ab.Ab.Ab.Ab.S | 08-09-2023 02:00:00 | 407.0 | 180.2 | -49.3 | 167.5 | -56.0 .56.1 |
| Section< | 08-09-2023 02:30:00 | 407.0 | 185.1 | -51.3 | 171.9 | -58.3 |
| BBB <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td></th<> | | | | | | |
| | 08-09-2023 03:15:00 | 407.3 | 196.3 | -54.0 | 182.4 | |
| Section Site | 08-09-2023 03:30:00 08-09-2023 03:45:00 | | | | 181.2 | |
| | 08-09-2023 04:00:00 | 407.8 | 188.4 | -55.1 | 174.5 | -62.0 |
| B BB2 D1 BB4 A43 B B D3 D3 D34 D34 D44 B B D30 D31 D31 D31 D44 B B D30 D31 D31 D31 D41 B D30 D31 D31 D31 D31 D41 B D30 D31 D31 D31 D31 D31 B D30 D31 D31 D31 D31 | 08-09-2023 04:15:00 | 407.6 | 192.6 | | 178.6 | |
| Sec. Sec. <th< td=""><td>08-09-2023 04:45:00</td><td>408.0</td><td></td><td></td><td></td><td></td></th<> | 08-09-2023 04:45:00 | 408.0 | | | | |
| B | | 408.0 | 205.3 | -56.8 | 190.7 | -64.5 |
| B | 08-09-2023 05:30:00 | 408.0 | 212.7 | -54.3 | 197.8 | -62.7 |
| | 08-09-2023 05:45:00 | 407.9 | 225.4 230.9 | -53.7 -51.4 | 209.7 | -62.7 -60.8 |
| B B D <thd< th=""> <thd< th=""> <thd< th=""> <thd< th=""></thd<></thd<></thd<></thd<> | 08-09-2023 06:15:00 | 407.7 | 235.7 | -50.9 | 219.4 | -60.6 |
| B B B D D D B B D D D D D D D D D D D D | | | | 48.1 | | |
| | 08-09-2023 07:00:00 | 407.0 | 244.8 | -48.0 | 228.2 | |
| B | | | | | | |
| | 08-09-2023 07:45:00 | 407.0 | 248.2 | -47.7 | 231.5 | -58.4 |
| Box | 08-09-2023 08:00:00 | 407.0 | 245.8 | 47.5 | 229.1 | |
| 999.509 46.7 24.3 44.6 24.1 5.1 99.509 90.7 21.1 44.4 24.1 0.1 99.509 40.7 21.1 44.4 24.1 0.1 99.509 40.7 21.1 44.4 24.1 0.1 99.509 40.7 21.7 44.4 24.1 0.1 99.509 40.7 21.7 44.4 24.1 0.1 99.509 40.7 21.7 44.4 24.1 0.1 99.509 40.7 21.2 44.1 1.1 4.1 99.509 40.7 12.3 40.2 11.1 4.1 99.509 40.7 13.1 40.1 10.1 4.1 99.509 40.7 13.1 40.1 10.1 4.1 99.509 40.7 13.1 40.1 10.1 4.1 99.509 40.7 13.1 40.1 10.1 4.1 99.509 40.7 1 | 08-09-2023 08:30:00 | 407.0 | | -46.4 | | |
| 999.09.09.09 40.7 20.43 40.6 20.13 40.7 899.09.09.00 40.1 20.12 44.4 20.13 44.4 899.09.09.00 40.1 20.13 44.4 20.14 40.1 899.09.09.00 40.1 20.13 44.4 20.14 20.14 899.09.09.00 40.7 20.17 40.4 20.14 40.1 899.09.00 40.7 20.17 40.4 40.1 40.1 899.09.00 40.7 40.1 40.1 40.1 40.1 899.09.10.00 40.7 40.2 40.3 10.7 40.1 899.09.10.00 40.7 40.2 40.3 40.1 40.1 899.09.10.00 40.7 40.1 40.1 40.1 40.1 40.1 899.09.10.00 40.7 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1 4 | | | 250.3 | -45.9 | 233.3 | -56.7 |
| B = 0.0000 46.1 10.11 44.0 10.11 10.11 0 = 0.0000 40.1 10.1 40.1 10.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 40.1 0 = 0.00000 40.1 </td <td>08-09-2023 09:15:00</td> <td>407.0</td> <td>234.9</td> <td>-47.6</td> <td>218.9</td> <td>-57.7</td> | 08-09-2023 09:15:00 | 407.0 | 234.9 | -47.6 | 218.9 | -57.7 |
| B = 0.0000 46.1 10.11 44.0 10.11 10.11 0 = 0.0000 40.1 10.1 40.1 10.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 0 = 0.0000 40.1 40.1 40.1 40.1 40.1 40.1 0 = 0.00000 40.1 </td <td>08-09-2023 09:30:00</td> <td>407.0</td> <td>229.6</td> <td>-46.9</td> <td>213.8</td> <td>-56.6</td> | 08-09-2023 09:30:00 | 407.0 | 229.6 | -46.9 | 213.8 | -56.6 |
| 98.9.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2 | 08-09-2023 10:00:00 | 406.8 | 212.2 | -44.9 | 197.6 | -53.8 |
| 8.8.8.20.863 403 403 404 444 6.8.20.1158 403 131 404 441 6.8.20.1158 403 335 131 441 6.8.20.1158 403 335 131 441 6.8.20.1158 403 335 131 443 6.8.20.1158 407 1307 443 146 441 6.8.20.1158 407 1307 443 146 441 6.8.20.1158 407 1307 443 146 441 6.8.20.1158 407 1314 444 441 441 6.8.20.1158 401 1314 443 144 431 6.8.20.1158 401 1314 443 131 431 6.8.20.1158 403 1314 443 131 431 6.8.20.1158 403 1314 141 1413 141 6.8.20.1158 403 1314 441 131 441 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| edds 2011152 eD0 D32 eD2 H31 H41 eD4 64 92 2011920 401 103 103 104 44 64 92 2011920 401 103 101 144 446 64 92 2011920 401 103 104 146 461 64 92 2011920 401 103 414 1464 401 64 92 2011920 401 103 413 1461 401 64 92 2011920 401 101 413 141 401 64 92 2011920 401 101 414 401 401 64 92 2011920 403 101 414 401 401 401 64 92 2011920 403 101 101 413 414 401 401 64 92 2011920 401 101 414 401 401 401 401 401 401 401 401 401 401 401 401 401 401 4 | 08-09-2023 10:45:00 | 407.0 | 179.2 | -40.0 | 166.7 | -47.4 |
| end end <td>08-09-2023 11:00:00</td> <td></td> <td></td> <td></td> <td></td> <td></td> | 08-09-2023 11:00:00 | | | | | |
| B db 201 1960 401 101 < | 08-09-2023 11:30:00 | 407.0 | 148.0 | -39.5 | 137.0 | -45.3 |
| ends 2011960 effet | 08-09-2023 11:45:00 | 407.0 | 142.9 | -38.9 | 132.4 | -44.4 |
| ends 2011960 effet | 08-09-2023 12:05:00 | 407.1 | 145.8 | -32.1 -41.8 | 135.1 140.6 | -45.0 |
| Beb 2011500 401 184.5 44.6 146.4 46.0 Beb 2011500 401.0 181.1 44.5 146.4 45.1 Beb 2011500 401.0 181.1 47.7 146.4 45.1 Beb 2011500 401.0 181.1 47.7 146.4 45.1 Beb 2011500 401.0 181.5 44.1 146.0 45.1 Beb 2011500 401.0 17.5 44.1 146.0 45.1 Beb 2011500 401.0 17.5 44.1 146.0 45.1 Beb 2011500 47.2 187.5 47.3 17.1 45.1 Beb 2011500 47.2 187.5 47.3 17.1 45.1 Beb 2011500 47.0 28.3 47.3 17.3 45.1 Beb 2011500 47.0 28.3 47.3 17.3 45.1 Beb 2011500 47.0 28.4 47.1 45.1 45.1 Beb 2011500 47.0 28.4 47.1 45.1 | 08-09-2023 12:30:00 | | 160.7 | -42.4 | 148.8 | -48.8 |
| | 08-09-2023 13:00:00 | | 158.6 | | 146.6 | |
| 600 601 603 <td>08-09-2023 13:15:00</td> <td>407.7</td> <td>154.3</td> <td>-46.6</td> <td>142.4</td> <td>-52.6</td> | 08-09-2023 13:15:00 | 407.7 | 154.3 | -46.6 | 142.4 | -52.6 |
| 96.9.201450 446 1564 45.0 66.9.2014500 67.3 17.2 44.5 153.0 41.1 66.9.2014500 67.3 17.2 44.5 153.0 41.1 66.9.2014500 67.0 184.6 41.1 171.1 63.4 66.9.2014500 47.4 183.1 173.3 43.1 173.3 43.1 66.9.2014500 47.1 184.6 43.1 174.4 45.7 66.9.2014500 47.1 184.6 43.1 174.4 45.7 66.9.2014500 47.0 274.4 45.7 45.1 44.6 173.1 43.1 66.9.2014500 47.0 274.4 45.7 45.1 45.1 45.1 45.1 66.9.2014500 47.0 26.4 44.5 27.5 45.1 45.1 66.9.2014500 46.2 28.3 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 45.1 | 08-09-2023 13:45:00 | 408.3 | 152.4 | -47.7 | 140.4 | -53.5 |
| | | | | | | |
| 600.2031000 6074 102 441 171 431 600.20311450 4072 1051 413 1134 3134 600.20311450 4072 1051 413 1134 423 600.20311450 4071 1064 1164 4151 1164 451 600.20310450 4071 2056 4137 2214 421 600.20310450 4070 2056 4137 2224 421 600.20310450 4070 2056 4137 2224 421 600.2031050 4070 2051 4137 2214 421 600.2031050 4057 2051 4137 2213 431 600.2031050 4057 2015 4137 2214 414 600.2031050 4052 2014 416 2210 411 411 600.2031050 4052 2014 416 212 | 08-09-2023 14:30:00 | | 172.6 | -46.9 | 159.3 | |
| 666.2031530 679 1863 413 1713 451 669.2031540 471 1863 413 1713 451 669.2031540 471 1844 445 1814 457 669.2031540 471 1844 445 1814 457 669.2031540 470 2964 447 2324 497 669.2031560 470 2964 447 2324 493 669.2031560 470 2664 445 2314 493 669.20317660 667 2664 445 2314 493 669.20317660 667 2664 453 2314 431 669.20311600 667 2054 463 2313 431 431 669.20311600 663 8011 313 314 414 441 669.20311600 663 8031 8033 8031 8031 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| θ <td>08-09-2023 15:15:00</td> <td>407.0</td> <td>188.6</td> <td>-47.1</td> <td>174.3</td> <td>-55.8 -55.1</td> | 08-09-2023 15:15:00 | 407.0 | 188.6 | -47.1 | 174.3 | -55.8 -55.1 |
| 60.6.23145.0 470 203 400 300 411 $60.8.23145.0$ 470 203 441 204 311 $60.8.23175.00$ 470 2451 441 2014 311 $60.8.23175.00$ 470 2451 441 2014 311 $60.8.23175.00$ 470 2451 441 2013 311 $60.8.23175.00$ 4612 2164 413 2216 413 $60.8.23175.00$ 4612 2164 413 2203 413 411 $60.8.23115.00$ 6012 2164 413 2203 411 411 $60.8.23115.00$ 6012 2014 312 411 411 411 $60.8.23115.00$ 603 2014 313 311 411 411 $60.8.23115.00$ 603 1013 313 1014 411 $60.8.23115.00$ 603 1013 | 08-09-2023 15:30:00 | 407.2 | 187.5 | -47.8 | 173.0 | |
| 60.6.23145.0 470 203 400 300 411 $60.8.23145.0$ 470 203 441 204 311 $60.8.23175.00$ 470 2451 441 2014 311 $60.8.23175.00$ 470 2451 441 2014 311 $60.8.23175.00$ 470 2451 441 2013 311 $60.8.23175.00$ 4612 2164 413 2216 413 $60.8.23175.00$ 4612 2164 413 2203 413 411 $60.8.23115.00$ 6012 2164 413 2203 411 411 $60.8.23115.00$ 6012 2014 312 411 411 411 $60.8.23115.00$ 603 2014 313 311 411 411 $60.8.23115.00$ 603 1013 313 1014 411 $60.8.23115.00$ 603 1013 | 08-09-2023 16:00:00 | 407.1 | | | | |
| $\overline{0}$ | 08-09-2023 16:15:00 | 407.0 | 206.3 | -49.0 | 190.7 | -57.8 |
| θ_{10} θ_{10} θ_{11} θ_{11} θ_{12} θ_{11} | 08-09-2023 16:45:00 | 407.0 | 239.6 | -48.7 | 222.4 | -59.2 |
| 0.002317300 0.67 246 446 2160 343 0.002311400 0.01 246 446 2160 343 0.002311400 0.01 2353 444 2032 331 0.002311400 0.01 2153 444 2032 331 0.002311400 0.013 2115 3145 0.011 411 0.002311400 0.013 0.0111 <td< td=""><td>08-09-2023 17:00:00 08-09-2023 17:15:00</td><td>407.0</td><td>245.1 240.2</td><td>-48.6 .49.2</td><td>227.5</td><td>-59.4</td></td<> | 08-09-2023 17:00:00 08-09-2023 17:15:00 | 407.0 | 245.1 240.2 | -48.6 .49.2 | 227.5 | -59.4 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 08-09-2023 17:30:00 | 406.7 | 245.6 | -48.6 | 228.0 | -59.2 |
| 60.6 2011450 60.7 255 $d.44$ 290.2 $d.31$ $60.6 2011450$ 60.7 20.1 0.7 0.11 4.1 $60.6 2011450$ 60.6 20.1 30.7 10.1 4.1 $60.6 2011450$ 60.6 20.1 31.4 31.4 4.1 $60.6 2011450$ 60.6 20.1 31.7 10.1 4.1 $60.6 2011450$ 60.6 10.1 31.4 31.4 41.4 $60.6 2011450$ 60.6 10.3 31.4 10.7 41.1 $60.6 2011450$ 60.6 10.3 31.3 10.1 41.5 $60.6 2011450$ 60.6 10.3 31.3 10.7 41.3 $60.6 2011450$ 60.5 10.3 10.3 10.7 41.5 $60.6 2011450$ 60.5 10.3 10.3 10.7 41.5 $60.6 2011400$ 60.5 10.3 10.3 10.7 10.5 | | | | | | |
| $666, 621145.0$ 663 2041 370 1813 44_1 $666, 821145.0$ 663 201 370 111 417 $666, 821145.0$ 663 1051 437 111 447 $666, 821145.0$ 656 1054 437 111 447 $666, 821145.0$ 656 1051 433 1071 441 $666, 821145.0$ 656 1051 436 1111 441 $666, 821145.0$ 656 1051 456 4131 441 $666, 821145.0$ 656 1051 3131 1054 445 $666, 821145.0$ 656 1051 3131 1053 661 $666, 821145.0$ 653 1053 1031 1053 641 671 616 $666, 821145.0$ 653 1053 413 1053 616 616 616 $666, 821145.0$ 1053 1013 | 08-09-2023 18:15:00 | 405.7 | 225.5 | -42.4 | 209.2 | -52.3 |
| 90.68, 2033 9200 66.6 201.1 36.4 184.4 46.4 $90.68, 2033 195.0$ 46.3 30.3 16.3 41.3 41.3 $90.68, 2033 195.0$ 46.6 103.5 31.3 16.3 41.3 $90.68, 2033 195.0$ 46.6 103.5 31.5 166.3 41.3 $90.68, 2033 195.0$ 46.6 102.5 31.5 166.3 41.5 $90.68, 203, 205.0$ 46.6 103.6 31.5 106.7 41.6 $90.68, 203, 205.0$ 46.0 103.4 $0.73.3$ 116.4 45.7 $90.68, 203, 205.0$ 46.0 103.4 $0.73.3$ 116.4 45.7 $90.68, 203, 116.0$ 46.3 103.4 103.4 107.6 45.7 $90.68, 203, 116.0$ 46.3 103.4 43.3 176.4 45.6 $90.68, 203, 116.0$ 46.3 103.4 43.3 176.4 45.6 $90.68, 203, 116.0$ 46.7 1 | 08-09-2023 18:45:00 | 405.0 | 204.1 | -37.0 | 189.3 | -46.1 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 08-09-2023 19:00:00 | 405.0 | 203.1 | -36.4 | 188.4 | -45.4 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 08-09-2023 19:30:00 | 405.0 | 199.7 | -35.7 -34.9 | 185.1 181.2 | -43.8 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 08-09-2023 19:45:00 | 405.0 | | | | -44.3 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 08-09-2023 20:15:00 | 405.0 | 176.2 | -36.6 | 163.1 | -44.3 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 08-09-2023 20:30:00 | | 181.4 | -37.3 | 168.7 | -44.9 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 08-09-2023 21:00:00 | 405.0 | 189.8 | | | -45.6 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 08-09-2023 21:15:00 | | 190.3 | -39.1 | 176.0 | 47.2 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 08-09-2023 21:45:00 | 405.3 | 183.5 | -41.2 | 172.2 | -47.8 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 08-09-2023 22:00:00 08-09-2023 22:15:00 | 405.7 | 185.9 | | 176.0 | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 08-09-2023 22:30:00 | 405.7 | 187.7 | -41.2 | 175.8 | -48.2 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | -41.8 -42.7 | 175.1 | |
| 616.0 2013450 645.0 930.1 441.1 1163.1 451.2 66.0 2013450 646.0 100.1 46.7 116.0 45.1 66.0 2013450 646.0 100.1 46.7 116.0 45.1 66.0 2013050 646.0 100.1 46.7 116.0 45.1 66.0 2013050 646.0 100.3 46.4 106.5 45.1 66.0 2013050 646.0 100.3 44.4 106.5 45.0 66.0 2013050 646.0 100.3 40.2 116.0 65.1 66.0 2013050 646.0 100.3 40.3 100.0 65.1 66.0 2013050 646.0 150.3 61.3 100.0 63.1 66.0 2013050 646.0 150.3 61.3 100.0 63.1 66.0 2013050 647.0 157.3 64.1 100.4 64.1 66.0 2013050 67.0 107.3 100.4 100.4 11.1 66.0 2013050.0 47.0 107.3 <t< td=""><td>08-09-2023 23:15:00</td><td>405.7</td><td>183.8</td><td>-41.8</td><td>171.5</td><td>-48.8</td></t<> | 08-09-2023 23:15:00 | 405.7 | 183.8 | -41.8 | 171.5 | -48.8 |
| 909.03200000 66.0 191.3 44.7 175.2 44.6 909.03200000 66.0 195.4 44.7 111.6 41.3 909.02200000 66.0 195.4 44.7 111.6 41.3 909.02200000 66.0 195.2 44.4 116.3 45.6 909.02200000 66.0 195.2 45.2 174.8 45.6 909.02200000 66.0 195.2 45.2 174.8 45.7 909.02200000 66.0 195.2 45.2 174.8 45.7 909.02200000 66.4 196.3 0.3.1 114.0 9.9 909.022000000 40.9 197.3 43.1 115.4 44.1 909.022000000 40.9 197.3 43.4 116.4 44.1 909.022000000 40.9 197.3 43.4 116.4 44.1 909.022000000 40.9 197.3 43.4 116.4 44.1 909.022000000 40.9 197.3 43.4 | 08-09-2023 23:30:00 08-09-2023 23:45:00 | | | | | |
| 00.9.22103200 466 9455 475 1116 65.1 00.90.22103200 466.0 1913 44.4 1063 46.0 45.1 00.90.22103200 46.0 1913 44.4 1063 46.0 45.1 00.90.22103200 46.0 1933 44.4 1063 46.0 45.1 00.90.22103200 46.0 1933 43.1 131.3 45.1 00.90.22103500 46.0 195.3 43.2 131.3 46.1 00.90.22103500 46.4 196.2 43.3 181.3 46.1 00.90.22103500 46.4 199.2 43.3 181.3 46.1 00.90.22103500 40.0 197.3 45.4 132.4 41.1 00.90.22103500 40.7 197.7 45.4 134.4 41.5 00.90.22103500 46.5 136.4 136.4 131.4 41.5 00.90.22103500 46.7 197.7 45.4 132.4 45.5 00.90.22103 | 09-09-2023 00:00:00 | 406.0 | 191.8 | -46.7 | 179.2 | -54.0 |
| 090, 82301,020 66.0 192.2 49.2 174.8 45.5 090, 82301,050 66.0 181.7 63.1 181.3 51.5 090, 82301,050 46.4 181.7 63.1 181.3 63.1 090, 82301,050 46.4 180.3 63.1 181.3 60.1 090, 82301,050 46.4 180.3 63.1 181.4 46.1 090, 8230,0500 407.0 197.4 43.2 184.4 41.1 00, 8230,0500 407.0 197.4 43.2 184.4 41.1 00, 8230,0500 407.0 197.4 43.2 184.4 41.1 00, 8230,0500 407.0 197.5 45.1 184.4 41.1 00, 8230,0500 407.0 197.5 45.4 184.7 41.1 00, 8230,0500 46.7 197.2 45.5 154.4 45.3 00, 8230,0500 407.0 20.1 45.5 154.4 45.5 00, 8230,05000 407.0 20.1 | 09-09-2023 00:15:00 09-09-2023 00:30:00 | 406.0 406.0 | 192.4 194 5 | -46.7 | 181.0 | -53.3 |
| 0:00:201100:00 46:6 932.1 49.2 174.8 45.5 0:00:20110:00 46:6 195.1 40.2 174.8 45.5 0:00:20110:00 46:0 195.1 10.1 110.0 45.1 0:00:20210:45:0 46:0 195.1 10.1 110.0 45.1 0:00:20210:45:0 46:0 195.1 10.1 110.0 45.1 0:00:20210:45:0 46:0 197.7 43.2 112.4 41.1 0:00:20210:45:0 47.9 197.3 43.1 112.4 41.1 0:00:20210:45:0 47.9 197.3 43.4 112.4 41.1 0:00:20210:45:0 47.9 197.3 45.4 112.4 41.1 0:00:20210:45:0 47.9 197.3 45.4 112.4 41.1 0:00:20210:45:0 46.9 198.4 46.0 112.7 41.3 0:00:20210:50:0 47.9 202.1 35.5 155.4 45.5 0:00:20210:50:0 47.9 202.1 | 09-09-2023 00:45:00 | 406.0 | 193.9 | | | |
| 000 000 <td>09-09-2023 01:15:00</td> <td>406.0</td> <td>192.2 194.7</td> <td>-50.2</td> <td>182.9</td> <td>-56.5 -57.0</td> | 09-09-2023 01:15:00 | 406.0 | 192.2 194.7 | -50.2 | 182.9 | -56.5 -57.0 |
| 0x900000000000000000000000000000000000 | 09-09-2023 01:30:00 | 406.0 | 195.3 | -51.2 | 181.0 | -59.1 |
| 099-02301550 4079 975 44.1 1B4 44.1 099-0210460 470 201.3 65.6 161.3 45.0 099-0210460 470 201.3 65.6 161.3 45.0 099-0210460 470 201.3 65.6 161.3 45.0 099-0210460 470 201.2 65.5 154.4 41.5 099-02101500 470 201.2 65.5 154.4 41.5 099-02101500 470 201.2 65.5 154.4 45.5 099-02101500 470 201.2 65.3 154.4 45.5 099-02101500 470 201.3 201.3 164.4 45.5 | 09-09-2023 01:45:00 09-09-2023 02:00:00 | 406.4 407.0 | 198.0 197.4 | -52.3 -53.2 | 183.3 182.8 | -60.1 -61.1 |
| 090%20210350 407.0 197.9 55.4 182.8 43.1 090%20210350 407.0 197.9 55.4 182.7 43.9 090%20210350 407.0 201.2 55.5 185.4 43.5 090%202103500 407.3 201.2 55.5 185.4 43.5 090%202103500 407.3 201.4 56.4 188.2 44.5 090%202103500 407.3 201.4 56.4 188.2 44.5 090%202103500 407.3 203.9 57.3 187.4 45.5 090%202103500 407.0 203.3 57.8 188.4 46.0 | 09-09-2023 02:15:00 | 407.0 | 197.5 | -54.1 | 182.4 | -61.8 |
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| 09/07/023/03/00 407.3 204.1 55.6 188.2 -64.5 09/09/023/03/00 407.0 203.9 57.3 187.4 -65.6 09/09/023/03/04/000 407.0 203.9 57.3 187.4 -65.6 09/09/023/03/04/000 407.0 203.3 57.8 186.8 -66.0 | 09-09-2023 03:00:00 | 406.9 | 198.6 | -56.0 | 182.7 | -63.9 |
| 09:09:2023 03:45:00 407.0 2023 9 57.3 187.4 -65.6 09:09:2023 04:00:0 407.70 203.3 -57.8 186.8 -66.0 | 09-09-2023 03:30:00 | 407.3 | 204.1 | -56.4 | 188.2 | -64.5 |
| 09-09-023 043200 407.0 203.3 57.8 186.8 -66.0 09-09-023 043200 407.5 206.5 57.9 189.6 -66.2 09-09-023 043200 407.1 213.5 57.6 196.8 -46.7 | 09-09-2023 03:45:00 | 407.0 | 203.9 | -57.3 | 187.4 | -65.6 |
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| 09-09-2023 17:30:00 | 407.1 | 232.3 | -40.6 | 216.8 | -51.0 |
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| 09-09-2023 18:15:00 | 406.3 | 212.1 | -33.4 | 197.6 | -43.3 |
| 09-09-2023 18:30:00 | 405.6 | 211.8 | -29.5 | 198.2 | -39.2 |
| 09-09-2023 18:45:00 | 405.2 | 205.5 | -28.9 | 190.9 | -38.9 |
| 09-09-2023 19:00:00 | 405.2 | 208.4 | -29.2 | 193.5 | -39.3 |
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| 09-09-2023 19:45:00 | 405.0 | | -29.6 | 195.3 | -39.4 |
| 09-09-2023 20:00:00 | 405.0 | 207.0 | -30.4 | 192.0 | -40.4 |
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| 09-09-2023 20:45:00 | 405.0 | 209.7 | -28.5 | 193.6 | -39.1 |
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| 10-09-2023 02:45:00 | 406.8 | 217.9 | -43.4 | 203.5 | -52.4 |
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| 10-09-2023 11:00:00 10-09-2023 11:15:00 10-09-2023 11:30:00 | 407.5 | 139.4 140.7 138.6 | -33.9 -34.4 -32.1 | 137.4 138.7 136.9 | -36.6 |
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| 10-09-2023 18:00:00 | 407.2 | 146.7 146.7 137.3 | -39.4 | 134.7 135.7 127.7 | -45.5 |
| 10-09-2023 18:15:00 10-09-2023 18:30:00 | 406.2 405.0 | 153.2 | -35.6 -34.1 | 142.8 | -41.1 -40.4 |
| 10-09-2023 18:45:00 | 404.5 | 185.0 | -32.5 | 176.1 | -38.9 |
| 10-09-2023 19:00:00 | 404.0 | 202.3 | -31.5 | 193.6 | -38.0 |
| 10-09-2023 19:15:00 10-09-2023 19:30:00 | 404.0 403.6 | 214.9 218.6 | -31.0 -32.5 | 205.7 | -38.1 -40.4 |
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| 10-09-2023 22:00:00 | 403.9 | 218.0 | -32.7 | 204.6 | -42.2 |
| 10-09-2023 22:15:00 | 404.0 | 219.6 | -31.1 | 206.5 | -40.7 |
| | 404.0 | 216.2 | -29.3 | 202.9 | -38.9 |
| 10-09-2023 22:30:00 | | 214.0 | -32.1 | 200.7 | -41.5 |
| 10-09-2023 22:30:00 10-09-2023 22:45:00 | 403.8 404.0 | | | | .42.3 |
| 10-09-2023 22:30:00 | 403.8 404.0 404.0 404.0 | 205.8 201.0 199.0 | -33.2 -32.0 -31.1 | 192.6 187.8 185.6 | 42.3 41.2 40.3 |



9 October 2023 at 12:57

Fwd: Low Voltage in RTPS-Ranchi Line #3 (400KV)

1 message

DHARMADAS TRIPATHI <dharmadas.tripathi@dvc.gov.in>

To: ADITI SEN PRADHAN <aditi.senpradhan@dvc.gov.in>, dvcsldc <dvcsldc@gmail.com>

Cc: DEBI PRASAD PUITANDI <debiprasad.puitandi@dvc.gov.in>, SANJAY KUMAR SHARMA <sanjay.sharma@dvc.gov.in>, VINAY KUMAR <vinay.kumar1@dvc.gov.in>

Respected Madam/ Sir,

CTC team investigated the problem of low voltage , recorded in the energy meters of 400 KV RTPS-Ranchi Ckt# 3 , installed at RTPS end. It was found that the recorded voltage in the energy meters, connected in the said line (both main & check ; Main meter: SI No. 1260-A , make : Genus & Check Meter : SI No. 1267-A , make : Genus) was erroneous in different time as per available load survey record due to trouble in PT circuitry. The trouble of PT circuitry has been rectified at around 16.30 hrs of 06/10/23. Presently recording in the meters are in order.

Regards Dharmadas Tripathi DGM(E), CTC, DVC, Maithon 9434745955

From: "VINAY KUMAR" <vinay.kumar1@dvc.gov.in> To: "ADITI SEN PRADHAN" <aditi.senpradhan@dvc.gov.in> Cc: "DHARMADAS TRIPATHI" <dharmadas.tripathi@dvc.gov.in>, "DHEERAJ KUMAR" <dheeraj.kumar@dvc.gov.in> Sent: Monday, October 9, 2023 11:48:18 AM Subject: Fwd: Low Voltage in RTPS-Ranchi Line #3 (400KV)

Respected Madam,

Trailing mail is being forwared for kind perusal regarding the observation and rectification of low voltage issues recored by meter of 400 KV RTPS-Ranchi PGCIL L#3. An excel sheet of laod survey (01 Sept 23 to 06 Oct 23) of meter HT2200265 (SEMA PH-II Meter), which is connected with the same PT is attached for your ready reference.

सादर,

विनय कुमार प्रबंधक,सीटीसी, दाघानि, मैथन

From: "DHEERAJ KUMAR" <dheeraj.kumar@dvc.gov.in> To: "VINAY KUMAR" <vinay.kumar1@dvc.gov.in> Sent: Saturday, October 7, 2023 1:21:29 PM Subject: Low Voltage in RTPS-Ranchi Line #3 (400KV)

Dear Sir,

Metering Cell, CTC visited RTPS 400 kV S/Y control room to check the problem of intermittent low voltage in the meter of 400 KV RTPS-Ranchi L#3.

The following points were observed during the investigation.

(i) Instantaneous voltage in Meter found in order.

(ii) During analysis of meter reading data, it was found that intermittent low voltage was recorded in the meter in Y-Phase .

(iii) After thorough investigation, it was found that the connection at JB for Y-Ph Metering Core-3 of CVT Line #3 (400KV RTPS-Ranchi Line) was slightly loose.

(iv) Loose connections were tightened by the maintenance team.

(v) Normal Metering resumed at 16.30 hrs.

(vi) The RTPS team was requested to observe the meter voltage for the next several days and accordingly send the meter reading data to the Metering cell and SLDC.

सादर धीरज कुमार सहायक प्रबंधक (विद्युत), केंद्रीय परीक्षण वृत,दा°घा°नि°,मैथन दूरभाष:९१९९४६७०५७

Annexure-I

SUMMARY OF DEVIATION CHARGE RECEIPT AND PAYMENT STATUS

BILL UPTO 17-12-2023 (W-38 of FY 2023-24) AS on 04-01-24

| | | A0 0 | n 04-01-24 | | Fig | gures in ₹ Lakhs | |
|------------------|--------------------------------|--------------------|---------------------|----------------------|----------------|----------------------------|----------------------|
| CONSTITUENTS | Net outstanding for 2022-23 | Receivable by Pool | Received by Pool | Payable From Pool | Paid From Pool | Outstanding for 2023-24 | Total Outstanding |
| BSPTCL | 2,547.54813 | 12,809.41878 | 0.00000 | 12,867.47986 | 452.65296 | 394.59188 | 2,942.14001 |
| JUVNL | 0.00000 | 8,043.27582 | 1,648.26700 | 941.36446 | 0.00000 | 5,453.64436 | 5,453.64436 |
| DVC | 0.00000 | 9,608.88026 | 9,012.86946 | 2,594.32994 | 2,235.21112 | 236.89198 | 236.89198 |
| GRIDCO | 0.00000 | 2,658.76497 | 2,634.97373 | 14,516.57181 | 13,496.31624 | -996.46433 | -996.46433 |
| WBSETCL | 0.00000 | 2,049.43888 | 2,350.10270 | 23,985.64043 | 22,654.10917 | -1,632.19508 | -1,632.19508 |
| Sikkim | 686.22267 | 2,184.96729 | 0.00000 | 576.63110 | 0.00000 | 1,608.33619 | 2,294.55886 |
| NTPC | 0.00000 | 32,206.80605 | 29,539.09921 | 2.57267 | 2.57267 | 2,667.70684 | 2,667.70684 |
| NHPC | 0.00000 | 3.09535 | 1.37824 | 652.72566 | 650.88953 | -0.11902 | -0.11902 |
| MPL | 0.00000 | 174.64275 | 45.93437 | 1,599.75705 | 1,171.27708 | -299.77159 | -299.77159 |
| APNRL | 0.00000 | 301.72179 | 225.66132 | 314.53112 | 256.15844 | 17.68779 | 17.68779 |
| CHUZACHEN | 0.00000 | 185.58206 | 179.92317 | 95.51565 | 90.66747 | 0.81071 | 0.81071 |
| NVVN-BD | 0.00000 | 952.06172 | 926.13392 | 1,977.20402 | 1,955.98030 | 4.70408 | 4.70408 |
| GMR | 0.00000 | 298.69872 | 210.66919 | 127.26576 | 83.73027 | 44.49404 | 44.49404 |
| JITPL | 0.00000 | 983.75778 | 704.73330 | 509.13235 | 367.90999 | 0.00000 | 0.00000 |
| TPTCL (Dagachu) | 0.00000 | 280.45026 | 276.22641 | 853.78493 | 826.88566 | -22.67542 | -22.67542 |
| JLHEP | 0.00000 | 172.23723 | 147.90945 | 420.32719 | 386.79111 | -9.20830 | -9.20830 |
| NVVN-NEPAL | 0.00000 | 5,452.46995 | 5,283.52588 | 1,560.69187 | 1,535.57136 | 143.82356 | 143.82356 |
| BRBCL | 0.00000 | 750.76718 | 750.56963 | 91.77676 | 91.57921 | 0.00000 | 0.00000 |
| PGCIL SASARAM | 0.00000 | 46.60435 | 46.60435 | 6.02753 | 6.02753 | 0.00000 | 0.00000 |
| TUL (Teesta-III) | 0.00000 | 2,604.40881 | 2,520.38392 | 610.85731 | 526.83242 | 0.00000 | 0.00000 |
| Dikchu | 0.00000 | 356.14275 | 354.27064 | 637.27191 | 635.39982 | 0.00002 | 0.00002 |
| PGCIL-Alipurduar | 0.00000 | 42.38497 | 40.18180 | 6.19342 | 5.82084 | 1.83059 | 1.83059 |
| Tashiding(THEP) | 0.00000 | 40.70943 | 20.27364 | 746.45867 | 715.95686 | -10.06602 | -10.06602 |
| RONGNICHU | 0.00000 | 28.79760 | 14.32655 | 416.69036 | 394.72962 | -7.48969 | -7.48969 |
| NVVN Bhutan | 0.00000 | 344.85483 | 342.04881 | 284.25622 | 240.13680 | -41.31340 | -41.31340 |
| ECR | 0.00000 | 200.96288 | 200.73579 | 303.05416 | 302.82707 | 0.00000 | 0.00000 |
| Total | 3,233.77080 | 82,781.90246 | 57,476.80248 | 66,698.11221 | 49,086.03354 | 7,555.21919 | 10,788.98999 |

| arat | Rh: | IND | |
|------|-----|-----|--|
| irat | впа | IND | |

| Receivable: | Receivable by ER | Payable: | Payable by ER POOL |
|---------------------|------------------|-----------------|--------------------|
| Received: | Received by ER P | Paid: | Paid by ER POOL |
| '- ve' Payable by E | R pool | '+ ve' Receivab | ble by ER pool |

<u> Annexure - II</u>

STATUS OF REACTIVE CHARGES

AS ON 04.01.23

Figures in ₹ Lakhs Outstanding Amount Receivable(+Ve) / Name of Parties Paid Amount by pool **Receivable Amount by pool Received Amount by pool** Payable Amount by pool Payable by pool(-Ve) Bhutan 24.59 24.59 3.28 3.28 0.00 5.53 1.93 Bangladesh 5.53 1.93 0.01 Nepal 29.20 4.00 29.20 4.00 0.00 BSPHCL 173.04 114.52 69.24 76.79 50.97 JUVNL 325.40 310.35 3.54 0.00 11.51 DVC 19.18 18.66 51.24 -8.47 42.24 GRIDCO 202.78 202.78 62.43 -13.79 76.22 SIKKIM 0.36 0.00 10.61 9.89 -0.35 WBSETCL 101.32 22.27 60.68 90.50 72.12 JITPL 0.00 0.00 1.90 1.90 0.00 Alipurduar 0.13 0.12 0.00 0.00 0.01 0.12 0.00 0.00 0.00 Sasaram 0.12 MPL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.13 APNRL 4.25 -0.12 BRBCL 0.00 0.00 5.80 2.51 -3.29 JLHEP 0.00 0.00 0.23 0.23 0.00 Chuzachen 0.12 0.00 0.11 0.11 0.12 TUL 0.00 0.00 0.00 0.00 0.00 RHEP 0.13 0.12 0.02 0.02 0.01 THEP 0.10 0.01 0.01 0.16 0.05 Dikchu 0.00 0.00 0.00 0.00 0.00 ECR 1.60 1.60 1.10 1.10 0.00 GMR 0.70 0.65 0.05 0.05 0.05 NHPC 0.00 0.00 2.81 2.56 -0.25 NTPC 0.89 315.79 232.47 0.00 -82.43

> Receivable: Received:

Receivable by ER POOI Payable: Received by ER POOL Paid: Payable by ER POOL Paid by ER POOL

'- ve' Payable by ER pool

'+ ve' Receivable by ER pool

Deviation Interest Bill due to delay payment

Annexure-III All figs in ₹

| SI 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 | 91,05,608 | | 0 |
| 2 | DVC | 23,718 | | 23,718 | 0 |
| 3 | GRIDCO | -2,79,466 | | 2,79,466 | 0 |
| 4 | JUVNL | 4,34,61,973 | 4,34,61,973 | | 0 |
| 5 | Sikkim | 11,76,865 | 11,76,865 | | 0 |
| 6 | WBSETCL | 21,415 | 21,415 | | 0 |
| 7 | NHPC | -54,745 | | 54,745 | 0 |
| 8 | NTPC | 0 | | | 0 |
| 9 | APNRL | 11,33,748 | 11,33,748 | | 0 |
| 10 | BRBCL | -1,316 | | 1,316 | 0 |
| 11 | JLHEP | 1,28,853 | 1,15,968 | 12,885 | 0 |
| 12 | CHUZACHEN | -3,119 | | 3,119 | 0 |
| 13 | GMR | 1,73,96,828 | 1,73,96,828 | | 0 |
| 14 | JITPL | 8,589 | 8,589 | | 0 |
| | KBUNL | 40 | 40 | | 0 |
| | MPL | -33,428 | | 33,428 | 0 |
| | NPGC-Infirm | 0 | | | 0 |
| | NPGC | -10,953 | | 10,953 | 0 |
| 19 | NVVN-BD | 24,603 | | 24,603 | 0 |
| | NVVN-NEPAL | 0 | | | 0 |
| | OPGC | 24,209 | | | 24,209 |
| | PGCIL-Alipurduar | 1,72,257 | 1,72,258 | | 0 |
| | PGCIL SASARAM | 1,686 | 1,686 | | 0 |
| 24 | Tashiding(THEP) | 1,57,661 | 1,57,661 | | 0 |
| | Dikchu | 28,701 | 28,701 | | 0 |
| | TPTCL (Dagachu) | 0 | | | 0 |
| 27 | TUL (Teesta-III) | -1,134 | | 1,134 | 0 |

'- ve' Payable by ER pool

'+ ve' Receivable by ER pool

Note: Ind-bharath interest is calculated till 29.05.2019

Annexure -IV

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

| | | | | | | <u>Fig</u> | gures in Lacs of Rupe | es | |
|-------|--|--|---|---|---|------------|--|-----------------------|-------------------------------|
| SI No | ER Constituents | No. of weeks in which Deviation Charge payable | No of times payment was delayed during 2022-23 | Total Deviation charges payable to pool during 2022-23 | Average weekly Deviation Charge liability (C)/52 weeks | LC Amount | Defaulting Weeks | Due date of expiry | Remarks |
| | | (A) | (B) | (C) | (D) | (E) | (G) | (F) | (G) |
| 1 | Bihar State Power Holding Corporation Limited/ बिहार | 37 | 37 | 19124.44 | 367.78 | 404.55551 | ALL Weeks | 12-11-2023 | LC opened for ₹ 213,53,049 /- |
| 2 | Jharkhand State Electricity Board / झारखंड | 36 | 36 | 16432.86 | 316.02 | 347.61817 | ALL Weeks | 13-03-2024 | LC opened for ₹139,64,455 /- |
| 3 | Damodar Valley Corporation / डीवीसी | 39 | 2 | 12559.02 | 241.52 | 265.67154 | 25, 38 | No Valid LC | |
| 4 | Power Deptt, Govt. of Sikkim /सिकिंगम | 28 | 28 | 2176.42 | 41.85 | 46.03970 | ALL Weeks | No Valid LC | |
| 5 | APNRL | 39 | 39 | 1226.93 | 23.59 | 25.95437 | ALL Weeks | 11-12-2024 | LC opened for ₹ 25,95,437 /- |
| 6 | Gati Chuzachen / चुजाचेन | 18 | 13 | 116.69 | 2.24 | 2.46842 | All weeks Except 25, 32, 41, 49, 50 | No Valid LC | |
| 7 | GMR / जीएमआर | 45 | 37 | 948.14 | 18.23 | 20.05681 | All week except 9, 10, 11, 12, 14, 15, 17, 18 | No Valid LC | |
| 8 | Jindal India Thermal Power Ltd. | 33 | 6 | 1422.66 | 27.36 | 30.09467 | 2, 3, 38, 50 | No Valid LC | |
| 9 | TPTCL Dagachu/ डागाचु | 45 | 6 | 3812.86 | 73.32 | 80.65675 | 36, 38, 39, 40, 44, 45 | 31-03-2024 | LC opened for ₹ 80,65,675 /- |
| 10 | JLHEP | 35 | 31 | 1192.36 | 22.93 | 25.22302 | All weeks Except 2, 6, 19, 27 | No Valid LC | |
| 11 | BRBCL /बीआर बीसीएल | 42 | 2 | 1738.40 | 33.43 | 36.77389 | 29, 46 | No Valid LC | |
| 12 | PGCIL-Sasaram / सासाराम | 30 | 3 | 38.17 | 0.73 | 0.80735 | 43, 52 | 31-03-2024 | LC opened for ₹ 80,735 /- |
| | Dikchu | 18 | 8 | 185.40 | 3.57 | 3.92202 | 30, 37, 38, 41, 43, 45, 46, 50 | 03-05-2024 | LC opened for ₹ 392,202 /- |
| 14 | PGCIL-Alipurduar / अलीपुरदुआर | 15 | 8 | 23.14 | 0.44 | 0.48940 | 1, 2, 3, 4, 7, 8 | 31-12-2024 | LC opened for ₹ 48,940/- |
| 15 | Tashiding | 23 | 17 | 396.09 | 7.62 | 8.37890 | All weeks Except 1, 2, 4, 6, 19, 27 | No Valid LC | |

| | 1 | RLDC Fe | es & Char | <u> </u> | | | • | | | Annexure-IX 2023-24 | | |
|-------|---|---------|-----------|----------|-----|-----|-----|-------|-----|------------------------|-----|--|
| ~ | | | | 21-22 | | | - | 22-23 | | - | - | |
| SI No | Entity Name | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | |
| | Adhunik PNRL | Yes | Yes | | | | Yes | | Yes | Yes | | |
| | 2 Alipurduar HVDC | | | | | | | | | | | |
| | Alipurduar Transmission Limited | ** | ** | ** | ** | | ** | ** | X X | XX | | |
| | BARH STG-I | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| | BARH-II | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| | Bharatiya Rail Bijlee Company Ltd. | Yes | | | | Yes | Yes | | | | | |
| | Bihar State Power Transmission Company Ltd. | | | | | | | | Yes | | | |
| | Darbhanga-Motihari Transmission Company Ltd. | Yes | Yes | | | _ | | | | _ | | |
| | Darlipali Super Thermal Power Project | Yes | Yes | | | _ | | | _ | _ | | |
| | DVC | | | | | _ | | | _ | | | |
| | DVC Seller | | | | | | | | | | | |
| | 2 ENICL | | | | | | | | | | | |
| | B FSTPP-I - II | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| | FSTPP-III | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| | GATI INFRASTRUCTURE PVT. LTD | | | | | Yes | Yes | | | | Yes | |
| | 6 GMR Kamalanga Energy Ltd. | | | | | | | | | | | |
| | 7 GRIDCO | Yes | Yes | Yes | Yes | | | | | | | |
| 18 | HVDC SASARAM | | | | | | | | | | | |
| 19 | Jharkhand Bijli Vitran Nigam Limited | | | | | | | | | | | |
| 20 | JINDAL INDIA THERMAL POWER LTD. | | | | | | | | | | | |
| | Jorethang Loop HEP | | | | | | | Yes | Yes | Yes | Yes | |
| 22 | Kanti Bijlee Utpadan Nigam limited | Yes | Yes | Yes | Yes | | | Yes | Yes | Yes | Yes | |
| | KHSTPP-I | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| 24 | KHSTPP-II | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| 25 | 5 Maithon Power Limited | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| 26 | Nabinagar Power Generation Corporation Ltd. | | | | | Yes | | Yes | Yes | Yes | Yes | |
| 27 | NORTH KARANPURA TRANSCO LIMITED | | | | | | | | | | | |
| 28 | NVVN Bangladesh | | | | | | Yes | | | | Yes | |
| 29 | NVVN Nepal | | | | | | | | | | Yes | |
| 30 | Odisha Generation Phase-II Transmission Limited | | | | | | | | | | | |
| | PMJTL | | | | | | | | | | | |
| | PMTL | | | | | | | | | | | |
| | POWERGRID ISTS | | | | | | | | | | | |
| | POWERLINK ISTS | | | | | | | | | | | |
| | Purulia & Kharagpur Transmission Comp. Ltd. | | | | | | | | | | | |
| | RANGEET HEP | | | | | | | | | | | |
| | 7 Rognichu HEP | | | | | Yes | | | | | | |
| | Shiga Energy Private Ltd | | | | | | | Yes | Yes | Yes | Yes | |
| | SIKKIM | | | | | | | 100 | 105 | 105 | 100 | |
| 4(| Sneha Kinetic Power Project Private Ltd | | | | | | | | | | | |
| | TALCHED SOLAD DV DOWED STATION NTDC | | | | | | | | | | | |
| 41 | LIMITED | Yes | Yes | | | | | | | | | |
| Δ | 2 Tata Power Trading Company Limited | | Yes | Yes | | Yes | | | | | | |
| | TEESTA HEP | | 105 | 105 | | 103 | | | | | | |
| | Teesta Urja Ltd.(Teesta -III HEP) | Yes | | | | | | | | | | |
| | Teesta offa Ltd. (Teesta - III HEP) | 103 | | | | | | | | | | |
| | TSTPP-I | Yes | Yes | | + | | | | | | | |
| | WBSEDCL | 1 08 | 105 | | Yes | | Yes | | | Yes | | |

| Annexure - V |
|--------------|
|--------------|

| | DETAILS OF DISBURSEMENT TO POWER SYSTEM DEVELOPMENT FUND | | | | | | | | | | | | |
|----------|--|---|-------------------------|--|--|--|--|--|--|--|--|--|--|
| SI No | Nature of Amount Opening Balance (upto 31.03.2019) | Amount transferred to PSDF (Rs in Lac) 95896.17 | Date of Disbursement | Remarks | | | | | | | | | |
| 1 | Reactive Energy Charge | 105.79202 | 04.04.19 | Reactive Charges_18-19 | | | | | | | | | |
| 2 | Reactive Energy Charge | 287.48448 | 03.05.19 | Reactive Charges_18-19 & 19-20 | | | | | | | | | |
| 3 | Reactive Energy Charge Reactive Energy Charge | 129.69559 207.83840 | 03.06.19 04.07.19 | Reactive Charges_19-20 Reactive Charges 19-20 | | | | | | | | | |
| 4 | Reactive Energy Charge Reactive Energy Charge | 207.83840 94.91703 | 02.08.19 | Reactive Charges 19-20 Reactive Charges 19-20 | | | | | | | | | |
| 6 | Reactive Energy Charge | 188.53681 | 02.09.19 | Reactive Charges_19-20 | | | | | | | | | |
| 7 | Surplus DSM amount transferred | 32210.51998 | 24.09.19 | DSM Charges_19-20 | | | | | | | | | |
| 8 | Reactive Energy Charge | 173.06004 | 01.10.19 | Reactive Charges_19-20 | | | | | | | | | |
| 9 10 | Reactive Energy Charge Reactive Energy Charge | 273.15002 401.09564 | 01.11.19 04.12.19 | Reactive Charges_19-20 Reactive Charges 19-20 | | | | | | | | | |
| 10 | Reactive Energy Charge | 252.53573 | 02.01.20 | Reactive Charges 19-20 Reactive Charges 19-20 | | | | | | | | | |
| 12 | Reactive Energy Charge | 148.65520 | 07.02.20 | Reactive Charges_19-20 | | | | | | | | | |
| 13 | Reactive Energy Charge | 205.22437 | 04.03.20 | Reactive Charges_19-20 | | | | | | | | | |
| 14 15 | Bank interest from Reactive acct | 0.21706 | 03.04.20 | Bank interest from Reactive acct | | | | | | | | | |
| 15 | Reactive Energy Charge Reactive Energy Charge | 843.03166 507.80481 | 03.06.20 07.07.20 | Reactive Charges_19-20 & 20-21 Reactive Charges_17-18,18-19 & 20-21 | | | | | | | | | |
| 10 | Reactive Energy Charge | 309.41068 | 06.08.20 | Reactive Charges_17-16,18-19 & 20-21 | | | | | | | | | |
| 18 | Reactive Energy Charge | 83.23955 | 02.09.20 | Reactive Charges_19-20 & 20-21 | | | | | | | | | |
| 19 20 | Bank interest of DSM A/C-TDS portion Bank interest of DSM A/C-TDS portion | 251.65235 15.64788 | 18.09.20 22.09.20 | Bank interest TDS portion transferred from POSOCO,CC Bank interest TDS portion transferred from POSOCO,CC | | | | | | | | | |
| 20 | Reactive Energy Charge | 118.85979 | 06.10.20 | Reactive Charges 20-21 | | | | | | | | | |
| 22 | Reactive Energy Charge | 101.42971 | 04.11.20 | Reactive Charges_20-21 | | | | | | | | | |
| 23 | Reactive Energy Charge | 82.34791 | 04.12.20 | Reactive Charges_ 20-21 | | | | | | | | | |
| 24 25 | Reactive Energy Charge | 500.95333 | 06.01.21 | Reactive Charges of 19-20 & 20-21 | | | | | | | | | |
| 25 | Reactive Energy Charge Reactive Energy Charge | 92.51486 50.22963 | 03.02.21 04.03.21 | Reactive Charges of 19-20 & 20-21 Reactive Charges of 19-20 & 20-21 | | | | | | | | | |
| 20 | Reactive Energy Charge | 32.15331 | 07.04.21 | Reactive Charges of 19-20 & 20-21 | | | | | | | | | |
| 28 | Reactive Energy Charge | 39.59760 | 05.05.21 | Reactive Charges of 19-20 & 20-21 | | | | | | | | | |
| 29 | Reactive Energy Charge | 18.96069 | 01.06.21 | Reactive Charges of 20-21 & 21-22 | | | | | | | | | |
| 30 | Reactive Energy Charge | 392.24613 | 12.07.21 | Reactive Charges of 20-21 & 21-22 | | | | | | | | | |
| 31 32 | Reactive Energy Charge Addl. Dev | 214.22298 392.94201 | 22.07.21 25.08.21 | Reactive Charges 21-22 DSM Charges of 19-20 received from Jharkhand | | | | | | | | | |
| 32 | Addi. Dev Addi. Dev | 392.94201 5.99326 | 03.09.21 | DSM Charges of 19-20 received from Jharkhand DSM Charges of 19-20 received from Jharkhand | | | | | | | | | |
| 34 | Reactive Energy Charge | 330.73064 | 09.09.21 | Reactive Charges 21-22 | | | | | | | | | |
| 35 | Addl. Dev | 1334.97939 | 23.09.21 | DSM Charges of 20-21 received from Bihar | | | | | | | | | |
| 36 | Addl. Dev | 500.00000 | 27.09.21 | DSM Charges of 20-21 received from Bihar | | | | | | | | | |
| 37 38 | Addl. Dev Addl. Dev | 1500.00000 500.00000 | 29.09.21 01.10.21 | DSM Charges of 20-21 received from Bihar DSM Charges of 20-21 received from Bihar | | | | | | | | | |
| 38 | Addi. Dev Addi. Dev | 1000.00000 | 01.10.21 | DSM Charges of 20-21 received from Binar | | | | | | | | | |
| 40 | Addl. Dev | 402.60050 | 05.10.21 | DSM Charges of 20-21 received from Jharkhand | | | | | | | | | |
| 41 | Reactive Energy Charge | 131.05971 | 07.10.21 | Reactive Charges 21-22 | | | | | | | | | |
| 42 | Addl. Dev Addl. Dev | 1000.00000 1000.00000 | 22.10.21 26.10.21 | DSM Charges of 20-21 received from Bihar DSM Charges of 20-21 received from Bihar | | | | | | | | | |
| 43 | Addi. Dev Addi. Dev | 539.21266 | 26.10.21 28.10.21 | DSM Charges of 20-21 received from Binar DSM Charges of 20-21 received from Bihar | | | | | | | | | |
| 45 | Reactive Energy Charge | 224.70676 | 03.11.21 | Reactive Charges 21-22 | | | | | | | | | |
| 46 | Reactive Energy Charge | 366.25533 | 03.12.21 | Reactive Charges 21-22 | | | | | | | | | |
| 47 | Reactive Energy Charge Addl. Dev | 5.33816 489.56759 | 09.12.21 04.01.22 | Interest Amount received in Reactive Account DSM Charges of 20-21 received from Jharkhand | | | | | | | | | |
| 48 | Reactive Energy Charge | 449.70232 | 04.01.22 | Reactive Charges 21-22 | | | | | | | | | |
| 50 | Reactive Energy Charge | 547.40910 | 04.02.22 | Reactive Charges 21-22 | | | | | | | | | |
| 51 | Addl. Dev | 7182.00679 | 08.02.22 | Excess amount after clearing Wk-43 | | | | | | | | | |
| 52 | Addl. Dev Reactive Energy Charge | 103.38490 22.28702 | 28.02.22 04.03.22 | DSM Charges of 20-21 received from Jharkhand and POSOCO CC (REC) Reactive Charges 21-22 | | | | | | | | | |
| 54 | Reactive Energy Charge | 978.22379 | 08.03.22 | Reactive Charges 21-22 | | | | | | | | | |
| 55 | Reactive Energy Charge | 502.63132 | 04.04.22 | Reactive Charges 21-22 | | | | | | | | | |
| 56 57 | Addl. Dev Reactive Energy Charge | 13586.90110 91.67842 | 02.05.22 02.05.22 | Addl Dev Charge 21-22 Reactive Charges 21-22 | | | | | | | | | |
| 57 | Addl. Dev | 323.72543 | 17.05.22 | DSM Charges of 21-22 received from Jharkhand | | | | | | | | | |
| 59 | Addl. Dev | 223.19034 | 31.05.22 | DSM Charges of 21-22 received from Jharkhand | | | | | | | | | |
| 60 | Addl. Dev | 17070.55890 | 02.06.22 | DSM charges | | | | | | | | | |
| 61 62 | Reactive Energy Charge Addl. Dev | 104.77973 700.00000 | 02.06.22 10.06.22 | Reactive Charges 21-22 DSM Charges of 21-22 received from Jharkhand and DVC (Bhutan) | | | | | | | | | |
| 63 | Addl. Dev | 230.65522 | 24.06.22 | DSM Charges of 21-22 received from Jharkhand and DVC (Bhutan) | | | | | | | | | |
| 64 | Addl. Dev | 200.00000 | 28.06.22 | DSM Charges of 21-22 received from Jharkhand | | | | | | | | | |
| 65 | Addl. Dev | 200.00000 | 01.07.22 | DSM Charges of 21-22 received from Jharkhand | | | | | | | | | |
| 66 67 | Reactive Energy Charge Addl. Dev | 491.14301 200.00000 | 08.07.22 | Reactive Charges 21-22 received from Bihar DSM Charges of 21-22 received from Jharkhand | | | | | | | | | |
| 68 | Addl. Dev | 900.00000 | 20.07.22 | DSM Charges of 21-22 received from Sikkim and Bihar | | | | | | | | | |
| 69 | Addl. Dev | 300.00000 | 25.07.22 | DSM Charges of 21-22 received from Jharkhand | | | | | | | | | |
| 70 | Addl. Dev Addl. Dev | 200.00000 400.00000 | 26.07.22 28.07.22 | DSM Charges of 21-22 received from Jharkhand | | | | | | | | | |
| 71 | Addi. Dev Addi. Dev | 400.00000 553.96908 | 28.07.22 08.08.22 | DSM Charges of 21-22 received from Jharkhand DSM Charges of 21-22 received from Bihar | | | | | | | | | |
| 73 | Reactive Energy Charge | 56.45017 | 08.08.22 | Reactive Charges 22-23 | | | | | | | | | |
| 74 | Reactive Energy Charge | 586.61896 | 07.09.22 | Reactive Charges 22-23 | | | | | | | | | |
| 75 | Reactive Energy Charge Addl. Dev | 152.77578 15507.63580 | 07.10.22 07.11.22 | Reactive Charges 22-23 DSM Charges 22-23 | | | | | | | | | |
| 76 | Reactive Energy Charge | 94.63234 | 07.11.22 | Reactive Charges 22-23 | | | | | | | | | |
| 78 | Reactive Energy Charge | 89.18883 | 02.12.22 | Reactive Charges 22-23 | | | | | | | | | |
| 79 | Reactive Energy Charge | 162.52773 | 05.01.23 | Reactive Charges 22-23 | | | | | | | | | |
| 80 81 | Reactive Energy Charge Reactive Energy Charge | 3.93158 292.70498 | 07.02.23 06.03.23 | Reactive Charges 22-23 Reactive Charges 22-23 | | | | | | | | | |
| 81 | Reactive Energy Charge | 321.80291 | 30.03.23 | Reactive Charges 22-23 Reactive Charges 22-23 | | | | | | | | | |
| 83 | Addl. Dev | 10079.39783 | 06.04.23 | DSM Charges 22-23 | | | | | | | | | |
| 84 | Reactive Energy Charge | 716.65397 | 04.05.23 | Reactive Charges 23-24 | | | | | | | | | |
| 85 | Reactive Energy Charge | 508.35350 | 07.06.23 | Reactive Charges 23-24 | | | | | | | | | |
| 86 87 | Reactive Energy Charge Reactive Energy Charge | 83.11163 498.36959 | 05.07.23 04.08.23 | Reactive Charges 23-24 Reactive Charges 23-24 | | | | | | | | | |
| 88 | Reactive Energy Charge | 50.77966 | 05.09.23 | Reactive Charges 23-24 | | | | | | | | | |
| 89 | Reactive Energy Charge | 5.26035 | 06.10.23 | Reactive Charges 23-24 | | | | | | | | | |
| 90 | Reactive Energy Charge | 6.79669 | 06.11.23 | Reactive Charges 23-24 | | | | | | | | | |
| 91 | Reactive Energy Charge | 0.11306 | 05.12.23 | Reactive Charges 23-24 | | | | | | | | | |
| | Total | 218731.92988 | | | | | | | | | | | |
| - | | | | | | | | | | | | | |

| | | | DSM account | Reconciliati | on Status of | ER constitu | ents | | | | | | | | Annex | kure-VI | | | | |
|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------|------------------|------------------|------------------|---------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|----------|
| | | 201 | 9-20 | | | 2 | 020-21 | | | 20 | 21-22 | | | 202 | 2-23 | | | 202 | 23-24 | |
| 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) | Q1 (06.07.21) | Q2 (07.10.21) | Q3 (11.01.22) | Q4 (18.04.22) | Q1 (15.07.22) | Q2 (21.10.22) | Q3 (19.01.23) | Q4 (28.04.23) | Q1 (28.07.23) | Q2 (19.10.23) | | |
| BSPHCL | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO | NO | NO | | |
| JUVNL | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | | |
| DVC | YES | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | | |
| GRIDCO | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | | |
| WBSETCL | YES | YES | YES | YES | YES | NÖ | NO | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | | |
| SIKKIM | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | (| |
| NTPC | YES | YES | Yes | YES | YES | YES | YES | YES | YES | YES | YES | YES | (| |
| NHPC | YES | NO | YES | YES | YES | YES | YES | YES | YES | NO | NÖ | NO | | |
| MPL | YES | YES | YES | YES | YES | YES | YES | NO | NO | YES | YES | YES | | |
| APNRL | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | (| |
| CHUZACHEN(GATI) | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | | |
| NVVN(Ind-Bng) | YES | YES | YES | YES | YES | NO | NO | NO | YES | YES | YES | YES | YES | YES | YES | NO | YES | YES | (| |
| NVVN(Ind-Nep) | YES | YES | YES | YES | YES | NO | NO | NO | YES | YES | YES | YES | YES | YES | YES | NO | YES | YES | | |
| GMR | YES | YES | YES | YES | NO | NO | NO | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | i | |
| JITPL | YES | NO | NO | NO | NO | YES | NO | NO | YES | NO | NO | NO | | |
| TPTCL (DAGACHU) | YES | YES | YES | YES | YES | NÖ | NO | NO | YES | YES | YES | YES | NO | NO | NO | YES | NO | NO | | |
| JLHEP(DANS ENERGY) | YES | YES | YES | YES | YES | YES | NO | NO | YES | YES | YES | YES | L | |
| BRBCL | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO | YES | YES | L | |
| POWERGRID (ER-I) | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO | NO | <u> </u> | |
| POWERGRID (ER-II) | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | (| <u> </u> |
| TUL (TEESTA-III) | YES | YES | YES | YES | YES | YES | NO | YES | YES | YES | NO | NO | <u> </u> | |
| DIKCHU | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO | YES | NO | NO | YES | YES | NO | <u> </u> | ' |
| SHIGA (TASHIDING) Rongnichu | YES | YES | YES | YES | YES | NO | NO NA | YES | YES | A YES | YES | YES | NO NO | NO NO | YES NO | YES YES | YES NO | YES NO | <u> </u> | ' |

(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

| | | 2019 | 1-20 | | · | 2020 | າ-21 | | | 202 | 21-22 | | 2022-23 | | | | 2023-24 | | | |
|---------------------|------------------|------------------|------------------|------------------|------------------|------------|------------|------------|------------|-------------------|---------------------|------------|------------|-------------|--------------|--------------|------------|-----------|-----------|----------|
| | Reac | active account | Reconciliati | on Status of | R constituer | nts | | | | | | | | | | | | | | |
| 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 | Q3 | Q4 | Q1 | Q2 | Q3 (11.01.22) | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | , | |
| | (17.07.19) | (21.10.19) | (13.01.20) | (15.04.20) | (15.07.20) | (23.10.20) | (20.01.21) | (28.04.21) | (00.07.21) | <u>(U7.10.21)</u> | <u> (11.01.22)</u> | (10.04.22) | (15.07.22) | 1(21.10.22) | 1 (19.01.23) | 1 (20.04.23) | (28.07.23) | 19.10.23) | | <u> </u> |
| BSPHCL | YES | NA | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO | NO | NO | · · · · · | |
| JUVNL | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | · · · · · | |
| DVC | YES | N/A | N/A | N/A | YES | NO | NO | YES | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | · | |
| GRIDCO | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO | YES | YES | YES | · | |
| WBSETCL | YES | YES | NO | NO | YES | NO | NO | YES | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | · | |
| SIKKIM | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | · · · · · | |
| NVVN(Ind-Bng) | | | | | | | | | | | | | | | | | YES | YES | · · · · · | |
| NVVN(Ind-Nep) | | | | | | | | | | | | | | | | | YES | YES | | |

TRAS Account Reconciliation_Status

| | | 2023-24 | | | | | | | | | | |
|------------------------------------|------------------|---------|--|--|--|--|--|--|--|--|--|--|
| TRAS account Reconciliation Status | | | | | | | | | | | | |
| Name of The Utility | Q1 (28.07.23) | | | | | | | | | | | |
| NTPC | YES | YES | | | | | | | | | | |
| BRBCL | YES | YES | | | | | | | | | | |
| MPL | YES | YES | | | | | | | | | | |

SRAS Account Reconciliation Status

| | 202 | 2-23 | 2023-24 | | | | | | | | |
|---------------------|-------------|------------|------------|------------|--|--|--|--|--|--|--|
| | Q3 Q4 Q1 Q2 | | | | | | | | | | |
| Name of The Utility | (19.01.23) | (28.04.23) | (28.07.23) | (19.10.23) | | | | | | | |
| NTPC | YES | YES | YES | YES | | | | | | | |
| MPL | YES | YES | YES | YES | | | | | | | |
| NHPC | YES | NO | NO | NO | | | | | | | |
| | | | | | | | | | | | |

Annexure-VIII

Reconciliation Between Open Access department of ERLDC and SLDCs, STUs and CTU

| SI. No. | STUs / SLDCs Name | Quarter-I (2022- | Quarter-II | Quarter-III | Quarter-IV | Quarter-I | Quarter-II |
|---------|----------------------------|------------------|------------|-------------|------------|------------|------------|
| SI. NO. | STUS / SLDCS Name | 23) | (2022-23) | (2022-23) | (2022-23) | (2023-24) | (2023-24) |
| | Date of Issuance | 28-07-2022 | 26-10-2022 | 30-01-2023 | 18-04-2023 | 21-07-2023 | 27-10-2023 |
| 1 | West Bengal - SLDC and STU | NO | NO | NO | NO | NO | NO |
| 2 | DVC - SLDC | NO | NO | YES | YES | NO | NO |
| 3 | OPTCL-SLDC and STU | YES | YES | YES | YES | YES | NO |
| 4 | Jharkhand STU and SLDC | NO | NO | NO | NO | NO | NO |
| 5 | Bihar-SLDC and STU | YES | NO | NO | NO | NO | NO |
| 6 | Andhra Pradesh | NO | NO | NO | NO | NO | NO |
| 7 | CHHATTISGARH | NO | NO | NO | NA | NO | NO |
| 8 | Delhi | NO | NO | NO | NA | NO | NO |
| 9 | HIMACHAL PRADESH | NO | NO | NO | NO | NO | NO |
| 10 | JAMMU & KASHMIR | NO | NA | NA | NA | NA | NO |
| 11 | KARNATAKA | NO | NO | NO | NO | NO | NO |
| 12 | MADHYA PRADESH | NO | NO | NO | NO | NO | NO |
| 13 | MAHARASTRA | NO | NO | NO | NO | NO | NO |
| 14 | Manipur | NA | NA | NA | NA | NO | NO |
| 15 | RAJASTHAN | NO | NO | NO | NO | YES | YES |
| 16 | Gujarat | NA | NO | NO | NA | NO | NO |
| 17 | Uttar Pradesh | NA | NO | NO | NO | NO | NO |
| 18 | Tamil Nadu | NA | NA | NA | NA | NO | NO |
| 19 | Telangana | NA | NA | NO | NO | NA | NA |
| 20 | CTU | NO | NO | NO | NO | NO | NO |

Reconciliation Between Open Access department of ERLDC and Applicants

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| SI. No. | Applicants Name | Quarter-I (2022- 23) | Quarter-II (2022-23) | Quarter-III (2022-23) | Quarter-IV (2022-23) | Quarter-I (2023-24) | Quarter-II (2023-24) |
|---------|--|-------------------------|-------------------------|--------------------------|-------------------------|------------------------|-------------------------|
| | Date of Issuance | 28-07-2022 | 26-10-2022 | 30-01-2023 | 18-04-2023 | 21-07-2023 | 27-10-2023 |
| 1 | Bihar State Power Holding Company Limited | NA | NA | NA | NA | NA | NA |
| 2 | Calcutta Electric Supply Company | NA | NA | NA | NA | NA | NA |
| 3 | GRIDCO Ltd | YES | YES | NA | NA | YES | NO |
| 4 | GMR Energy Trading Limited | NA | NA | NA | NA | NA | YES |
| 5 | Jindal India Thermal Power Limited | NO | NO | NO | NO | NO | NO |
| 6 | | NO | NO | NO | NO | NO | NO |
| - | Jharkhand Bijli Vitaran Nigam Limited | | | | | | |
| 7 | NHPC Limited | NA | NA | NA | NA | NA | NA |
| 8 | West Bengal State Electricity Distribution Company Limited | NO | NO | NA | NA | NO | NO |
| 9 | Adani Enterprises Limited | NA | NA | NA | NA | NO | NA |
| 10 | ADANI HYBRID ENERGY JAISALMER THREE LIMITED AHS | YES | YES | NA | NA | NA | NA |
| 11 | ADANI HYBRID ENERGY JAISALMER THREE LIMITED AHW | YES | YES | NA | NA | NA | NA |
| 12 | Arunachal Pradesh Power Corporation Private Limited | NO | NO | NO | NO | NO | NO |
| 13 | Clean Solar Power (Jodhpur) Private Limited | YES | YES | YES | NA | NA | NA |
| 14 | DALMIA CEMENT (BHARAT) LIMITED (RCW) | NA | NA | NA | NO | NO | NO |
| 15 | HINDUSTAN POWER EXCHANGE LIMITED | NA | YES | YES | YES | YES | YES |
| 16 | INDIAN ENERGY EXCHANGE LIMITED | NO | NO | NO | YES | YES | NO |
| 17 | India Power Corporation Limited | NO | NO | NO | NO | NO | NO |
| 18 | ITC Limited Dairy Plant | NO | NO | NA | NA | NO | NO |
| 19 | ITC Limited ITD Munger | YES | YES | NA | NA | NO | NO |
| 20 | ITC LTD Kidderpore | NO | NO | NO | NA | NA | NA |
| 21 | I T C LIMITED, Sonar and Royal Bengal | NA | NO | NA | NA | NA | NA |
| 22 | ITC Limited Corporate Office Kolkatta | NA | NA | NA | NA | NA | NO |
| 23 | KREATE ENERGY(I) PRIVATE LIMITED | NO | NO | NO | NO | NO | NO |
| 24 | NATIONAL ALUMINIUM COMPANY LIMITED AP | NA | NA | NA | NO | NO | NO |
| 25 | NATIONAL ALUMINIUM COMPANY LIMITED-OD | NA | NA | NA | NO | NA | NO |
| 26 | NTPC VIDYUT VYAPAR NIGAM LIMITED | YES | NA | NA | NA | NO | NA |
| 27 | POWER EXCHANGE INDIA LIMITED | NO | YES | YES | YES | YES | YES |
| 28 | PTC INDIA LIMITED | YES | YES | NO | NA | NA | NA |
| 29 | TATA POWER TRADING COMPANY LIMITED | NO | NO | NO | NO | NO | NO |
| 30 | TATA STEEL LIMITED @132kV | NO | NA | NA | NA | YES | NO |
| 31 | Saranyu Power Trading Private Limited | NA | NO | NA | NO | NA | NA |
| 32 | SHUBHEKSHA ADVISORS PRIVATE LIMITED | NA | NA | NA | NA | NA | NO |
| 33 | OSTRO KANNADA POWER PRIVATE LIMITED | NA | NO | NA | NA | NA | NA |