



सत्यमेव जयते

भारत सरकार  
Government of India  
विद्युत् मंत्रालय  
Ministry of Power  
पूर्वी क्षेत्रीय विद्युत् समिति  
Eastern Regional Power Committee

No. ERPC/COMMERCIAL/CCM/2023/1426

Date: 09.01.2024

To

संलग्न सूची के अनुसार।/As per List Attached.

विषय: ईआरपीसी की 50वीं वाणिज्यिक उप-समिति की बैठक के कार्यवृत्त के संबंध में

Subject: Minutes of 50<sup>th</sup> Commercial Sub-committee meeting of ERPC-reg

महोदय/Sir,

कृपया 08 जनवरी 2024 को वर्चुअल मोड के माध्यम से आयोजित ईआरपीसी की 50वीं वाणिज्यिक उप-समिति बैठक का विवरण आपकी जानकारी और आवश्यक कार्रवाई के लिए संलग्न है।

The Minutes of 50<sup>th</sup> Commercial Sub-Committee Meeting of ERPC held on 08<sup>th</sup> January 2024 through virtual mode is enclosed for your kind information and necessary action, please.

यह सदस्य सचिव, ईआरपीसी के अनुमोदन से जारी किया जाता है।

This issues with the approval of Member Secretary, ERPC.

आपका विश्वासी /Yours faithfully

प्रसून डे  
9.1.24

(P. K. De)  
SE(Comm)

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

1. Director (Project), BSPTCL, Vidyut Bhavan, Bailey Road, Patna-800001.
2. Director (Project), SBPDCL, Vidyut Bhavan, Bailey Road, Patna-800001.
3. Director (Project), NBPDC, Vidyut Bhavan, Bailey Road, Patna-800001.
4. Chief Engineer (Commercial), BSPHCL, Vidyut Bhavan, Bailey Road, Patna-800001.
5. Executive Director (Comml.), DVC, Kolkata
6. Executive Director, JUSNL, Engineering Building, HEC, Dhurwa, Ranchi-834004.
7. Chief Engineer (C&R), JBVNL, Engineering Building, HEC, Dhurwa, Ranchi-834004.
8. Chief General Manager (PP), GRIDCO, Bhubaneswar-751022
9. Chief General Manager (R&T), OPTCL, Bhubaneswar-751023
10. Asst. General Manager (F&A), Finance Wing, OHPC, Bhubaneswar
11. Sr. General Manager (Finance), OPGC, Odisha
12. Executive Director (RT), WBSEDCL, Kolkata
13. Chief Engineer (Commercial), WBSETCL, Bidyut Bhavan, Bidhannagar, Kolkata-700091
14. Chief Engineer, SLDC, WBSETCL, Howrah
15. General Manager (Commercial & Operations), WBPDC, Kolkata
16. Chief Engineer (Trans), Deptt. Of Power, Govt. Of Sikkim, Gangtok-737201
17. Executive Director, ERLDC, Kolkata-700033
18. Director (GM), CEA, New-Delhi-110066
19. General Manager (Comml.-ER), NTPC, Corporate Centre, New Delhi ( Fax : 011 24368417)
20. AGM (Comml.), ER – I HQ, NTPC Ltd., Loknayak Jaiprakash Bhawan, 2nd Floor, Dak Banglow Chowk, Fraser Road, Patna – 800001.
21. AGM (Comml.), ER – II HQ, NTPC Ltd., 3rd, 4th & 5th Floor, OLIC Building, Nayapalli, Bhubaneshwar – 751012
22. Chief Engineer (Commercial), NHPC, Faridabad
23. GM(Comml.), ER-I, Powergrid, Patna
24. GM(Comml.), ER-II, Powergrid, Kolkata
25. GM (Comml.), Powergrid, Odisha Projects, Sahid Nagar, Bhubaneswar – 751 007.
26. ED(Commercial), PTC india Limited, 2<sup>nd</sup> Floor NBCC Tower, Bikaji Cama Palace, New Delhi-110066
27. GM (BD&PS), NVVN Ltd, Scope Complex, Core-3, 7th Floor, Lodhi Road, New Delhi-110003
28. General Manager (SO), CESC Ltd., Kolkata
29. Vice-President (OPN-ER), Tata Power Co. Ltd., Jamshedpur
30. Head (Commercial), MPL, MA-5 Gogna Colony, P.O- Maithon Dam, Jharkhand-828207
31. Associate Vice President (CC), GMR Kamalanga Energy Ltd. (GKEL), Bhubaneswar 42303994
32. ED (Power Sales), JITPL, Plot-12, Local Shopping Complex, Sector B-1, Vasant Kunj, New Delhi-110070
33. President (Commercial), APNRL, Crescent Tower, 3rd Floor, Kolkata-700020,
34. ED (Commercial), Teesta Urja Limited, Barakhamba Road. New Delhi – 110001.
35. AGM, BRBCL, Nabinagar, Aurangabad BIHAR (Fax : 06332 233002)

## Special Invitee

1. Head (Commercial), TPTCL, Tata Power Co Ltd, Shatabdi Bhawan, NOIDA – 201 301
2. ED, DANS Energy Pvt Ltd, DLF Cyber City, Phase-II, GURGAON – 122 002
3. Director, Shiga Energy Pvt. Ltd., 5th Floor, DLF Building No. 8, Tower-C, DLF Cyber City, Phase-II, Gurgaon – 122002
4. CEO, Sneha Kinetic Power Projects Pvt.Ltd. #31 -A, National Highway, Behind SNOD building, Deorali, Gangtok, Sikkim-737102
5. GM, Rongnichu HEP, MBPCL, Sikkim-737102
6. Associate Director (Commercial & Regulatory), DMTCL, Sekura Energy Limited, Mumbai
7. CEO, Adani Power Transmission Limited, Gujrat-382028
8. DGM, Teesta Valley Power Transmission Limited, New Delhi-110066
9. Head (regulatory & Contract), IndiGrid Limited, Mumbai-400079
10. CEO, Cross Boarder Power Transmission Limited, Gurgaon-122001
11. The Interium Head, Bhutan Power System Operator, Thimpu, Bhutan
12. Managing Director, DGPC, Thimpu, Bhutan
13. Member Secretary, NRPC, New Delhi
14. Member Secretary, WRPC, Mumbai
15. Member Secretary, SRPC, Bangalore
16. Member Secretary, NERPC, Shillong
17. Member Secretary, NPC, CEA, New Delhi



## **EASTERN REGIONAL POWER COMMITTEE**

**14, GOLF CLUB ROAD, TOLLYGUNGE, KOLKATA-700 033**  
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### **MINUTES OF 50<sup>th</sup> COMMERCIAL SUB-COMMITTEE MEETING OF ERPC HELD ON 08.01.2024 (MONDAY)**

**AT 10:30 HRS THROUGH MICROSOFT TEAMS ONLINE PLATFORM.**

#### **ITEM NO. A1: Confirmation of the minutes of the 49<sup>th</sup> Commercial Sub-Committee meeting held on 28.07.2023.**

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

**Members may confirm the minutes of the 49<sup>th</sup> Commercial Sub-Committee Meeting.**

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

**Members confirmed.**

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

<b>ITEM NO. B.1: Erroneous Meter Recording of MVAR_Low for 400kV RTPS-Ranchi PG Ckt#3 - Agenda of DVC.</b>
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#### **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 206<sup>th</sup> OCC Meeting of ERPC, the energy accounting of these Ckts has been carried out with the RTPS end meter since 04<sup>th</sup> 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.

### **Deliberation in the meeting**

*Representative of ERPC gave a brief overview of the above issue and highlighted that as per present methodology, in case of any errors in the main meter reading, check meter readings are not being used for the calculation of Reactive Accounts.*

*Representative of DVC requested to revise the Reactive Accounts accordingly by disregarding the low MVAR recordings of ckt-3 and instead considering the high MVAR recordings of ckt-2 which is in parallel to ckt-3.*

*Representative of ERLDC also agreed to the observation raised by DVC regarding erroneous low MVAR recordings of 400kV RTPS-Ranchi PG Ckt-3. Member Secretary, ERPC requested all the constituents to carry out periodic checkup of all the meters.*

*Upon enquiring about the similarity of recorded data in both the circuits (ckt-2 & ckt-3) post rectification, it was informed that the recordings of both the circuits are almost same.*

*After detailed deliberation, CCM directed ERPC Secretariat to revise the Reactive Energy Accounts of 400kV RTPS-Ranchi PG ckt-3 for the period from 04-09-2023 to 08-10-2023 by considering the MVAR recordings of 400kV RTPS-Ranchi PG ckt-2.*

*Further, the committee was of the view that issues of similar nature in future will be decided on case to case basis on merit.*

*The issue referred to upcoming TCC/ERPC meeting for further concurrence.*

### **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.**

In reference to agenda no- B8 of 208th OCC, 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: -

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

### **Deliberation in the meeting**

*Representative of ERPC submitted that the issue was discussed in 208<sup>th</sup> OCC and technical approval has already been obtained.*

*After detailed deliberation, CCM agreed for the procurement of the 500 MVA ICT and referred the issue to the upcoming TCC/ERPC Meetings for further concurrence.*

*Further, Powergrid was also advised to explore the possibilities of availability of 315 MVA spare ICT in other regions for use in exigency in ER.*

### **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.

### **Deliberation in the meeting**

*Representative of Powergrid submitted that escalation in the expenditure incurred occurred due to inclusion of certain additional locations and consideration of GST charges which was not included earlier.*

*CCM approved the revised cost of Rs 7.16 Crores inclusive of taxes and referred the issue to the upcoming TCC/ERPC Meeting for further concurrence.*

*Further CCM advised Powergrid to highlight the GST charges, taxes applicable, if any, etc. in all future cases in advance.*

### **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).

Bifurcation 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 ( <b>SAP PO-9000007968 &amp; 5200022239</b> )	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 ( <b>SAP PO- 5100014415</b> )	39,87,747
AMR Phase-4	ER-II/KOL/CS/I-2446/P-2420/1929 <b>Dated:</b> 20-Jul-2020 ER-II/KOL/CS/I-2446/P-2420/AMEND-II/4374 <b>Dated:</b> 05-Jul-2021/ER-II/KOL/CS/I-2446/P-2420/AMEND-III/6493 <b>Dated:</b> 07-Jun-2022 ( <b>SAP PO- 5100032889</b> )	1,30,19,265
AMR Phase-1&2 AMC renewal	ER-II/KOL/CS/I-2724/P-2702/4285 Dated: 02-Jun-2021 ( <b>SAP PO- 5100035446</b> )	2,56,33,881
AMR LAN Integration work	ER-II/KOL/CS/I-3499/P-3414/6841 dated 01.09.2022 ( <b>SAP PO- 5100043386</b> )	27,40,552
AMR Phase-3 AMC renewal for 249 SEM	ER2/NT/S-AMC/DOM/E00/22/00692/1000000986/I-3645/P-3556/8045 <b>Dated</b> 29.12.2022 ( <b>SAP PO- 5200059035</b> )	27,21,270
AMR data center hardware and software application refreshment	ER-II/KOL/CS/I-3370/P-3289/6577 Date: 24.06.2022 ( <b>SAP PO- 5100041788</b> )	1,58,12,000
Transportation of Smart Meter to Binaguri	SAP PO - 4800017144	-
Mobile data for AMR	SAP PO - 5200033984	1,44,997
Mobile data for AMR	SAP PO - 5200037273	1,91,054
Mobile data for AMR	SAP PO - 5200054713	2,57,832
Mobile data for AMR	SAP PO - 5200054715	2,05,724
	<b>Total</b>	6,68,91,714
	Consultancy Fees @ 15%	1,00,33,757
	GST on Consultancy Fees @ 18%	18,06,076
	<b>Grand Total</b>	<b>7,87,31,547</b>

### **Deliberation in the meeting**

*Representative of Powergrid submitted that the consultancy charges have been provided which were not included earlier.*

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CCM approved the revised cost of Rs. 7,87,31,547/- inclusive of Taxes and referred the issue to the upcoming TCC & ERPC Meetings for further concurrence.

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

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

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

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
WEST BENGAL	400 KV	125 MVAR	DURGAPUR SS
		80 MVAR	BINAGURI SS
		63 MVAR	BINAGURI SS
SIKKIM	400 KV	80 MVAR	RANGPO SS
	220 KV	31.5 MVAR	NEW MELLI SS
BIHAR	400 KV	125 MVAR	BIHARSARIFF SS
		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 202<sup>nd</sup> 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 49<sup>th</sup> 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 49<sup>th</sup> 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.

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

*Representative of ERPC submitted that the availability of spare reactors as per above-mentioned table is as per the CEA guidelines.*

*After detailed deliberations CCM advised for procurement of 125 MVA reactor for West Bengal, Bihar and Jharkhand and explore the possibilities for procurement of 63 MVA Reactor in lieu of 50/80 MVA Reactor for more redundancy.*

*CCM further advised Powergrid to submit the cost estimate in the upcoming TCC/ERPC meeting.*

*The issue is referred to the upcoming TCC/ERPC Meeting.*

#### **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 commissioning	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-Kishanganj 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	
8	220kV D/C Siliguri-Binaguri TL	6	6	Zebra	1986	
9	220kV S/C Birpara-Malbase TL	41	38	Zebra	1988	
	<b>Total</b>		<b>470.73</b>			
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: -

Sl 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	Average 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

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.

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

*Representative of ERPC highlighted the seriousness of re-conductoring & earth-wire replacement of 220kV Lines commissioned under Chukha Transmission System in view of the continuous increase in flow of power through these lines. Injection from Phunatsangchhu is also likely to be started shortly. Considering the facts reliability of the said lines of CTS is very important.*

*Representative of Powergrid submitted that the cost mentioned above is tentative and the final cost would be approved in CCM forum before further submission to CERC under ADDCAP 2024-2029 block.*

*Upon enquiring about the timelines for completion of project, representative of Powergrid submitted that nearly 24 months would be required from the date of approval and till commissioning of the lines.*

*CCM approved the re-conductoring work with HTLS conductor & Earth-wire replacement in above mentioned 9(Nine) lines 470.73 KM route length with approx. cost of Rs. 281 Crores. and further advised Powergrid to carry out the healthiness checkup work of tower members along with the re-conductoring work.*

*CCM referred the issue to the upcoming TCC/ERPC meeting for further concurrence.*

### 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.

#### **Project timeline has been considered as below (28 Months)**

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

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 Sub-committee meeting for relevant discussion.

In the 208<sup>th</sup> 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 Sub-committee meeting for relevant discussion.”

### **Deliberation in the meeting**

*Representative of ERPC highlighted the importance of AMR in the metering and accounting settlement in brief.*

*After detailed deliberation, CCM approved the AMR phase-5 implementation in Eastern Region and referred the issue to the upcoming TCC/ERPC meeting for further approval.*

**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 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.

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 taken up in the next CCM meeting for necessary deliberation.”

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

*Representative of West Bengal requested for exemption of VAR charges due to long outage of 50 MVA reactor at Jeerat S/s.*

*On enquiry, representative of Powergrid confirmed that the said reactor would be restored by 15<sup>th</sup> January 2024.*

*After detailed deliberation, CCM agreed on exemption of weekly VAR charges imposed on WBSETCL during the faulty period of the 50 MVA reactor and advised ERPC Secretariat to revise the Reactive Energy Accounts accordingly.*

<b>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.</b>
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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.

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

*Representative of WBSETCL submitted that previously the bills were being raised directly on the DISCOMs by ERLDC. However, after implementation of new GNA Regulations, the bill has been raised directly to WB SLDC and in absence of any available modalities for segregation of bills, they are not able to raise the bills to the intra-state entities.*

*Representative of ERLDC submitted that they would raise the bill to SLDC and provide the sub-user categorisation for all the embedded entities in the attached annexure. The SLDC would collect the amount from the respective entities and submit to ERLDC.*

*Representative of West Bengal requested ERLDC to submit the bifurcation of the previously submitted bills. ERLDC agreed for the same.*

<b>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.</b>
--

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.

### **Deliberation in the meeting**

*Representative of ERLDC submitted that they would raise the bill to SLDC and provide the sub-user categorisation for all the embedded entities in the attached annexure. The SLDC would collect the amount from the respective entities and submit to ERLDC.*

*Representative of West Bengal submitted that the bills raised for FY 2021-22 and 2022-23 should have been raised directly on WBSETCL as GNA was not effective during this period. SLDC West Bengal would act as a nodal agency for all the submitted bills as per new GNA regulation subject to bifurcation by ERLDC.*

*Representative of ERLDC requested SLDC West Bengal to forward the bill to WBSETCL. WB SLDC agreed for the same after implementation of necessary corrections in the bill by ERLDC.*

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

JBVNL may explain. Members may discuss.

### **Deliberation in the meeting**

*Representative of CTUIL submitted that the GNA segregation has been done as per the mail received from SLDC Jharkhand dated 9<sup>th</sup> November 2022, wherein the bifurcation of 1110 MW has been shown as 70 MW for Railways and balance 1040 MW for JBVNL. Also, SLDC DVC vide mail dated 23<sup>rd</sup> May 2023 has specified the GNA quantum of 276 MW for JBVNL out of 956 MW.*

*Representative of Jharkhand submitted that the quantum of power drawn by Jharkhand from Koderma generating station of DVC is not through the CTU lines.*

*Representative from CTUIL further submitted that the responsibility of calculation of waiver for all the Drawee DIC's lies with NLDC and RTA for the billing period of October 2023 has been calculated on a State-wise basis rather than DIC wise. This issue has already been discussed with NLDC and the necessary revisions in this regard would be published by NLDC after consideration of waiver on a DIC wise basis.*

*Representative of DVC submitted that a revised letter regarding segregation of GNA quantum of DVC has already been sent to NLDC.*

*After detailed deliberation, CCM advised ERPC secretariat to convene a special meeting among the stakeholders to resolve the above issue at the earliest.*

#### **ITEM NO. B.8: Agenda by NTPC – Additional Agenda.**

##### **B.8.1. Unviable Schedule below Technical Minimum:**

Some of beneficiaries are having significant allocation (30-86 %) from NTPC's stations. These Generating stations cannot run if major beneficiaries do not provide viable schedule to the same.

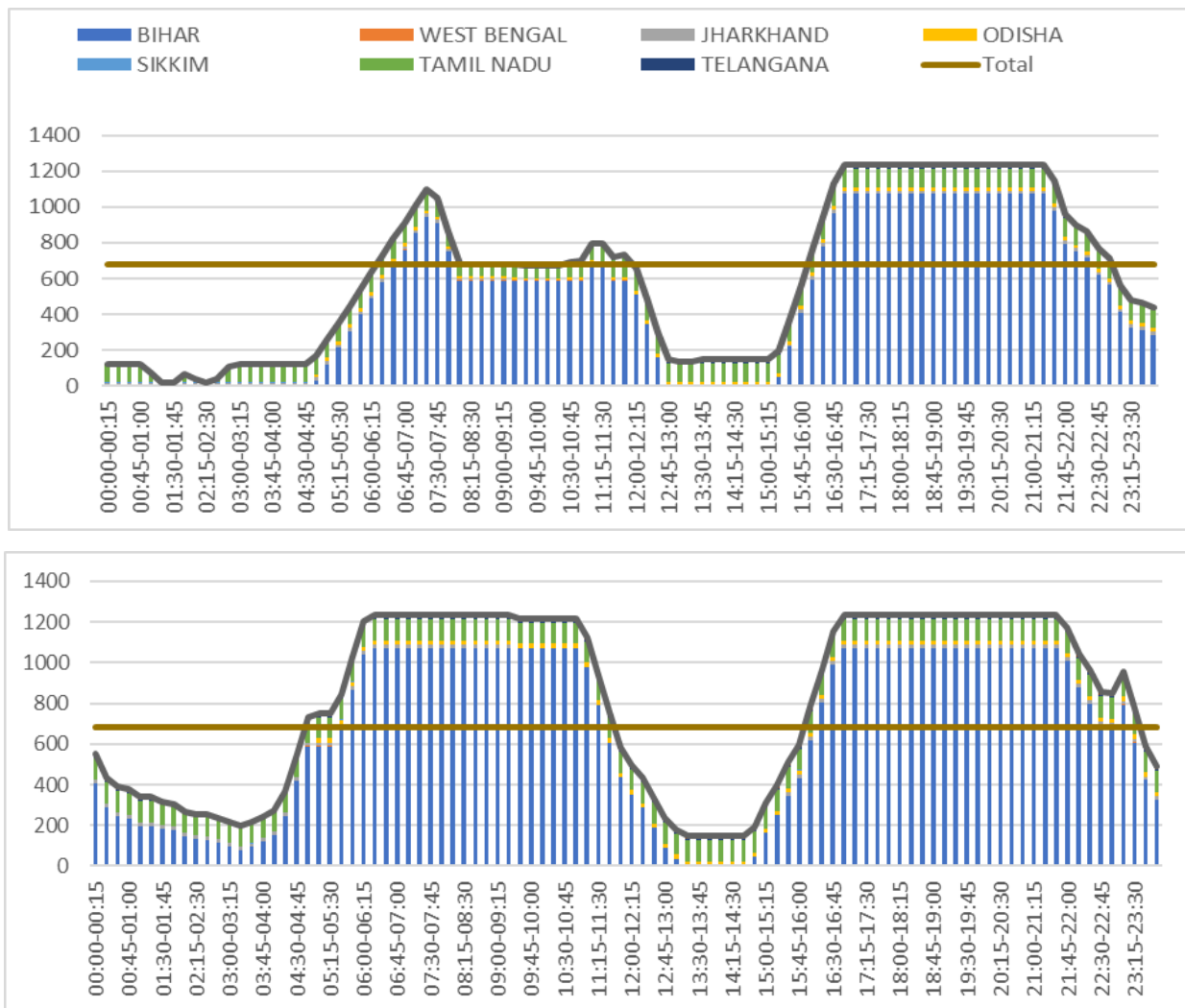
Consequent to implementation of CERC (IEGC) Regulations, 2023, the beneficiary states have started giving an unviable schedule to the generating stations i.e. much below technical Minimum. It is observed that during off peak hours, some of the beneficiaries give "zero/insignificant" schedule and during peak hours they force the generator to cater their demand with full schedule.

The unviable schedule below technical minimum by the customers drags the generator in undecisive state. If the technical minimum to be maintained by the generator for continuity of the services to cater beneficiaries' peak demand, the generator is forced to feed the deferential energy into the grid, resulting in heavy DSM, commercial and operational loss. If Generator opts for Reserve shut down, then also, it encounters monetary loss in terms of AFC. It is felt that the Generator cannot bid the power in the exchanges in a. DAM due to change in schedule by beneficiaries in D Day also. b. RTM due to uncleared volume on account of lower rate below ECR and DSM implications.

The generator has been accruing a huge loss to maintain operational balance in an unsustainable manner which cannot be continued in long term.

The intervention of the forum is sought on the following points.

- The beneficiaries which have significant allocation should act more responsibly keeping their peak hours demand in consideration and maintain the Technical Minimum (TM) scheduling.
- Support to be provided by the system operator below TM.
- RSD/USD to be permitted without supply obligation particularly if schedule is less than TM in 10% or more blocks.
- Alternative mechanism / Compensation mechanism to make up the loss for the operating below Technical Minimum or maintaining Technical Min.



### **Deliberation in the meeting**

*Representative of Bihar submitted that they are constantly adhering to the technical minimum schedule in case of D days and in case of D-1 days the schedules are being declared beforehand which can be sold by the generating station in the power market.*

*CCM stressed upon the fact that any Commercial decision should not be taken at the cost of Operational parameters and safety of the grid and advised all the major beneficiaries of the generating station to maintain technical minimum schedule during off-peak hours also in order to prevent the unit from going under reserve shutdown and make it available for peak hours.*

*CCM advised ERLDC to explore the possibilities of minimizing the back down of units due to schedule below technical minimum.*

*Further CCM advised Bihar to manage its schedule from generating stations where it has major share in order to minimize load shedding. Also, Bihar was advised to take up the issue of merit order dispatch during off-peak hours with their Regulatory Commission to avoid any shortage of power during peak hours.*

*The issue is referred to the upcoming TCC/ERPC Meeting for further deliberation.*

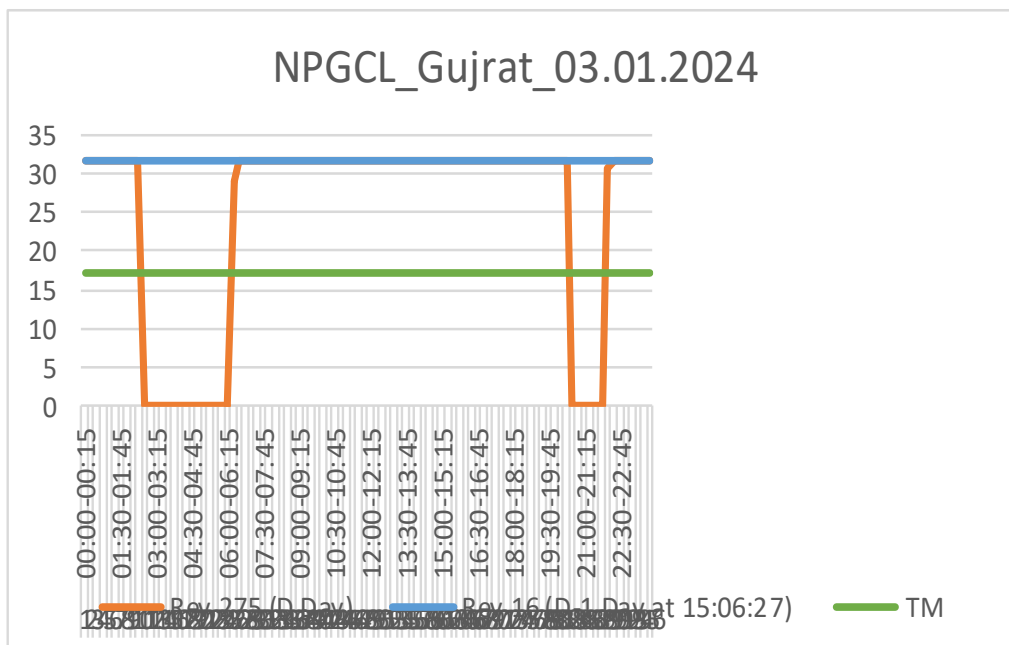
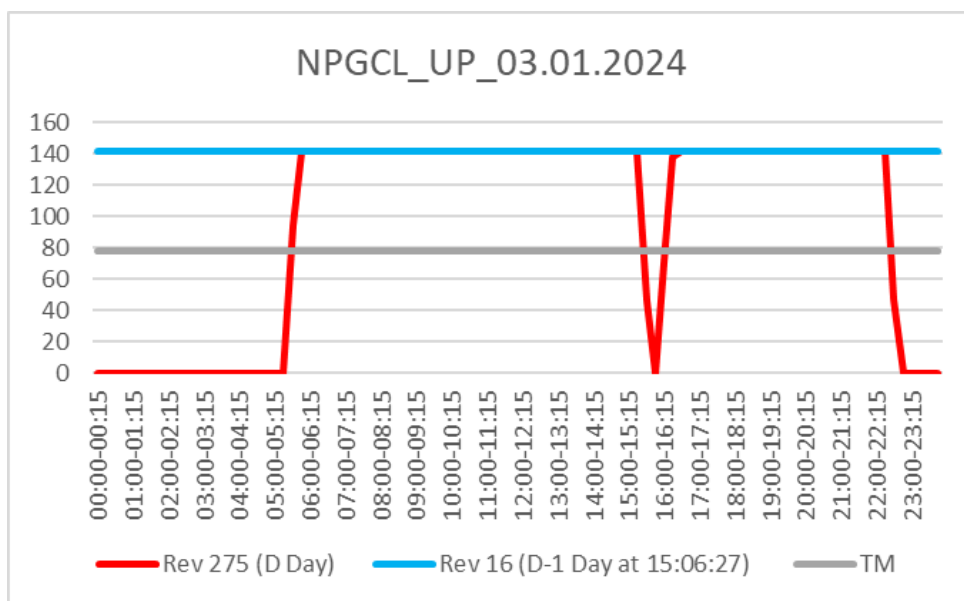
### B.8.2. Revision of SG on D-day by beneficiaries below Technical Minimum:

CERC's order 18 /SM/2023 dtd\_18.12.2023 in the matter of removal of difficulties (Second Order) in giving effect to certain provisions of Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023, restricts the beneficiaries to revise the schedule below Technical Minimum post 14:30 hours on D-1 day.

Many beneficiaries are continuing to revise schedule after the stipulated time and below technical minimum. The same has been brought into consideration to all the concerned by the generators. It is contrary to applicable clauses of IEGC-2023.

The intervention of the forum is requested:

The directives as per 18/SM/2023 w.r.t IEGC-2023 may be incorporated in the scheduling Software.



### **Deliberation in the meeting**

*Representative of NTPC submitted that provisioning of revision of schedule below technical minimum entitlement corresponding to the beneficiaries should not be allowed beyond 14:20 hrs. of D-1 day as per the provisions of CERC's order 18 /SM/2023 dtd\_18.12.2023 in the matter of removal of difficulties and Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023.*

*Representative of ERLDC submitted that the same is yet to be implemented in the WBES Scheduling software.*

*CCM directed ERLDC to issue a notice to all the beneficiaries for non-revision of schedules below technical minimum entitlement beyond 14:30 hrs. of D-1 day as per prevailing CERC IEGC regulations & suo moto order dated 18.12.2023 and implement the same in the WBES Scheduling software at the earliest.*

*The issue is referred to the upcoming TCC/ERPC meeting for further deliberation.*

### **B.8.3. DSM Account Revision:**

Various discrepancies in published accounts as communicated to ERPC are still pending for revision since April 2023. Most of the cases are pertaining to non-inclusion of unit outages in DSM calculations. The list is as below.

<b>Week Description</b>	<b>Amt. - (-) payable /(+)  receivable)</b>	<b>Reason</b>	<b>Date</b>	<b>Remark</b>
Week 4	-3068.16	Barh 1 AGC		
Week 5	-408	Barh 1 AGC		
	6754896	NPGC unit outages block (81 to 86)	24.04.23	
Week 9 (22-28.05.23)	-298935.38	Barh 1 /Block 91/92/93/94	22.05.23	
Week 11(05 - 11.06.23)	408944.94	Barh 1 block 31/32/33/34 trip	09.06.23	
Week 12(12-18.06.23)	23182	Barh 1 tripping in 75th block/taken in 74th block /high frequency /low load meaning saving	17.06.23	
Week 14(26.06.23-02.07.23)	664825	Farakka I& II block 80 Unit 2 trip	01.07.23	
Week 16(10.07.23-16.07.23)	325600	Kanti unit 4 tripped in Block 73,74	11.07.23	
Week 18(24.07.23-30.07.23)	12094	Barh 2 block 73,74,75 not matching	25.07.23	
Week 19(31.07.23 to 06.08.23)	580028.0827	Farakka Unit 3 trip/ Block 23 to 28	06.08.23	
	506293.9276	Farakka Unit 7 trip/ Block 47 to 53	04.08.23	
	273864.5552	Talcher Unit 1 trip/ Block 31 to 36	31.07.23	
Week 20(07.08.23 to 13.08.23)	1103611.666	Farakka Unit 3 trip/ Block 84 to 90	10.08.23	
Week 21(14.08.23-20.08.23)	757625.3068	Farakka Unit 3 trip / Block 95 & 96	20.08.23	
	-31154	Tripping taken in stage 3 Farakka	20.08.23	
	7293	Kahalgaon Unit 1 trip //Block 16	20.08.23	
	57384.3819	Kahalgaon Stage 2 16.08.23 block1,2,3,4/18.08.23 block 1,19.08.23 block 1	16.08.23	
Week 22(21.08.23 - 28.08.23)	1785680	Farakka Unit 3 trip 20.08.23 carry forward in NEXT DATE	21.08.23	Kahalgaon AGC not

				published.
	-89041	Tripping taken in stage 3 farakka	21.08.23	
Week 23(29.08.23-03.09.23)	227782.5945	Farakka Unit 1 trip in 84 block/taken from 85 block	30.08.23	AGC not included in DSM
	12904882.84	Darlipali Unit 2 trip block 37	30.08.23	
Week 27(25.09.23-01.10.23)	14518.56594	Barh Unit 4 Tripping in Block 17	25.09.23	Block 17 not included in tripping
	-154	Talcher ECR incorrectly taken by ERPC	All week	
	1203.621972	Kahalgaon Unit3 trip, Block 33	01.10.23	Tripping in block 27, schedule revised, taking at tripping rate in block 33
Week 28(02.10.23-08.10.23)	777.15	Talcher ECR incorrectly taken by ERPC	All week	SRAS Talcher variable cost not matching
Week 29(09.10.23-15.10.23)	223.91	Talcher ECR incorrectly taken by ERPC	All week	
Week 31(23.10.23-29.10.23)	68229.25	Farakka Unit 1 tripping in block 41	25.10.23	
<b>Total Receivable by NTPC (₹)</b>	<b>2,60,56,180</b>	<b>₹ 2.61 Cr.</b>		

### Deliberation in the meeting

*CCM advised ERPC secretariat to revise the accounts as per prevailing regulations and circulate the same among the beneficiaries at the earliest.*

### **ITEM NO. B.9: 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:**

	<b>JBVNL</b>
<b>DSM (in Cr)</b>	₹ 54.54 Cr /-
<b>Reactive (in Cr)</b>	-
<b>LC</b>	LC Partially opened of ₹ 1.39 Cr.
<b>Due date of expiry of LC</b>	14-03-2024
<b>Reconciliation</b>	DSM: Pending from Q2 of FY 2020-21
	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	-
Reconciliation	DSM: Pending from Q2 of FY 2019-20 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**.

**Deliberation in the meeting**

Representative of Jharkhand informed that DSM outstanding will be cleared by February'2024.

Representative of Sikkim informed that DSM outstanding will be cleared by January'2024

*CCM advised all the constituents to clear the outstanding dues at the earliest.*

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

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**.

**Deliberation in the meeting**

*OPGC was not present during the discussion.*

*CCM advised all the constituents to clear the outstanding dues at the earliest.*

**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 -

Sl 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

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

*CCM advised all the constituents to open the requisite amount of LC at the earliest as per prevailing CERC regulation.*

#### **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**.

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

*Members noted.*

#### **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/dsmreconciliation/>. The status of reconciliation as on 04.01.2024 is enclosed in **Annexure- VI and VII**.

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

*CCM advised all the Constituents to take necessary action for the signing of pending reconciliation statements at the earliest.*

#### **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**.

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

*CCM advised all the constituents to update the status of reconciliation at the earliest.*

### **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**.

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

*CCM advised all the constituents to update the status of reconciliation at the earliest.*

### **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**.

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

*CCM advised all the constituents to update the status of reconciliation at the earliest.*

### **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.

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

*After detailed deliberation, CCM raised serious concern over delay in the procurement of meters and advised CTU/PGCIL to expedite the procurement activities.*

#### **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.

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

*Representative of ERLDC submitted that in case of fault in main meters, issues would be observed in the validation of data.*

*CCM advised Bihar to rectify the issue at the earliest.*

#### **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.**

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

*Representative of ERLDC requested Powergrid to replace the lot of Genus make meters which are getting time drifted.*

*CCM advised CTUIL/Powergrid to replace the Genus make meters at the earliest.*

#### **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.**

**Deliberation in the meeting**

*CCM advised CTU/PGCIL for immediate replacement of faulty cables at all the necessary locations.*

**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.**

**Deliberation in the meeting**

*Representative of Powergrid submitted that due to publishing of huge data from a false Id, latency is being created in the system and AMR data flow is being affected. Identification of exact node from which false data is published is not being possible.*

*CCM advised that ERPC secretariat to convene a separate Communication meeting at the earliest for further deliberation of the issues.*

<b>ITEM NO. B.10: Agenda by Powergrid-ER-I.</b>
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**A. Non-Opening of requisite amount of LC:**

- (i) 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 (NBPDC)	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**.

**Deliberation in the meeting**

*CCM advised all the constituents to open requisite amount of LC at the earliest.*

**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 (NBPDCCL)	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
	<b>Total</b>	<b>1013.52</b>	<b>254.95</b>

**Deliberation in the meeting**

*CCM advised all the constituents to clear the outstanding dues at the earliest.*

**C. Non-payment of RTDA bills:**

The following DIC's are not paying RTDA bills:

SI No	Name of DIC's	Outstanding dues	Remarks
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(i)	West Bengal State Electricity Distribution Company Ltd. (WBSEDCL)	<b>9.76 Cr.</b>	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.
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### **Deliberation in the meeting**

*CCM advised all the constituents to clear the outstanding bills at the earliest.*

### **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 B.8**.

### **Deliberation in the meeting**

*Representative of ERLDC submitted that relevant data regarding trial run of 3x80 MVAR Line Reactor is not available with them.*

*CCM advised ERLDC to provide the trial run certificate at the earliest.*

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

<b>A</b>	<b><i>Provision of Spare ICTs in Eastern Region</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
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

<b>B</b>	<b><i>Provision of Spare ICTs in Eastern Region</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
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
<b>C</b>	<b><i>Establishment of Communication System under Expansion/ Upgradation of SCADA/ EMS System at SLDCs of ER (BSPTCL and DVC) links</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
1	MTPS-Gopalganj (100.35 km)	01-02-2021	DOCO Letter Dtd. 07.08.2023	ER-I
2	Siwan-Gopalganj (30.12 km)	07-07-2020		
3	Saharsa- Purnea (BH) (101.11 km)	01-06-2019		
4	Kahalgaon (BH)- Kahalgaon (NTPC) (5.71 km)	10-09-2022		
5	Hathidah- Lakhisarai (BH) (28.98 km)	14-05-2022		
<b>D</b>	<b><i>Fibre Optic Communication System in Eastern Region under expansion of wideband communication system in Eastern Region</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
1	Biharshariff-Banka (OPGW cable 24 F), Length= 183.872 km	27-06-2023	DOCO Letter Dtd. 22.08.2023	ER-II
<b>E</b>	<b><i>POWERGRID works associated with Transmission System Strengthening in Indian System for transfer of power from new HEPs in Bhutan</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
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 Dtd. 04.09.2023	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)			
<b>F</b>	<b><i>Project-ERSS-XVII-B</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>

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
<b>G</b>	<b><i>Establishment of Reliable Communication Scheme Under Central sector for Eastern Region.</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
1	Alipurduar-Salakati (OPGW Cable 24 F), 109.264 KM in Length	23-02-2022	DOCO Letter Dtd. 04.09.2023	ER-II
<b>H</b>	<b><i>Provision of Spare ICTs in Eastern Region</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
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.
<b>I</b>	<b><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</i></b>	<b>DOCO</b>	<b>Remarks</b>	<b>Region</b>
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.

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

Representative of Powergrid informed that the 500 MVA spare ICT at Maithon has already been declared CoD on 05.12.2023.

Members noted.

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