

भारत सरकार Government Of India विद्युत मंत्रालय Ministry Of Power पूर्वी क्षेत्रीय विदयुत समिति

#### Eastern Regional Power Committee

14 Golf Club Road, Tollygunje-70033 Website: <u>www.erpc.gov.in</u>

### सं /NO. ERPC/EE/OPERATION/2024/1695

दिनांक/DATE: 04.03.2024

सेवा में /To संलग्न सूची के अनुसार /As per list enclosed.

विषय :22.02.2024 (गुरुवार) को माइक्रोसॉफ्ट टीम्स ऑनलाइन मीटिंग प्लेटफॉर्म के माध्यम से आयोजित 212वीं ओसीसी बैठक का कार्यवृत्त - संबंध में।

Sub: Minutes of 212<sup>th</sup> OCC Meeting held on 22.02.2024 (Thursday) through Microsoft Teams online meeting platform - reg.

महोदय/महोदया, Sir(s)/Madam,

कृपया अपनी जानकारी और आवश्यक कार्रवाई के लिए 22.02.2024 (गुरुवार) को माइक्रोसॉफ्ट टीम्स ऑनलाइन मीटिंग प्लेटफॉर्म के माध्यम से 10:30 बजे आयोजित 212वीं ओसीसी बैठक के संलग्न कार्यवृत्त देखें। यह ईआरपीसी वेबसाइट (www.erpc.gov.in) पर भी उपलब्ध है।

Please find enclosed **Minutes of 212th OCC Meeting** held on **22.02.2024 (Thursday)** through Microsoft Teams online meeting platform at 10:30 hrs for your kind information and necessary action. The same is also available at ERPC website (www.erpc.gov.in).

टिप्पणियाँ, यदि कोई हों, कृपया यथाशीघ्र इस कार्यालय को अग्रेषित करें। Observations, if any, may please be forwarded to this office at the earliest.

इसे सदस्य सचिव के अनुमोदन से जारी किया जाता है। This issues with the approval of Member Secretary.

सम्मान /Regards,

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आपका विश्वासी /Yours faithfully,

4/03/2024

(S.Kejriwal) SE (Operation) एसई (ऑपरेशन)

#### LIST OF ADDRESSES:

- CHIEF ENGINEER (TRANS., O&M), BSPTCL, PATNA, (FAX NO. 0612-2504557/2504937)
- 2. CHIEF ENGINEER (System Operation), BSPTCL, PATNA, (FAX NO. 0612-2504557/2504937)
- 3. CHIEF ENGINEER, TRANSMISSION (O&M), JUSNL, RANCHI (FAX NO.-0651-2490486/2490863)
- 4. CHIEF ENGINEER, TVNL, DORANDA, RANCHI 834102 (FAX NO. 06544-225414)
- 5. CHIEF LOAD DISPATCHER, SLDC, OPTCL, BHUBANESWAR (FAX NO.0674-2748509)
- 6. CHIEF GENERAL MANAGER (O&M), OPTCL, BHUBANESWAR
- 7. SR. GENERAL MANAGER (PP), GRIDCO, JANPATH, BHUBANESWAR (0674-2547180)
- 8. DIRECTOR (OPERATION), IB TPS, AT/PO BANHARPALI, JHARSUGUDA, (FAX NO. 06645-222225/222230)
- 9. GENERAL MANAGER, TTPS, TALCHER, (FAX NO. 06760-243212)
- SR. GENERAL MANAGER (ELECTRICAL), OHPC LTD., BHUBANESWAR, (FAX NO.0674-2542102)
- 11. CHIEF ENGINEER, CLD, WBSETCL, HOWRAH, (FAX NO. 033-26886232)
- 12. CHIEF ENGINEER, CENTRAL PLANNING WING, WBSETCL, SALT LAKE (FAX NO.: 033-23591955)
- 13. CHIEF ENGINEER (PTR), WBSEDCL, SALT LAKE, KOLKATA (FAX:033-23345862)
- **14.** CHIEF GENERAL MANAGER (OS), WBPDCL, KOLKATA-98 (FAX NO. 033-23393286/2335-0516)
- 15. GM, KOLAGHAT TPS, WBPDCL, KOLAGHAT (FAX NO.03228231280)
- 16. DGM (OPERATION), DPL, DURGAPUR, (FAX NO. 0343-2555052)
- 17. GM (SYS OPERATION), CESC, CHOWRINGHEE SQUARE, KOLKATA (FAX NO.033-22253756/22129871)
- 18. CHIEF ENGINEER, SLDC, DVC, HOWRAH (FAX NO. 033-2688-5094)
- **19.** ADDL.CHIEF ENGINEER, SLDC, POWER DEPT., GOVT. OF SIKKIM, GANGTOK, (FAX NO. 03592-228186/201148/202284)
- **20.** EXECUTIVE DIRECTOR, ERLDC, POSOCO, KOLKATA, (FAX NO. 033-2423-5809)
- **21.** GENERAL MANAGER, FSTPP, NTPC, FARAKKA, (FAX NO. 03512-224214/226085/226124)
- 22. GENERAL MANAGER, KhSTPP, NTPC, KAHALGAON (FAX NO.06429-226082)
- 23. GENERAL MANAGER, TSTPP, NTPC, TALCHER, (FAX NO. 06760-249053)
- 24. GENERAL MANAGER (OS), POWERGRID, ER-II, KOLKATA( Fax no: 033-23572827)
- 25. GENERAL MANAGER, POWERGRID, ER-I, PATNA, (FAX NO.0612-2531192)
- **26.** GENERAL MANAGER (O&M), POWERGRID, ODISHA PROJECTS, SAHID NAGAR, BHUBANESWAR 751 007
- **27.** MANAGING DIRECTOR, DRUK GREEN POWER CORPORATION, P.O. BOX -1351, THIMPU, BHUTAN —(FAX NO 00975- 2336411)
- **28.** MANAGING DIRECTOR, BHUTAN POWER CORPORATION, P.O.BOX-580, THIMPU, BHUTAN (FAX NO. 00975-2333578)
- **29.** CHIEF ENGINEER (O&M), TALA H.E.PROJECT, BHUTAN (FAX NO. 009752/324803)
- 30. EXECUTIVE DIRECTOR (O&M), NHPC, FARIDABAD (FAX No.:0129-2272413)

- **31.** GENERAL MANAGER, TEESTA –V POWER STATION, NHPC, SINGTAM, EAST SIKKIM (FAX 03592 247377)
- **32.** CHIEF ENGINEER, RANGIT POWER STATION, NHPC, P.O. RANGIT NAGAR, SOUTH SIKKIM (FAX NO.03595-259268)
- **33.** SENIOR VICE PRESIDENT, PTC LTD., NBCC TOWERS, 15-BHIKAJI KAMA PLACE, NEW DELHI- 110066 (FAX NO. 011-41659504)
- **34.** PLANT HEAD, ADHUNIK POWER & NATUARAL RESOURCES, JHARKHAND( FAX NO.: 0657-6628440)
- 35. AGM (OPERATION), MAITHON POWER LTD, DHANBAD (FAX: 08860004758)
- **36.** VICE PRESIDENT(POWER), VEDANTA LIMITED, BHUBANESWAR- 751023 (FAX NO 0674-2302920)
- **37.** CHIEF ELECTRICAL ENGINEER, EASTERN RAILWAY, KOLKATA-700 001 (FAX NO.: 033-22300446)
- **38.** CHIEF ELECTRICAL ENGINEER, SOUTH EASTERN RAILWAY, KOLKATA-43 (FAX: 033-24391566)
- **39.** DEPUTY DIRECTOR, EASTERN RPSO, SALT LAKE, KOLKATA- (FAX NO:033-23217075)
- 40. GENERAL MANAGER (O&M), NHPC LTD, FARIDABAD, FAX: 0129-2272413
- **41.** ASSOCIATE VICE PRESIDENT, GMR KEL, BHUBANESWAR-751007. (FAX NO: 0674-2572794)
- **42.** GM (SO & COMML), NTPC VVNL, NEW DELHI-110033. Fax:011-24367021
- **43.** SHRI D. P. BHAGAVA, CHIEF CONSULTANT (O&M), TEESTA URJA LIMITED, NEW DELHI-110 001 (FAX:011-46529744)
- 44. SHRI BRAJESH KUMAR PANDE, PLANT HEAD, JITPL. (FAX:011-26139256-65)
- **45.** DIRECTOR (NPC), CEA, NRPC BUILDING, KATWARIA SARAI, NEW DELHI- 110016
- **46.** DGM (OS), HALDIA ENERGY LIMITED, BARIK BHAWAN, KOKATA-700072, FAX: 033-22360955
- 47. GENERAL MANAGER(O&M), BRBCL, NABINAGAR, BIHAR-824003, FAX-06332-233026

CC:

Chief Engineer, OPM, CEA	Chief Engineer, NPC, CEA	ASSISTANT
		SECRETARY, ERPC

### <u>पतों की सूची:</u>

1. मुख्य अभियंता (ट्रांस., ओ एंड एम), बीएसपीटीसीएल, पटना, (फैक्स नं. 0612- 2504557/2504937)।

2. मुख्य अभियंता (सिस्टम ऑपरेशन), बीएसपीटीसीएल, पटना, (फैक्स नं. 0612- 2504557/2504937)।

3. मुख्य अभियंता, ट्रांसमिशन (ओ एंड एम), जेयूएसएनएल, रांची (फैक्स नं.-0651- 2490486/2490863)।

4. मुख्य अभियंता, टीवीएनएल, डोरंडा, रांची - 834102 (फैक्स नंबर 06544-225414)

5. मुख्य लोड डिस्पैचर, एसएलडीसी, ओपीटीसीएल, भुवनेश्वर (फैक्स नंबर 0674-2748509)

6. मुख्य महाप्रबंधक (ओ एंड एम), ओपीटीसीएल, भुवनेश्वर

7. एसआर. महाप्रबंधक (पीपी), ग्रिडको, जनपथ, भुवनेश्वर (0674-2547180)

8. निदेशक (संचालन), आईबी टीपीएस, एटी/पीओ बनहरपाली, झारसुगुड़ा, (फैक्स नंबर 06645-222225/222230)

9. महाप्रबंधक, टीटीपीएस, तालचेर, (फैक्स नंबर 06760-243212)

10. एसआर. महाप्रबंधक (विद्युत), ओएचपीसी लिमिटेड, भुवनेश्वर, (फैक्स नंबर 0674-2542102)

11. मुख्य अभियंता, सीएलडी, डब्ल्यूबीएसईटीसीएल, हावड़ा, (फैक्स नंबर 033-26886232)।

12. मुख्य अभियंता, केंद्रीय योजना विंग, डब्ल्यूबीएसईटीसीएल, साल्ट लेक (फैक्स नंबर: 033-23591955);

13. मुख्य अभियंता (पीटीआर), डब्ल्यूबीएसईडीसीएल, साल्ट लेक, कोलकाता (फैक्स:033-23345862)।

14. मुख्य महाप्रबंधक (ओएस), डब्ल्यूबीपीडीसीएल, कोलकाता-98 (फैक्स नंबर 033- 23393286/2335-0516)।

15. जीएम, कोलाघाट टीपीएस, डब्ल्यूबीपीडीसीएल, कोलाघाट (फैक्स नंबर 03228231280)

16. डीजीएम (ऑपरेशंस), डीपीएल, दुर्गापुर, (फैक्स नंबर 0343-2555052)

17. जीएम (एसवाईएस ऑपरेशन), सीईएससी, चौरंगी स्कायर, कोलकाता (फैक्स नंबर 033- 22253756/22129871)।

18. मुख्य अभियंता, एसएलडीसी, डीवीसी, हावड़ा (फैक्स नंबर 033-2688-5094)।

19. अपर मुख्य अभियंता, एसएलडीसी, विद्युत विभाग, शासन। सिक्किम, गंगटोक, (फैक्स नंबर 03592-

228186/201148/202284)

20. कार्यकारी निदेशक, ईआरएलडीसी, पोसोको, कोलकाता, (फैक्स नंबर 033-2423-5809)

21. महाप्रबंधक, एफएसटीपीपी, एनटीपीसी, फरक्का, (फैक्स नंबर 03512- 224214/226085/226124)

22. महाप्रबंधक, खएसटीपीपी, एनटीपीसी, कहलगांव (फैक्स नंबर 06429-226082)

23. महाप्रबंधक, टीएसटीपीपी, एनटीपीसी, तालचेर, (फैक्स नंबर 06760-249053)

24. महाप्रबंधक (ओएस), पावरग्रिड, ईआर-॥, कोलकाता (फैक्स नंबर: 033-23572827)

25. महाप्रबंधक, पावरग्रिड, ईआर-।, पटना, (फैक्स नं.0612-2531192)

26.महाप्रबंधक (ओ एंड एम), पावरग्रिड, ओडिशा प्रोजेक्ट्स, साहिद नगर, भुवनेश्वर - 751 007

27. प्रबंध निदेशक, ड्रूक ग्रीन पावर कॉर्पोरेशन, पी.ओ. बॉक्स -1351, थिम्पस, भूटान - (फैक्स नंबर 00975-2336411)

28. प्रबंध निदेशक, भूटान पावर कॉर्पोरेशन, पी.ओ.

29. मुख्य अभियंता (ओ एंड एम), ताला एच.ई.प्रोजेक्ट, भूटान (फैक्स नंबर 009752/324803)

30. कार्यकारी निदेशक (ओ एंड एम), एनएचपीसी, फरीदाबाद (फैक्स नंबर:0129-2272413)

31. महाप्रबंधक, तीस्ता-वी पावर स्टेशन, एनएचपीसी, सिंगतम, पूर्वी सिक्किम (फैक्स 03592 - 247377)।

32. मुख्य अभियंता, रंगीत पावर स्टेशन, एनएचपीसी, पी.ओ. रंगीत नगर, दक्षिण सिक्किम (फैक्स नंबर 03595-

259268)

33. वरिष्ठ उपाध्यक्ष, पीटीसी लिमिटेड, एनबीसीसी टावर्स, 15-भीकाजी काम प्लेस, नई दिल्ली-110066 (फैक्स नंबर

011-41659504)|

34. प्लांट हेड, आधुनिक पावर एवं नेचुरल रिसोर्सेज, झारखंड (फैक्स नं.: 0657-6628440)।

35. एजीएम (ऑपरेशंस), मैथन पावर लिमिटेड।

36. उपाध्यक्ष (विद्युत), वेदांता लिमिटेड, भुवनेश्वर- 751023 (फैक्स नंबर 0674-2302920)।

37. मुख्य विद्युत अभियंता, पूर्वी रेलवे, कोलकाता-700 001 (फैक्स नं.: 033-22300446)

38. मुख्य विद्युत अभियंता, दक्षिण पूर्व रेलवे, कोलकाता-43 (फैक्स: 033-24391566)।

39. उप निदेशक, पूर्वी आरपीएसओ, साल्ट लेक, कोलकाता- (फैक्स नं: 033- 23217075)

40. महाप्रबंधक (ओ एंड एम), एनएचपीसी लिमिटेड, फरीदाबाद, फैक्स: 0129-2272413

41. एसोसिएट वाइस प्रेसिडेंट, जीएमआर केईएल, भुवनेश्वर-751007। (फैक्स नंबर: 0674-2572794)

42. जीएम (एसओ एवं सीओएमएल), एनटीपीसी वीवीएनएल, नई दिल्ली-110033। फैक्स:011-24367021

43. श्री डी. पी. भागवा, मुख्य सलाहकार (ओ एंड एम), टेस्टा ऊर्जा लिमिटेड, नई दिल्ली-110 001 (फैक्स:011-46529744)।

44. श्री ब्रजेश कुमार पांडे, प्लांट हेड, जीतपीएल। (फैक्स:011-26139256-65)

45. निदेशक (एनपीसी), सीईए, एनआरपीसी बिल्डिंग, कटवारिया सराय, नई दिल्ली-110016

46. डीजीएम (ओएस), हल्दिया एनर्जी लिमिटेड, बारीक भवन, कोकाता-700072, फैक्स: 033-22360955

47. महाप्रबंधक (ओ एंड एम), बीआरबीसीएल, नबीनगर, बिहार-824003, फैक्स-06332- 233026

### <u>सीसी:</u>

मुख्य अभियंता, ओपीएम, सीईए	मुख्य अभियंता, एनपीसी, सीईए	सहायक सचिव,ईआरपीसी

### ईआरपीसी:: कोलकाता



# MINUTES

# OF

# **212<sup>TH</sup> OCC MEETING**

# Date: 22.02.2024 Eastern Regional Power Committee 14, Golf Club Road, Tollygunge Kolkata: 700033

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### EASTERN REGIONAL POWER COMMITTEE

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Member Secretary, ERPC chaired the 212<sup>th</sup> OCC meeting. On welcoming all the participants, he outlined the performance of ER grid during January 2024 and highlighted the following points:

- In January– 2024, energy consumption of ER was 13,548.7 MU which is 1 % less than January– 2023
- In January– 2024, Peak demand met of ER was 23,044 MW which is **4.3% more** than January– 2023.
- During January -2024, **75.8** % of the time, grid frequency was in IEGC band(49.90 Hz-50.05Hz)
- Thermal PLF of ER during January 2023 was 74 %.
- Generating stations whose PLF was more than 90% during January -2023:

Utility	Generating station	PLF(%)
WBPDCL	Bakreswar TPS	100
	Sagardighi TPS	100
NTPC	Darlipalli STPS	98
	Kahalgaon TPS	91
	Muzaffarpur TPS	98
DVC	Bokaro TPS `A`	92
IPP	MPL	98
	GMR	96

- Transmission line (132 kV & above) commissioned during January -2023:
  - 220 kV Rajarhat-Newtown All ckt-1 & ckt-2 (Length:11.25 ckt km , XLPE lead sheath cable) by WBSETCL.
- <u>Coal stock position:</u>
  - There is marked improvement in coal stock position Odisha(IB TPS) and some NTPC generating units though it is still in sub-optimal range in some generating units especially WBPDCL (Bakreswar TPS having only 17% stock) along with BRBCL (NTPC JV)(with 32% stock) and Mejia TPP(DVC)(with 44% stock) need to diligently focus on building their actual coal stock as per their normative requirement.

- WBPDCL was advised to stress on coal stock building through possibility of import for avoiding coal crisis during April(High demand period) and also to update status of imported coal(if any) till date.
- DVC was advised to sort out coal shortage issue at Mejia TPP thereby maintaining its coal stock at around 80% of normative requirement.
- Jharkhand (TVNL) was urged to enhance coal stock in face of impending demand surge and also advised to intimate constraints in building optimal coal stock despite having natural proximity to coalfields.

SL.	Name of States/Power Stns.	% of Actual Stock vis-à-vis Normative Stock
1.	Jharkhand (TVNL)	43%
2.	Odisha/IBTPS	73 %
3.	WBPDCL	32 % (Min. Bakreswar TPS-17%,
		Max. Santaldih TPS-45 %)
4.	DVC	77% (Min. Mejia TPP-44 %;
		Max Chandrapura TPS - 142%)
5.	NTPC	87% (Min BRBCLTPP –32%;
		Max. Farakka STPS -154%)

• Coal stock position (As on 19.02.2024) is detailed as follows:

- In this regard he highlighted that this is the most suited time to build coal stock keeping in view impending high demand season (Summer 2024) and thus advised all concerned GENCOs to strive for building optimum coal stock on sorting out various operational, commercial and administrative issues pertinent to coal linkage of respective generating units.
- He also expressed serious concern on availability of power during upcoming high demand season amid considerable loss of Hydro generation in ER with damage to Teesta-III, Teesta-V, Dikchu HEP in flashflood along with sub-optimal reservoir levels in important hydro reservoirs of ER rendering hydro support in peak demand hours as difficult proposition. The situation is exacerbated by high price of power per unit across all power exchanges.

GM, ERLDC at the outset emphasized frequent loadshedding experienced in Jharkhand and thereby underlined earliest possible commissioning of North Karanpura TPP in this context, with its major share allocation to Jharkhand.

- All beneficiaries were requested to manage demand portfolio keeping in mind lack of hydro support from Sikkim( subjected to natural disaster).
- He highlighted the need of meticulous planning to face upcoming Summer 2024 amid general elections and with a nationwide predicted peak demand of 260 GW.
- All generating units were requested to ensure optimum coal stock so that no power crisis is encountered in peak hours owing to dearth of coal, especially with restricted possibility of loadshedding amid upcoming general elections 2024.

### 1. PART-A: CONFIRMATION OF MINUTES

## 1.1. Confirmation of Minutes of 211th OCC Meeting held on 24<sup>th</sup> January 2024 virtually through Microsoft Teams online meeting platform

The minutes of 211<sup>th</sup> Operation Coordination Sub-Committee meeting held on 24.01.2024 was circulated vide letter dated 07.02.2024.

Members may confirm the minutes of 211<sup>th</sup> OCC meeting.

### **Deliberation in meeting**

Members confirmed the minutes of 211th OCC meeting.

### 2. PART-B: ITEMS FOR DISCUSSION

### 2.1 Decision taken during 22<sup>nd</sup> meeting of monitoring committee regarding the sanction of the new PSDF projects including the projects under examination: NLDC

This is to inform that during the 22<sup>nd</sup> meeting of the monitoring committee, a decision has been taken to withhold the sanction of new projects including the projects under examination for the period of one year, except the critical projects i.e SCADA for NER,Security operation Centre(SOC) for SLDCs, Islanding schemes and REMC projects.

The decision has been taken considering the fund availability in the PSDF account and the existing liabilities on account of ongoing projects. The decision shall be reviewed after a period of one year.

As per the decision taken by the Monitoring committee, all the projects that are under examination (barring the critical projects mentioned above) are considered as **deemed returned**.

Letter from NLDC on subject matter attached at **Annexure-B.2.1.1** and List of such projects of ER attached at **Annexure-B.2.1.2** 

Also, new projects barring the above exceptions, shall not be accepted for funding through PSDF until the aforementioned decision remains in effect. This is for information of all concerned.

Members may discuss.

### **Deliberation in meeting**

ERPC representative briefly spelled out the communication from NLDC(nodal agency for PSDF) regarding non-availability of funds in PSDF as on date rendering all projects of ER utilities(list attached at **Annexure B.2.1**) seeking PSDF grant as deemed returned barring few critical projects.

### OCC decision:

• OCC acknowledged the communication from NLDC and advised all ER constituents to explore alternate options to execute their respective projects.

• OCC also advised DISCOMs to avail funding from Government of India's RDSS scheme to carry out necessary revamping of distribution infrastructure without posing significant financial implications.

## **2.2** Status update on restoration of 1200 MW Teesta III Hydro-electric Project(SUL), Teesta –V HEP(NHPC) and Dikchu HEP: ERPC secretariat

1200 MW Teesta III Hydro-electric Project, on the intervening night of 03.10.2023 and morning of 04.10.2023, had encountered a natural disaster in upstream catchment area of the dam. It was reported that a cloudburst in upstream of dam region has led to sudden increase in discharge of Teesta river.

This had also subsequently resulted in considerable damage to Teesta –V HEP(NHPC) and Dikchu HEP located in downstream.

Present status of revamping works at Teesta –III HEP, Teesta-V HEP(NHPC) and Dikchu HEP along with tentative timeline for revival of service may please be intimated.

SUL, NHPC and Dikchu HEP may update. Members may discuss.

### **Deliberation in meeting**

SUL representative apprised of ongoing restoration works in powerhouse of damaged Teesta-III project, which is expected to be completed by September 2025. It was further informed:

- Assessment of damage caused, which is under progress, shall be completed by the end of February 2024.
- Silt removal works completed around generating transformer and station transformers.
- DPR preparation for reconstruction of the washed away dam is under progress, which shall be submitted to Central Water Commission(CWC) and Central Electricity Authority (CEA) by the end of 2024 for approval.
- Generation is expected to revive by middle of 2028.

NHPC representative apprised:

- Restoration of Teesta-V project is planned through five packages, out of which two packages i.e civil and hydro-mechanical jobs have already been awarded and work execution has commenced at the site.
- Silt removal, boulder removal and other associated cleaning works in different parts of the plant are in progress.
- Generation is expected to revive by 31.03.2025 after restoration of all units.
- Two towers among three collapsed transmission towers have already been restored by Powergrid while foundation works of dead end tower is under progress.
- Tower restoration at Teesta-V end shall be completed by November 2024.

It was also updated that Teesta-VI plant, which is presently under construction, is expected to be commissioned by 27.12.2024.

Dikchu representative apprised:

- Major cleaning works, i.e dewatering and silt removal from major components has been completed by December 2023.
- One of the turbine-generator sets has been dismantled and the other generator is under restoration by cleaning and heating processes.
- Some auxiliary components in plant need replacement owing to damage caused by silt deposition along with prolonged submergence in water.
- Generation is expected to restart from September 2024 after synchronization of both the units.
- No considerable damage caused to associated transmission system except submergence of the GIS, which is presently under restoration.

### OCC decision:

- OCC advised Teesta-III (SUL), Teesta –V(NHPC) and Dikchu HEP to regularly update ERPC regarding status and progress in restoration works at respective plants.
- OCC also emphasized significance of restoration of associated transmission systems of respective hydro-projects in tandem with revamping of generating units.

### 2.3 Shifting of Agriculture Loads from Non-Solar hours to Solar hours: ERPC secretariat

This is in reference to MoP letter no. 22/41/2023-OM (269407) dated 01.02.2024 (copy enclosed as **Annexure B.2.3**) regarding subject stated above requesting all the states to shift their agriculture load from non-solar to solar hours in light of upcoming high demand season.

The Government of India's Ministry of Power has issued a directive to shift agricultural power load to solar hours, citing the need to address global warming and take advantage of the 180 GW of renewable energy capacity available, which is expected to grow to 500 GW by 2030. This shift is motivated by the abundant solar power during daylight hours, which is cheaper than thermal or hydroelectric power and will help conserve water resources. The ministry has requested the implementation of this shift by the end of March 2024 and has suggested using funds to separate agricultural feeders for better transmission and distribution, while reducing the financial burden on state governments.

Further, as it is proposed to shift to Time of Day (TOD) tariff, under which tariff during solar hours will be less, it may be also analysed as to what other load can be shifted to solar hours.

Members may discuss.

### **Deliberation in meeting**

West Bengal SLDC representative informed there is no dedicated feeder as on date to cater only agricultural loads in West Bengal. It was requested to take up this matter with respective DISCOM, i.e WBSEDCL.

ERPC representative put up a concise presentation outlining the modalities of availing Revamped Distribution Sector scheme(RDSS) for separating agriculture feeders without imposing additional financial burden on respective DISCOMs.Several other benefits of RDSS scheme were also highlighted, i.e aiding DISCOMs in AT&C loss reduction, infrastructure upgradation for enhancing consumer experience and achieving financial sustainability through proportionate revenue realization.

### OCC decision:

- OCC urged all concerned DISCOMs of ER to carry out public awareness campaign for facilitating shift of agricultural load from non-solar to solar hours and thereby relieving demand during peak non-solar hours.
- OCC also advised DISCOMs to explore option of leveraging RDSS scheme to aid in earmarking dedicated feeders supplying agricultural load.

# 2.4 Installation of 315 MVA transformer bank at 400 kV New Chanditala S/S and replacement of 4th ICT at 400 kV Jeerat S/S by 315 MVA spare ICT from Malda (PG) S/s on loan basis: West Bengal SLDC (WBSETCL)

(i) In view of last year's unprecedented load growth in the state of WB, and the apprehended delay to come the 4th ICT at New Chanditala 400 kV sub-station, WBSETCL taken initiative to form a transformer bank of capacity 315 MVA at New Chanditala 400 kV sub-stn from own stock of 3 numbers of single-phase transformers sacrificing the 80 MVAR Reactor Bay at 400 kV side. This is needed to avoid / minimise PLS during ensuing summer 2024 in districts like Howrah, Hooghly and in CESC areas fed from Howrah, Liluah etc. We are expected to bring the said ICT by 31st March, 2024. Already the matter is discussed and made through in 26th CMETS-ER meeting held on 27/12/23.

(ii) The 4th ICT at Jeerat 400 KV sub-stn is out since 2021, where the repairing and re-connection of the damaged ICT will not be possible by forthcoming summer due to some issues related to procurement procedure. Hence apprehending the extreme congestion in the network at around Nadia, North 24 Parganas and at the state capital, Kolkata (CESC command area), WBSETCL had taken up the matter with Power Grid and decided to take the 315 MVA spare ICT from Malda (PG) Sub-stn on loan basis to handle the situation till the damaged 4th ICT is repaired and ready for commissioning. As, this is to replace the damaged 4th ICT, hence no need of any consent of CMETS-ER meeting. However, real time FTC clearance will be needed from ERLDC.

Requirement of both these asset's synchronisation with the system was discussed and agreed in OCC forum. Now, as these two ICTs are expected to come next month or before hence, the forum is requested to assist in advance regarding the requirements of first-time charging clearance from ERLDC for both the cases as detailed above. Other than Chief Electrical Officer's clearance and SCADA integration, if any other pre-requisite is needed, then that may please be informed in advance. So that, after completion of the installations on war footing basis in view of forthcoming summer load and general election, there should not be any hindrances regarding FTC clearance.

West Bengal SLDC (WBSETCL) may update. Members may discuss.

### **Deliberation in meeting**

West Bengal SLDC representative at the outset lauded timely receipt of necessary cooperation from ERLDC in respect of First Time Charging clearances. But with entire procedure being carried out on urgent basis and also considering the commissioning status of Subhasgram(interim) 500 MVA ICT, he stressed the paramount importance of these two transformers i.e 315 MVA

transformer bank at 400 kV New Chanditala S/S and 4th ICT at 400 kV Jeerat S/S in face of forthcoming demand escalation. He thereby enquired of any other procedures apart from those mentioned in the agenda so that WBSETCL O&M is prepared accordingly and thus streamlining the process with avoidance of any possible real time delay in FTC.

ERLDC representative submitted :

- Apart from procedures delineated in the agenda, only protection related aspects need to be duly taken care of.
- As SCADA integration is time consuming affair, so WBSETCL was requested to apply in advance to evade inadvertent delays.

West Bengal SLDC representative affirmed existence of SCADA integration at 400 kV Jeerat S/S, it being a case of replacing already existing transformer. SCADA integration at 400 kV New Chanditala S/S via RTU connectivity at reactor bay was also assured to be expedited so that FTC clearance can be applied within one week.

Regarding replacement of 315 MVA ICT at 400 kV Jeerat S/S, WBSETCL representative apprised that radiators have already been installed on 21.02.2024 and the same is expected to be charged by March 2024 while 160 MVA transformer on downstream of 400 kV Jeerat S/S to be tentatively charged within next 7-10 days. Moreover, Three phase transformer bank at 400 kV New Chanditala S/S, which is presently undergoing testing, is likely to be charged by 27<sup>th</sup> March,2024.

### OCC decision:

OCC advised WBSETCL to carry out all pre-requisite formalities and apply for FTC clearance in advance to avoid any last minute rush in completion of mandatory procedures related to installation of 315 MVA transformer bank at 400 kV New Chanditala S/S and replacement of 4th ICT at 400 kV Jeerat S/S.

# 2.5 Delay in conductor upgradation to HTLS owing to pending clearance from South Eastern Railway– West Bengal SLDC (WBSETCL).

Severe bottleneck is faced for changing conductor from age old Zebra to HTLS at four numbers of railway crossings due to non-clearance from south eastern railway authority in terms of giving way leave estimate since last one year which will enable us to pay for the amount. Only after completion of this, we can apply for power blocks to south eastern railway and on receipt of their clearance we can pay for power block also.

This upgradation of conductor is extremely important to supply power to a part of Kolkata (CESC command area) including Nabanna building and to Howrah and Hooghly districts. In view of forthcoming summer and ensuing general election kind attention of the forum is drawn on this important issue to request the south eastern railway authority to resolve the issue within shortest possible time. As, after getting the licensee status, railway department also have come to some meetings under ERPC, so if a message is conveyed to railway authority from the OCC forum, it may have an impact to resolve the long pending issue.

West Bengal SLDC (WBSETCL) may explain. Members may discuss.

### **Deliberation in meeting**

West Bengal SLDC representative apprised:

All pre-requisite tasks have been completed and on receipt of way leave estimate from South eastern railways, WBSETCL can proceed for necessary payment and subsequent application for power blocks to carry out reconductoring work.

ERPC representative intimated that a formal communication via official letter dated 21.02.2024 has been made to South eastern railways with reference to this issue .

South eastern railway representative was not present in the meeting.

### OCC decision:

OCC advised ERPC to take up the matter directly with South eastern railways for seeking necessary assistance at earliest so as to facilitate the pending reconductoring work.

### 2.6 Update on installation of 3rd ICT at Rajarhat (PG)-West Bengal SLDC (WBSETCL)

Status and the headway achieved in respect of proposed 3rd ICT at Rajarhat (PG) may please be intimated as this status was not discussed in the Subhasgram ICT monitoring meeting held on 13.02.2024. The need of the 3rd ICT at Rajarhat (PG) was agreed by WBSETCL in 21st CMETS-ER meeting held on 28.07.2023, but till date the advancement since last 7 months in this regard is not known to us. Also, it is important to mention here that on 16.01.24 New Town II C sub-station was commissioned, which may further add up on the apprehended 900 MW load of Rajarhat (PG) in the coming summer.

Hence it is extremely important to monitor the status update of the proposed 3rd ICT at Rajarhat(PG).

West Bengal SLDC (WBSETCL) may explain & Members may discuss.

### **Deliberation in meeting**

West Bengal SLDC representative, based on present loading pattern in and around Rajarhat(PG), raised deep concern on facing power crisis at Rajarhat(PG) in 2025-2026 similar to present scenario at Subhasgram(PG). He urged to lay equal emphasis on installation of 3rd ICT at Rajarhat (PG) as that of Subhasgram(PG) to thwart recurrence of similar emergent situation in future. Thus importance of regular monitoring of 3<sup>rd</sup> ICT commissioning at Rajarhat (PG) was underscored.

Powergrid ER-II representative apprised the following:

- Tender for procurement of new ICT at Rajarhat(PG) had been floated and presently in technical evaluation stage, price bid is awaited to be opened.
- LOA shall be tentatively placed by end of March 2024.
- Delay in planning for new ICT requirement was highlighted which in turn is leading to unwanted delays at later stage, since ICT procurement, especially for GIS like Rajarhat(PG) is undoubtedly a time consuming affair.
- Standard timeline for new ICT commissioning is 18 months as per CEA guidelines.

### OCC decision:

- OCC advised Powergrid ER-II to closely coordinate with Powergrid Corporate centre so as to expedite tendering process keeping urgent requirement of the ICT at Rajarhat (PG) in consideration.
- OCC advised Powergrid ER-II to adhere to standard timeline of 18 months(as per CEA guidelines) for 3<sup>rd</sup> ICT commissioning at Rajarhat (PG).

## **2.7** Shutdown proposal of generating units for the month of March'2024-ERPC Secretariat

Maintenance Schedule of Thermal Generating Units of ER during 2024-24 in the month of March '2024							
System	Station	Unit No.	Capacity (MW)	Period (as per LGBR 2024-24)		No. of Days	Reason
				From	То		
DVC	Bokaro- A TPS	1	500	15.02.2024	20.03.2024	35	COH- Blr, Turb, Gen
			Shutdown I	not availed as	s per 211th O	CC	
WBPDCL	Kolaghat TPS	5	210	21.03.2024	30.03.2024	10	PG Test/ Boiler License Renewal
NTPC	KhSTPS	6	500	01.03.2024	30.03.2024	30	Boiler Maintenance
	Barauni	8	250	01.03.2024	30.03.2024	30	Boiler + Turb Bearings inspection + All Turbine Valves

Members may discuss.

### **Deliberation in meeting**

WBPDCL representative informed that ongoing overhauling works at Kolaghat TPS U#5 shall be completed by 29.02.2024.

NTPC representative apprised of not availing shutdown for Barauni TPS U#8 while appealed for considering shutdown of Kahalgaon U#6 in subsequent OCC meetings after high demand period of March to May 2024.

DVC representative appealed for availing planned shutdown of RTPS U#2 from 28.02.2024 for 28 days to carry out boiler overhauling along with pollution control equipment upgradation.

NHPC representative updated that planned maintenance of all units of Rangit HEP expected to be completed by end of March 2024.

### OCC decision:

- OCC granted consent to all above mentioned shutdown requests. The detailed shutdown schedule as approved by OCC is provided at **Annexure B.7**.
- OCC advised all concerned generating units of ER to meticulously execute maintenance and overhauling related works in ongoing low demand season so that no planned shutdown entails to be availed in upcoming high demand period i.e from April 2024 to May 2024 in line with MOP guidelines.

### 2.8 Reason for forced outage of Central Generating stations in ER: ERPC Secretariat

This is in reference to MoP letter no. 22/7/2024-OM [E271032] dated 08.02.2024 (copy enclosed as **Annexure B.2.8**) regarding subject stated above requesting to carry out the analysis of the reasons for forced outage of Central generating Stations.

It is requested to kindly send the list of Planned Maintenance, Forced Outages and other outages along with reason of outages and duration of outages for the last six (6) years.

Members may discuss.

### **Deliberation in meeting**

NTPC and NHPC representatives apprised that details of forced outages at their respective generating stations have already been submitted to CEA.

DVC representative submitted that reasons for forced outages at their generating units have been compiled and shall be submitted to CEA at the earliest.

### OCC decision:

OCC advised all Central sector generating stations to share details pertaining to reasons of forced outage also with ERPC besides submitting the same to CEA.

# 2.9 Status of upcoming Thermal Projects of Eastern Region (Scheduled for COD)-ERPC Secretariat

Enhancing thermal capacity is imperative due to escalating load demands. As we approach the summer season, ensuring preparedness is of utmost importance. Possessing adequate capacity during peak load periods is crucial for effective grid management. There are several forthcoming thermal projects within the region, with a few Thermal Power Plants (TPPs) awaiting their CODs such as North Karanpura, Barh, Patratu, and SJVN.

It is necessary for these thermal power plants to strategize for their timely completion and integration into the grid, ensuring the region's readiness for the upcoming demand surge.

Generators may update.

### **Deliberation in meeting**

NTPC representative apprised:

- Trial operation is set to commence at North Karanpura TPS on 26.02.2024. Trial operation got delayed inadvertently due to technical problems related to boiler.
- COD of the 2<sup>nd</sup> unit at North Karanpura is expected within current fiscal year, *i.e* by 31.03.2024.
- New 660 MW unit at Barh TPS is expected to be declared for commercial operation by March 2025.
- Patratu COD date is Q4 of FY 2024-25.

SJVN representative was not present in the meeting.

### OCC decision:

- OCC advised NTPC to strictly adhere to the submitted timelines for Trial operation as well as COD of respective generating units.
- OCC also requested SLDC Bihar to intimate regarding upcoming thermal power plant of SJVN.

## **2.10** Ensuring Optimal Reservoir Levels for Hydro Generating Stations in the Eastern Region-ERPC Secretariat

In anticipation of the summer season and the expected increase in load demand, it is crucial for the Eastern Region to be well-prepared, particularly in terms of hydroelectric power generation. So, the readiness of all hydro generating stations within the region to operate at their full potential during the high hydro season has to be ensured.

It is essential for the hydro generating stations to contribute effectively to meeting the region's energy demand, thereby maintaining stability and efficiency in the power grid during peak load periods.

Details of water levels at major Hydro reservoirs of Eastern region for preceding years (2021-22,2022-23) attached at **Annexure B.2.10**.

Generators may update.

### **Deliberation in meeting**

OHPC representative affirmed maintaining better reservoir levels compared to last year in all HEPs of Odisha except at Upper Indravati HEP, Mukhiguda which is having slightly low reservoir level(44.5 % compared to 58% last year) owing to scanty rainfall.

It was also informed that annual maintenance of all units of OHPC shall be completed by 31.03.2024. One unit at Indravati HEP and one unit at Chiplima HEP shall be under shutdown for capital maintenance in April 2024, rest all other hydro generating units shall be available to meet peak demand.

SLDC Ranchi representative assured better reservoir levels in Subarnarekha HEP compared to last year.

### OCC decision:

OCC advised all HEPs of ER to strive for maintaining optimum reservoir levels so as to play a crucial role in meeting forthcoming demand surge.

### 2.11 Progress of 400kV DTL from IBEUL to Sundergarh-ERPC Secretariat

As per the deliberation of the meeting dated 8th November'2023 convened by the CEA, chaired by Chairperson CEA, regarding LILO arrangement/Power evacuation of IBEUL, IBEUL shall complete the DTL latest by March 2024 and shall submit monthly progress reports to CEA, ERPC, ERLDC, OPTCL and CTUIL.

In 210<sup>th</sup> OCC Meeting, it was also affirmed that 40% of DTL for IBEUL plant is already completed and extra manpower has been deployed by IBEUL for its final completion by mid Februray'2024.

IBEUL may update.

### **Deliberation in meeting**

IBEUL representative informed:

- 62% of foundation works, 36% of new erection and 20% of stringing works after LILO portion have been completed in respect of the DTL.
- Three contractors are being deployed at a time to expedite progress in DTL works but ROW issues have delayed the progress.
- DTL is expected to completed by end of March 2024.
- IBEUL U#2 COD expected in next three months i,e by April 2024, after completion of DTL.

### OCC decision:

OCC advised IBEUL to take decisive action to expedite the project's completion as per the stipulated timeline and to submit monthly progress reports on updated status of DTL to CEA, ERPC, ERLDC, CTU and OPTCL.

#### 2.12 220 KV BTPS - Begusarai circuit tripping on 18:45 on 12/02/2024: NTPC ER-I

220 KV BTPS - Begusarai Ckt-2 tripped at 18:45 hrs on 12/02/2024 on Zone-1 earth fault protection due to snapping of Y phase jumper at Begusarai substation end. After tripping of Begusarai CKT-2, the line loading of BTPS- Begusarai Ckt-1 increased. Other four lines of 220KV did not share the load. The loading in Mokamma ckt-1,2 were maintaining (-) 10 MW each and in Hazipur Ckt-1,2 were 80 MW each. So BTPS Stage-2 generation was reduced to avoid further loading & tripping of Begusarai CKT-1. Begusarai CKT-1 loading increased on increasing of generation. SLDC Control room was informed for balancing the load in other 220KV Ckts but it could not be done. SLDC control room was also requested to revise the BTPS Stage-2 schedule for safe running of BTPS Stage-2 Units (2\* 250MW), but it could not be done.

SLDC Bihar may kindly review upgrading of circuits at sub station end balancing of load may also be looked into.

NTPC ER-I may update and SLDC Bihar may respond. Members may discuss.

### **Deliberation in meeting**

NTPC Barauni representative summarized the incident , pointing out the lack of balanced load sharing by adjoining 220 kV circuits i.e Mokamma ckt-1&2 and Hazipur ckt-1 &2 as the main reason behind tripping of 220 kV BTPS-Begusarai circuit.

SLDC Bihar representative attributed the failure in load balancing in 220 kV circuits surrounding Barauni TPS to non-availability of one 220 kV Barauni-Hazipur circuit at the time of incident. Another source for 220 kV Begusarai S/S, i.e Saharsa (PG) always draws power from Begusarai ,so opening link with Sahasra(PG) may lead to synchronisation failure of Bihar intra-state network. It was also updated that Barauni-Begusarai line has not been fully upgraded to HTLS.

ERLDC representative apprised:

- Not opening of 220 kV Biharsarif-Mokama line by SLDC Bihar was a right decision as it would have posed risk of islanding Barauni TPS which could not have survived independently.
- Some load could have been shifted to Hazipur to reduce loading of BTPS- Begusarai Ckt-1.
- Bus splitting may be explored at 220 kV Begusarai S/S thereby increasing load on 400 kV ICT at Sahasra(PG) and also shifting local load from Begusarai to Barauni may aid in mitigating such contingency in future. This will serve as a temporary solution though HTLS upgradation at Begusarai end will be the permanent wayout to tackle such high loading on 220 kV Barauni-Begusarai D/C line.

### OCC decision:

- OCC advised SLDC Bihar to explore implementing temporary solution as suggested by ERLDC after carrying out necessary load flow analysis in adjoining network of Barauni TPS.
- OCC also suggested SLDC Bihar to carry out necessary study factoring in N-1 contingency prior to granting shutdown of any line so that such contingency can be foreseen and accordingly Standard Operating Procedure(SOP) should be in place.

## 2.13 Request for replacing the L&T make meter at POWERGRID, Angul end for both GMR – Angul CKT-I & CKT-II: GMR

As it is known, GMR Odisha Unit#1 and Unit#2 are directly connected to POWERGRID network at Angul end through two no's of 400KV transmission lines. For billing purpose, Main meter having serial no NP-8780-A & Check meter having serial no NP-8786-A have been installed in GMR – POWERGRID, Angul CKT-I and similarly, Main meter having serial no NP-8785-A and Check meter having serial no NP-8781-A have been installed in GMR – POWERGRID, Angul CKT-II. But due to frequent time drifting in these energy meters, it creates the time difference for 15 minutes block energy meter and hence generates a difference in power calculation in real time basis, both at GMR end as well as at POWERGRID, Angul end. Also, it is not possible for L&T make energy meter to be synchronized with GPS time, because it allows only one minute time retardation or advance.

So, it is requested to ERLDC and POWERGRID, Odisha to replace the L&T make meters by any other make meters at POWERGRID, Angul end so that the frequent time drifting nature of L&T energy Meter can be avoided.

GMR may update. Members may discuss.

### **Deliberation in meeting**

GMR representative briefed on the inconvenience frequently encountered in real time power calculation owing to time drifted nature of L&T make meters.

Powergrid ER-II representative updated that presently 160 SECURE make meters are under trial operation and AMR integration is under progress.

Powergrid Odisha affirmed that with availability of meters at their end , 4 meters (including both main and check) can be replaced at Powergrid , Angul end on request of GMR.

#### OCC decision:

OCC advised GMR to share formal mail communication to ERLDC seeking L&T meter replacement and accordingly the meters shall be replaced by Powergrid Odisha at earliest.

### 2.14 Difference in ABT(SCADA) vs SEM meters-NTPC Darlipalli

Station ABT meter is 0.2S class (L&T make) same as SEM. ABT meters are auto time sync with GPS where as SEM meters are not synced with GPS. Manual correction is being done in SEM meters if any time drift is observed.

Due to time sync differences, differences in ABT vs SEM being observed which is causing DSM loss to the station. Last month station incurred DSM loss of 2.85 lacs.

The matter was already discussed in 211th OCC meeting held on 24.01.2024 wherein OCC had opined the mismatch in meter data may be owing due to different technical specifications of different OEM meters, thereby NTPC was advised to replace some of the ABT meters with Genus make meters on pilot basis to check whether the difference still exists or not.

NTPC Darlipalli may update. Members may discuss.

### **Deliberation in meeting**

NTPC Darlipalli representative submitted:

- Due to non-availability of Genus make meters at their end, solution suggested by OCC forum in 210<sup>th</sup> OCC meeting could not be tried out.
- ABT meter at station end is L&T make while Genus make SEM deployed in energy accounting have deviation in readings.
- Considerable and randomly varying difference in readings between main and check meters(both Genus make) for the last week was presented.
- Time drift between main and check meters is negligible, i.e only 2 seconds
- As per latest CERC DSM regulation, huge penalty is being encountered even for small difference of 1 MW.

ERLDC representative affirmed that this difference in these meter readings is not going to adversely impact energy accounting in respect of NTPC Darlipalli .

Powergrid representative highlighted the inherent errors in associated CT/CVT as plausible reason behind mismatch in reading apart from defects in metering instrument.

### OCC decision:

- OCC suggested NTPC Darlipalli to recheck accuracy of associated CT/CVT as well as other electrical parameters of the main and check meters(Genus make) to figure out the root cause for mismatch in reading. Highlighting the issue to concerned OEM of the meters was also suggested.
- OCC also advised ERLDC to share blockwise phasewise voltage data of the meters with NTPC Darlipalli, still if root cause cannot be figured out, the issue shall be escalated to Powergrid for necessary corrective action.

### 2.15 SEM meter replacement and DSM loss due to deviation in meter reading- NTPC TSTPS

It has been observed that after the replacement of SEM(Genus make) meters in TSTPS Bus Section 1&3 on 15th Dec 2023 and subsequently during the HVDC Bi-pole shutdown, the difference in ABT (SCADA-Nexus make) meter vs SEM meters has got increased. Due to this, TSTPS has incurred DSM loss of Rs.16.49 Lakh(17th Jan to 3rd Feb-2024).

Station ABT meter is 0.2S class(Nexus make) same as SEM (Genus make). The meter reading difference was less before replacement of new meters. However, it has got increased post replacement.

The meters are auto time sync with GPS whereas SEM meters are not synced with GPS. Manual correction is being done in SEM meters if any time drift is observed.

Considering the above, it is requested to:

- a. Allow TSTPS to use the old (L&T make) main meters as check meter to the new Genus make main meter to verify the correctness of reading.
- b. Access to the SEM meters may be provided for online monitoring of DSM and auto-time sync in real time.

NTPC TSTPS may update. Members may discuss.

### **Deliberation in meeting**

NTPC TSTPS representative submitted:

- Mismatch in meter reading has significantly increased after SEM meter replacement in Bus section 1&3 of TSTPS and after shutdown of Talcher-Kolar HVDC Bipole.
- Same CT core is in series and same CVT is connected with all 3 meters, i.e main, check and internal meters.
- Presently the error in meter readings is in the range of 2-3 MW as compared to 4-5 MW during shutdown of Talcher-Kolar HVDC Bipole.
- Similar issue has also been encountered at BRBCL(NTPC JV).
- Estimated loss incurred due to difference in SCADA meter(ABT) reading with Genus make meter at ERLDC end amounts to around Rs.16.5 lakh over a duration of 15 days.
- Proposed usage of old L&T meter as check meter while new Genus meter as Main meter for comparison of values.

### OCC decision:

- OCC opined that the deviation in meter readings is getting changed with change in load flow pattern and accordingly suggested NTPC TSTPS to carry out root cause analysis for the same.
- OCC advised NTPC TSTPS to replace all main and check meters with Genus make meters for reducing the mismatch in meter readings and subsequent DSM loss incurred to the minimum possible extent.

### 2.16 Revision of schedules from 18-12-2024 till implementation of software restriction by ERLDC: NTPC ER-I

In view of Suo-moto order by CERC dated 18.12.2023, (Petition No. 18 /SM/2023) clause 10, which states that

### Quote :

"Keeping in view the difficulties expressed by the Grid-India with respect to SCUC and generating stations, we are of the considered view that while the beneficiaries/buyers shall have full flexibility to decide on their requisition from a generating station up to 1430 hrs on 'D-1' day, (their right to revision of schedules in the said generating station for 'D' Day shall be subject to the condition that such revision of schedule for 'D' Day shall not be below their respective share of minimum turndown level in the respective generating station. This shall enable a realistic SCUC exercise and help ensure adequacy of reserves in the system, while at the same time enabling the beneficiaries/buyers to undertake advance planning and optimal portfolio management of their power purchases."

Further Grid India implemented the restriction arising from above order on 24-01-2024. Before that there are several instances of revision of schedules below technical minimum on D Day by beneficiaries.

In such cases, revision of schedules may kindly be implemented as per CERC suo moto order.

Details of such cases attached in Annexure B.2.16

NTPC ER-I and ERLDC may update. Members may discuss.

### **Deliberation in meeting**

NTPC representative requested the forum for retrospective revision in all schedules below technical minimum on D-Day by respective beneficiaries from 18.12.2023 till provision for restricting beneficiary requisition on D-day was incorporated in WBES portal by Grid-India.

- It was underscored by NTPC that as per CERC suo moto order dated 18.12.2023, beneficiaries have full flexibility in modifying requisition from generating station only upto 14:30 Hrs of D-1 day while on D-day schedule revision by beneficiaries is permissible only upto minimum turndown level of respective generating stations.
- Huge loss incurred by NTPC units due to non-compliance by beneficiaries after issuance of CERC suo-moto order dated 18.12.2023 was also highlighted.

WBSEDCL representative apprised that effective date of implementation was nowhere mentioned in the CERC suo-moto order dated 18.12.2023 and thus non-compliance in terms of requisition by beneficiaries cannot be established.

ERLDC representative put up the record of bilateral discussion between NTPC and Grid-India dated 12.01.2024 wherein it was explicitly stated that necessary changes in line with CERC suomoto order shall be incorporated in scheduling software by Grid-India in next 15 days.

It was further submitted:

- Such retrospective schedule revision for NTPC generating units shall result in post-facto schedule revision of many constituents across the country, thereby having pan India implications.
- Necessary modifications got implemented on WBES portal w.e.f 24.01.2024 as per the mutually agreed timeline between NTPC and Grid-india, i.e within 15 days of the bilateral meeting held on 12.01.2024.

OCC acknowledged the views submitted by WBSEDCL and ERLDC.

### **ADDITIONAL AGENDA**

# 2.17 Non-Receipt of signals for remote monitoring from 220 kV Bays at Muzaffarpur Substation- Powergrid ER-I

Remote monitoring and operation of all sub-stations in Eastern region-I is being ensured from RTAMC Patna. For smooth operation/monitoring, proper data reporting of switchgear status, analog values and alarms to control center is essential. However, there is issue in reporting of few critical signals at Muzaffarpur due to issues in bays/equipment owned by BSPTCL:

### a. 220kV bays 210 & 211(Amnour-2 & 1) at Muzaffarpur ::

The bays belong to BSPTCL and are being maintained by BSPTCL. Due to communication issue in few IEDs, the signals pertaining to the bays are reporting partially to RTAMC.

### b. Non-reporting of GIS bus duct signals of 220 kV BUS-1&2 ::

There are 03 bays at Muzaffarpur Sub-station on 220 kV side i.e 212-Goroul-2 & 213(Goroul-1)owned by BSPTCL and 214-(ICT-IV LV side) owned by POWERGRID.As per our signal monitoring policy for GIS,grouping of compartment wise signals is being done to optimize the number of signals reporting to local and remote SCADA. However, BSPTCL bay number 213 is under breakdown due to flashing in GIS module on 11th June 2022. BCU pertaining to Bay 213 has also become faulty. Further, BCU of Bay 212 goes into error mode frequently and thus needs to be replaced. Therefore, the grouped signals i.r.o 220 kV GIS BUS DUCT AT Muzaffarpur are not reporting to RTAMC for remote supervision.

Owing to the above, remote monitoring stands affected i.r.o Muzaffarpur Substation and we have to locally monitor for the same.

The matter has been persistent for long duration and thus needs to be deliberated in OCC forum for its time bound resolution.

In 209<sup>th</sup> OCC meeting, BSPTCL representative updated that communication glitch in IEDs pertaining to 220 kV bays 210 & 211 (Anmour-2& 1) at Muzaffarpur has been resolved while BCU pertaining to bay 212 and 213 shall be replaced within two months after ensuring availability of spares.

Powergrid ER-I may update. Members may discuss.

### **Deliberation in meeting**

Powergrid ER-I representative briefly explained the agenda and submitted that bay restoration works is halted at BSPTCL end as on date, causing significant inconvenience in remote supervision by RTAMC Patna.

SLDC Bihar representative was not present in the meeting.

#### OCC decision:

OCC opined to issue a formal communication from ERPC to BSPTCL, highlighting the matter and calling for its earliest resolution.

### 2.18 Decommissioning of 50 MVAR LR of Mejia-1 Line at Maithon SS.- POWERGRID ER-II

50 MVAR, 3-Ph Line Reactor of Mejia-I Line at Maithon SS, was commissioned in 1991 under Kahalgaon Project (KTPS). Originally the subject Reactor was commissioned as Bus Reactor however after various system strengthening activity, finally the Reactor converted to Switchable LR of Mejia-1 Line at Maithon SS.

Subject Reactor already elapsed 33 Years of age and many ageing related issues are cropping up like leakages many points which is frequent in nature.

Requirement of subject Reactor was placed in CMETS and further vide minutes of 8th CMETS-ER, against agenda point no- 6, it is deliberated for decommissioning.

At present condition, the Reactor may require further considerable efforts (Both financially & technically) for continue in service for a considerable life. Moreover, after taking S/D of the Reactor on 29.11.2023, it is further studied and revealed that ageing related issues are popped up considerably and may not be technically prudent to continue further.

In view of above, subject Reactor may be considered for further decommissioning as per laid out procedure. Detail retirement intimation shall be communicated duly.

For information please.

#### **Deliberation in meeting**

Powergrid ER-II representative apprised of decommissioning of 50 MVAR line reactor of Mejia-1 Line at Maithon SS and that the same has already been approved in 8<sup>th</sup> CMETS-ER meeting.

### OCC decision:

OCC noted and consented to the decision already taken in 8<sup>th</sup> CMETS-ER meeting.

## 2.19 Proposal for installation of SPS to prevent cascade tripping due to ICT tripping at Rajarhat(PG) : West Bengal SLDC (WBSETCL)

In view of the ensuing summer and Loksabha Election, all possible reviews of the system to find out the vulnerabilities and to safeguard the system against those efforts are ongoing. As a result of it, the apprehended peak loading of Rajarhat(PG) sub-station is found to be around 826 MW(April'24). With a peak load around 800 MW, if one ICT at Rajarhat(PG) sub-stn trips, a huge part of North 24 Parganas, Kolkata and South 24 parganas power supply may be interrupted suddenly for cascade tripping. To avoid this type of grid hazard with dark out for a massive area with conductor snapping even is extremely undesirable.

Hence, it is proposed to introduce a SPS (special protection scheme) which will make instant tripping of 220 KV Rajarhat-New Town AA3 D/C from Rajarhat(PG) end along with tripping of Subhasgram(PG) -New Town AA3 circuit and Subhasgram(PG) - KLC circuit at Subhasgram(PG) end using OPGW connectivity between Rajarhat and Subhasgram(PG) Substations. This will ensure non propagating the impact of one transformer tripping at Rajarhat(PG) substation up to Subhasgram(PG) end and will save the system of Subhasgram (PG), Kasba (WBSETCL) point (synchronising point for CESC) etc. Also the 220 kV Subhasgram(PG) -New Town AA3 circuit and Subhasgram(PG) - KLC circuit will be saved from any possibility of conductor snapping. Power Grid may please be requested to explore the implementation of the said SPS before forthcoming election.

West Bengal SLDC (WBSETCL) may explain & Members may discuss.

### **Deliberation in meeting**

West Bengal SLDC representative submitted:

- As per study carried out by WB SLDC, loading at Rajarhat(PG) shall hover around 826 MW in upcoming April'2024 which is further expected to rise in June'2024.Existence of two 500 MVA ICTs at Subhasgram(PG) has been considered in this study.
- Considering this high loading pattern, tripping of one ICT at Rajarhat(PG) may cause cascaded tripping of connected lines and in due course of time with propagation of disturbance from Rajarhat(PG), Subhasgram(PG) may be plunged into complete darkness rendering severe power crisis in Kolkata and adjoining districts.
- A concise presentation outlining network connectivity of Rajarhat(PG) to important adjacent nodes, was delivered. Absence of 400 kV source in case of ICT tripping at Rajarhat(PG) was pointed out that shall lead power to flow from Subhasgram PG towards Rajarhat(PG) via direct connectivity to New town AAIII bus as well as via KLC(Bantala) S/S, eventually leading to conductor snapping. Also in absence of link between local 400 kV and 220 kV networks, Kasba(WB) shall also be fed from Subhasgram (PG) via Subhasgram (WB). This sudden load imposed on Subhasgram (PG) may result in complete darkness of vast areas of Kolkata (New Town and Saltlake) along with South 24 Parganas district.
- Thus SPS scheme is proposed to ensure confinement of such grid disturbance locally to North 24 parganas rather than propagating to south 24 parganas and most importantly to Kasba(WB) S/S.

• In case of such contingency at Rajarhat(PG), proposed SPS shall instantly trip four circuits:

Two circuits from Rajarhat(PG) end i.e New Town AAIII circuits-1 &2 and two circuits from Subhasgram (PG) end i.e Subhasgram (PG)- New Town AAIII along with Subhasgram (PG)-KLC circuit.

- Existing OPGW connectivity between Rajarhat(PG) and Subhasgram (PG) can be leveraged for timely communication of trip signals.
- Kasba(WB) S/S shall be safeguarded by WBSETCL commissioned SPS in event of such contingency.
- The propsed SPS, thus, shall aid in minimizing area of damage in event of contingency at Rajarhat(PG).

### OCC decision:

- OCC advised ERLDC to carry out further comprehensive study assessing requirement of proposed SPS by WB SLDC taking other essential eastern regional grid parameters into consideration.
- OCC advised West Bengal SLDC to share the necessary details to carry out the study of SPS with ERLDC at earliest.
- OCC opined to convene a special meeting physically at ERPC Secretariat, Kolkata in upcoming week to finalize the requirement and modalities of proposed SPS.

### 3. PART-C: ITEMS FOR UPDATE/FOLLOW-UP

### 3.1. ER Grid performance during January 2024.

The average and maximum consumption of Eastern Region and Max/Min Demand (MW), Energy Export for the month January -2024 were as follows:

AVERAGE CONSUMPTION (MU)	MAXIMUM CONSUMPTION(MU)/ DATE	MAXIMUM DEMAND (MW)	MINIMUM DEMAND (MW)	SCHEDULE EXPORT (MU)	ACTUAL EXPORT
438 MU	462.3 MU 30.01.2024	23044 MW, 27.01.2024 at 18:20 Hrs.	13890 MW, 02.01.2024 at 03:28 Hrs.	4452	4608

ERLDC/ERPC may highlight the performance of the ER grid.

### **Deliberation in meeting**

The grid performance of ER for the month of January -2024 was highlighted.

### 3.2. Ensuring the healthiness of ADMS

State	Criteria for ADMS operation	Number of instances for which ADMS criteria satisfied	Number of instances for which detail received	Discussion regarding previous month performance	Update in 211 <sup>th</sup> OCC meeting
West Bengal	1. System Frequency < 49.7 Hz 2. WB over-drawl > 150 MW 3. Delay = 4 min	0	-	-	-
Jharkhand	<ol> <li>System Frequency</li> <li>49.9 Hz</li> <li>Jharkahnd over- drawl &gt; 25 MW</li> <li>Delay = 3 min</li> </ol>	182	Nil	-	-
DVC	<ol> <li>System Frequency</li> <li>49.9 Hz</li> <li>DVC over-drawl &gt;</li> <li>150 MW</li> <li>Delay = 3 min</li> </ol>	14	Nil	-	-

Odisha	1. System Frequency	0	-	-	-
	< 49.9 Hz				
	2. Odisha over-drawl				
	> 150 MW				
	3. Delay = 3 min				

Members may note.

#### **Deliberation in meeting**

Members noted.

#### 3.3. Commissioning status of ADMS

Automatic demand management scheme (ADMS) has been already commissioned in West Bengal, DVC, Odisha and Jharkhand. However, for Bihar it is yet to be implemented, the last status as confirmed in the earlier meeting is as follows.

SI No	State/Utility	Logic for ADMS operation	Target Date
1	Bihar	F <49.7 AND deviation > 12 % or 150 MW	

Bihar may update the status of the implementation of ADMS scheme.

Members may note.

### **Deliberation in meeting**

Members noted.

### 3.4. Primary frequency response of generating units in ER

The availability of sufficient primary frequency response is one of the fundamental requirements of power system operation not only from reliability point of view but also from regulatory compliance point of view. Based on the assessed FRC re-testing of primary frequency response can be recommended. Therefore, the accurate and high-resolution data from generator end is extremely important in absence of which assessment of FRC is done as per low resolution ERLDC SCADA data. The plant wise data submission statistic for frequency event flagged by ERLDC upto 30.11.2023 is given below:

STATIONS	17.12.2023	05.01.2024	15.01.2024	15.01.2024
	13:01	05:16	13:59	14:06
ADHUNIK	Received	Received	Received	Received

BARH	Pending	Pending	Pending	Pending
BRBCL	Pending	Pending	Pending	Pending
DARLIPALLI	Received	Received	Received	Received
DIKCHU	Plant out	Plant out	Plant out	Plant out
FARAKKA	Pending	Pending	Pending	Pending
GMR	Received	Received	Received	Received
JITPL	Received	Received	Received	Pending
KAHALGAON	Received	Received	Received	Received
MPL	Received	Received	Received	Received
NPGC	Received	Received	Received	Received
TALCHER	Received	Pending	Pending	Pending
TEESTA III	Plant out	Plant out	Plant out	Plant out
TEESTA V	Plant out	Plant out	Plant out	Plant out
North Karanpura	Pending	Pending	Pending	Pending

In view of the same all utilities are once again requested to kindly look into the matter and take necessary action to ensure consistent.

Data submission for every frequency event flagged by ERLDC.

=Data not received

Members may note.

### **Deliberation in meeting**

Members noted.

### 4. PART-D: OPERATIONAL PLANNING

### 4.1. Anticipated power supply position during March 2024

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of March 2024 were prepared by ERPC Secretariat (**Annexure D.1**) on the basis of LGBR for 2023-24 and feedback of constituents, keeping in view that the units are available for generation and expected load growth etc.

Members may update.

### **Deliberation in meeting**

The updated anticipated power supply position for March 2024 is provided at Annexure D.1

## 4.2. Major Thermal Generating Units/Transmission Element outages/shutdown in ER Grid (as on 14-02-2024)

SL No	STATION	STATE	AGENCY	UNIT NO	CAPACITY (MW)	REASON(S)	OUTAGE DATE
1	BARAUNI TPS	BIHAR	NTPC	7	110	Poor condenser vacuum	19-Jul- 2023
2	BARAUNI TPS	BIHAR	NTPC	6	110	Low vacuum	22-Jul- 2023
3	BARH	BIHAR	NTPC	1	660	Initially the unit was out due to Boiler Tube Leakage, from 00:00 Hrs of 24/11/2023 the unit was taken under annual overhauling. Unit was out for capital overhauling till 05/01/2024. Unit is out for rotor replacement work w.e.f. 06/01/2024	19-Nov- 2023
4	JITPL	ODISHA	JITPL	1	600	IP control valve close	08-Feb- 2024
5	NORTH KARANPURA	BIHAR	NTPC	1	660	Boiler Tube Leakage	11-Feb- 2024

### a) <u>Thermal Generating Stations outage report:</u>

6	IB.TPS	ODISHA	OPGC	2	210	Boiler Tube Leakage	12-Feb- 2024
7	HEL HIRANMAYEE	WEST BENGAL	HEL	1	150	due to a problem in the ID Fan VFD thyristor	11-Feb- 2024
8	DPL	WEST BENGAL	WBPDCL	7	300	Previously out due to Flash in excitation system. Then taken for annual overhauling since 00:00 hrs of 13.12.2023.	12-Dec- 2023
9	TSTPP	ODISHA	NTPC	1	500	Annual Overhauling	04-Jan- 2024
10	DSTPS	DVC	DVC	2	500	Unit overhauling	13-Jan- 2024
11	FSTPP	WEST BENGAL	NTPC	6	500	Overhauling Purpose	15-Jan- 2024
12	SANTALDIH TPS	WEST BENGAL	WBPDCL	5	250	Unit Overhauling	26-Jan- 2024
13	KOLAGHAT	WEST BENGAL	WBPDCL	3	210	Capital Overhauling	06-Feb- 2024
14	Sterlite	ODISHA	SEL	3	600	AOH and R&M activity	13-Feb- 2024

All Generating stations are requested to update expected restoration time and reason outage to ERLDC/ERPC on weekly basis in case of any change at their end.

### **Deliberation in meeting**

Members noted.

### b) <u>Major Generating stations Out on Reserve Shutdown due to low system demand:</u>

SL No	STATION	STATE	AGENCY	UNIT NO	CAPACITY (MW)	REASON(S)	OUTAGE DATE
1	SOUTHERN	WEST BENGAL	CESC	1	67.5	Low System Demand	09-Feb- 2024
2	SOUTHERN	WEST BENGAL	CESC	2	67.5	Low System Demand	09-Feb- 2024

### **Deliberation in meeting**

Members noted.

### c) <u>Hydro Unit Outage Report:</u>

S. NO	STATION	STATE	AGENCY	UNIT NO	CAPACITY (MW)	REASON(S)	OUTAGE DATE
1	TEESTA STG III Hep	SIKKIM	TUL	1	200		
2	TEESTA STG III Hep	SIKKIM	TUL	2	200	Sudden cloudburst at	
3	TEESTA STG III Hep	SIKKIM	TUL	3	200	glacier fed LOHNAK Lake followed by huge	04-Oct- 2023
4	TEESTA STG III Hep	SIKKIM	TUL	4	200	inrush of water in Teesta River and damage of Teesta III	
5	TEESTA STG III Hep	SIKKIM	TUL	5	200	Dam & downstream Powerhouses	
6	TEESTA STG III Hep	SIKKIM	TUL	6	200		
7	DIKCHU Hep	SIKKIM	SKPPL	1	48	Sudden cloudburst at glacier fed LOHNAK	
8	DIKCHU Hep	SIKKIM	SKPPL	2	48	Lake followed by huge inrush of water in Teesta River and damage of Teesta III	04-Oct- 2023

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						Dam & downstream	
						Powerhouses	
9	TEESTA HPS	SIKKIM	NHPC	1	170	Sudden cloudburst at glacier fed LOHNAK	
10	TEESTA HPS	SIKKIM	NHPC	2	170	Lake followed by huge inrush of water in	04-Oct-
11	TEESTA HPS	SIKKIM	NHPC	3	170	Teesta River and damage of Teesta III Dam & downstream Powerhouses	2023
12	BALIMELA HPS	ODISHA	ОНРС	3	60	The unit taken out under R&M since 08/07/2022 for 18 months.	08-Jul- 2022
13	INDRAVATI	ODISHA	ОНРС	2	150	Capital Maintenance	23-Nov- 2023
14	CHIPLIMA HPS / HIRAKUD II	ODISHA	ОНРС	1	24	Capital Overhauling	15-Dec- 2023
15	RANGIT HPS	SIKKIM	NHPC	1	20	Capital maintenance	02-Jan- 2024
16	RANGIT HPS	SIKKIM	NHPC	3	20	Special annual maintenance	02-Jan- 2024
17	JORETHANG	SIKKIM	DANS	1	48	Barrage Civil Work	08-Jan- 2024
18	JORETHANG	SIKKIM	DANS	2	48	Barrage Civil Work	16-Jan- 2024
19	CHUZACHEN	SIKKIM	GATI	1	55	Annual Overhauling	31-Jan- 2024
20	CHUZACHEN	SIKKIM	GATI	2	55	Annual Overhauling	11-Feb- 2024
21	U.KOLAB	ODISHA	ОНРС	1	80	Annual maintenance	01-Feb- 2024
22	BALIMELA HPS	ODISHA	OHPC	1	60	Annual maintenance	08-Feb- 2024
23	RENGALI HPS	ODISHA	ОНРС	3	50	Annual maintenance	07-Feb- 2024

### Deliberation in meeting

Members noted.

### d) Long outage report of transmission lines (As on 14.02.2024):

Transmission Element / ICT	Outage From	Reasons for Outage
220/132KV 100 MVA ICT II AT LALMATIA	22.01.201 9	Commissioning work of 220/132KV, 100MVA Transformer and its associated control Panel under progress.
220 KV PANDIABILI - SAMANGARA D/C	03.05.201 9	Tower Collapsed during Cyclone FANI (Restoration project is entrusted upon PGCIL & 220kV Samangara-Pandiabili ckt-I&II are anti-theft charged from Pandiabili end from loc no.01 to loc no.74)
220/132KV 100 MVA ICT 3 AT CHANDIL	30.04.202 0	Due to Fire hazard ICT damaged and burnt.
400/220KV 315 MVA ICT 4 AT JEERAT	09.04.202 1	Due to Fire hazard ICT damaged and burnt. It was decided that 315MVA, 400/220KV spare ICT from Regional Pool at Malda to be replaced in place of defective 315 MVA ICT (4th) at Jeerat 400 KV S/S(WB). Work under progress.
220KV-FSTPP-LALMATIA-I	21.04.202 1	Conductor stringing 12.965 km has been completed and Stringing between Tower Loc. no. 152 to 159 is under progress. Transmission line is idle charged between Lalmatia GSS end to Tower Loc.no.169
220KV-MUZAFFARPUR(PG)- GORAUL(BH)-1	11.06.202 2	Main Bay is under breakdown due to flashing in GIS module
220KV-WARIA-BIDHANNAGAR-1 & 2	08.06.202 2	To control overloading of 220 kV Waria-DSTPS (Andal) D/C line
400/220KV 315 MVA ICT 2 AT PATRATU	27.09.202 2	ICT tripped on few occasions due to Buchholz later DGA violation found, internal fault in transformer to be rectified. (DGA violation)
132KV-BARHI-RAJGIR-1	25.03.202 3	Dismantling of tower no. 227, 228, and 229 crossing the premises of Mahabodhi Cultural centre along with
132KV-NALANDA-BARHI(DVC)-1	25.03.202 3	Destringing of conductor of both circuits and Earthwire between tension tower no. 218-237 in same line.

220KV-TSTPP-MEERAMUNDALI-2	10.06.202 3	Tower collapse at loc no 41, 42 (from Meramundali end). Ckt1 charged through ERS.
400KV-RANGPO-TEESTA-V-1 & 2	04.10.202 3	Tower near gantry of Teesta V powerhouse collapsed due to sudden cloudburst at glacier fed LOHNAK Lake followed by huge inrush of water in TEESTA river and damage of Teesta III Dam & downstream Powerhouses
400KV-TEESTA-III-RANGPO-1	04.10.202 3	Hand tripped from Teesta-III end due to sudden cloudburst at glacier fed
400KV-TEESTA-III-DIKCHU-1	04.10.202 3	of water in TEESTA river and damage of Teesta III Dam & downstream Powerhouses
400KV-RANGPO-DIKCHU-1	04.10.202 3	Hand tripped from Rangpo end due to sudden cloudburst at glacier fed LOHNAK Lake followed by huge inrush of water in TEESTA river and damage of Teesta III Dam & downstream Powerhouses
400KV JHARSUGUDA- ROURKELA-1 &3	26.10.202 3	Reconductoring work
400KV-BINAGURI-BONGAIGAON-2	27.10.202 3	Reconductoring work
220KV/132KV 160 MVA ICT 2 AT MALDA	30.11.202 3	For shifting of the ICT- 2 from 132KV AIS to GIS
400KV-INDRAVATI(PG)- INDRAVATI(GR)	28-12- 2023	Isolator problem at GRIDCO end
400KV-BINAGURI-BONGAIGAON-1	29.01.202 4	Reconductoring work of 400 KV Bongaigaon Binaguri-1
400KV-BINAGURI-TALA-2	31.01.202 4	Annual maintenance at Tala end
220KV-JODA-RAMCHANDRAPUR- 1	12.01.202 4	Tower collapsed at locations no 335, 336 & 337 due to heavy theft of tower leg bracing members.
400KV-ALIPURDUAR (PG)- PUNASANGCHUN-JIGMELING-1,2	01.02.202 4	Rectification of SCADA issues at Jigmeling
400KV-BIHARSARIFF(PG)- BANKA(PG)-1 & 2	02.02.202 4	Diversion Work due to 4 lane work of Rajauli -Bakhtiyarpur NH
400KV-DHANBAD-RANCHI-1 & 2	05.02.202 4	DIVERSION WORK DUE TO NH WORK OF RANCHI BYPASS BY NHAI

Transmission licensees/ Utilities are requested to update expected restoration date & work progress regarding restoration regularly to ERLDC/ERPC on monthly basis by 5<sup>th</sup> of each

month so that status of restoration can be reviewed in OCC. Utilities are also requested to update outage of any elements within their substation premises like isolator/breaker to ERLDC/ERPC regularly. (Reported as per Clause 5.2(e) of IEGC)

### **Deliberation in meeting**

Members noted.

4.3. Commissioning of new units and transmission elements in Eastern Grid in the month of January -2024.

The details of new units/transmission elements commissioned in the month of January-2024 based on the inputs received from beneficiaries:

	NEW ELEMENTS COMMISSIONED DURING JANUARY, 2024							
			GENER	ATING UNIT	S			
SL. NO.	Location	Owner/ Unit name	Unit No / Source	Capacity added (MW)	Total/Instal led Capacity (MW)	DATE	Remarks	
1	Jharsuguda, Odisha	IBEUL - UNIT 1	1/ IBEUL	350	700/350	13-01- 2024		
			ICTs	/ GTs / STs				
SL. NO.	Agency/ Owner	SUB- STATIO N	ICT NO	Voltage Level (kV)	CAPACITY (MVA)	DATE	Remarks	
1	JSW Ltd	IBEUL SS	GT-1	400/20	438	13-01- 2024		
2	JSW Ltd	IBEUL SS	ST-1	400/6.6	60	12-01- 2024		
			TRANS	<b>AISSION LIN</b>	ES			
SL. NO.	Agency/ Owner	Line Name	e	Length (KM)	Conductor Type	DATE	Remarks	
1	WBSETCL	220 kv Newtown /	Rajarhat- All ckt-1	11.25	1 CORE 12OO SQ. MM. CU, XLPE LEAD SHEATH CABLE	16-01- 2024	Previously FTC issued for Antitheft condition and this time FTC issued for	
2	WBSETCL	220 kv Newtown /	Rajarhat- All ckt-2	11.25	1 CORE 1200 SQ. MM. CU,	16-01- 2024	full load condition	

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				XLPE LEAD				
				CABLE				
	LILO/RE-ARRANGEMENT OF TRANSMISSION LINES							
SL. NO.	Agency/ Owner	Line Name/LILO at	Length (KM)	Conductor Type	DATE	Remarks		
1	IBEUL up to LILO point at 11 KM, OGTPL(Indigrid) from LILO point to OPGC End and Sundargarh End	400KV-IBEUL- OPGC-1	OPGC to LILO Point(7.27 4)+ LILO Point to IBEUL(11. 088)	OPGC to LILO Point(Triple bundle Snowbird conductor)+ LILO Point to IBEUL(ACS R twin Moose Conductor)	10-01- 2024	LILO of OPGC- jharsuguda -2 at IBEUL(Ind- Barath)		
2	IBEUL up to LILO point at 11 KM,OGTPL(Indi grid) from LILO point to OPGC End and Sundargarh End	400KV-IBEUL- JHARSUGUDA-1	SUNDAR GARH to LILO Point(44.0 75)+ LILO Point to IBEUL(11. 088)	SUNDERG ARH to LILO Point(Triple bundle Snowbird conductor)+ LILO Point to IBEUL(ACS R twin Moose Conductor)	09-01- 2024	LILO of OPGC- jharsuguda -2 at IBEUL(Ind- Barath)		
	L	BUS/LIN	NE REACTO	RS		1		
SL. NO.	Agency/ Owner	Element Name	SUB- STATION	Voltage Level (kV)	DATE	Remarks		
1	WBSETCL	125MVAR 400KV B/R-2 AT KHARAGPUR	KHARAG PUR	400	25-01- 2024			
	I		BUS	I	I			
SL. NO.	Agency/ Owner	Element Name	SUB- STATION	Voltage Level (kV)	DATE	Remarks		
1	JSW Ltd	400KV MAIN BUS - 1 AT IBEUL	IBEUL	400	09-01- 2024			

2	JSW Ltd	400KV MAIN BUS - 2 AT IBEUL	IBEUL	400	09-01- 2024	
			BAYS			
SL.	Agency/	Element Name	SUB-	Voltage	DATE	Remarks
NO.	Owner		STATION	Level (kV)	DATE	Remarko
1	JSW Ltd	400KV TIE BAY OF GT1 AT IBEUL	IBEUL	400	13-01- 2024	
2	JSW Ltd	400KV GT1 MAIN BAY AT IBEUL	IBEUL	400	13-01- 2024	
3	JSW Ltd	400KV TIE BAY OF ST1 AT IBEUL	IBEUL	400	12-01- 2024	
4	JSW Ltd	400KV MAIN BAY OF ST1 AT IBEUL	IBEUL	400	12-01- 2024	
5	JSW Ltd	400KV MAIN BAY OF JHARSUGUDA-1 AT IBEUL	IBEUL	400	09-01- 2024	

Members may note.

### **Deliberation in meeting**

Members noted.

### 4.4. UFR operation during the month of January 2024.

Frequency profile for the month as follows:

MONTH	МАХ	MIN	% LESS IEGC	% WITHIN IEGC	% MORE	
	(DATE/TIME)	(DATE/TIME)	BAND	BAND	BAND	
Jan,	50.33 Hz on 21-01-2024	49.52 Hz on 17-01-2024	60	75 0	17 /	
2024	at 06:03 hrs	at 09:09 hrs	0.0	75.0	17.4	

Hence, no report of operation of UFR has been received from any of the constituents.

Members may note

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### Deliberation in meeting

Members noted.

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Minutes of 212th OCC meeting\_22.02.2024

#### Annexure-A

#### List of Participants

Name	First Join	Last Leave	In-Meeting Duration	Email	
ERPC Kolkata	2/22/24, 10:30:44 AM	2/22/24, 2:23:41 PM	3h 52m 56s	ERPC@KolkataMST.onmicrosoft.com	
SLDC,ODISHA	2/22/24, 10:30:49 AM	2/22/24, 3:51:00 PM	5h 20m 11s		
Aarif M Dikchu HEP	2/22/24, 10:34:11 AM	2/22/24, 10:34:25 AM	13s		
BDK	2/22/24, 10:44:02 AM	2/22/24, 12:28:29 PM	1h 44m 26s		
ACE CPD WBSETCL	2/22/24, 10:46:07 AM	2/22/24, 1:22:14 PM	2h 35m 5s		
TEESTA V POWER STATION	2/22/24, 10:49:02 AM	2/22/24, 12:29:02 PM	1h 40m		
shouvik banerjee	2/22/24, 10:49:07 AM	2/22/24, 12:05:57 PM	1h 16m 50s		
CE WBSLDC	2/22/24, 10:49:55 AM	2/22/24, 2:21:07 PM	3h 31m 12s		
WBPDCL (Guest)	2/22/24, 10:50:23 AM	2/22/24, 2:20:46 PM	3h 30m 22s		
	2/22/24, 10:50:24 AM	2/22/24, 3:31:48 PM	4h 41m 24s	BPMEHTA@NTPC.CO.IN	
	2/22/24, 10:52:08 AM	2/22/24, 2:20:45 PM	3h 28m 36s		
	2/22/24, 10:53:14 AM	2/22/24, 3:08:05 PM	4n 14m 51s		
Inrobbat kumar CCM(SPTL)	2/22/24, 10.55.50 AIVI	2/22/24, 11.22.40 AIVI	24111 105 4b 40m 22c		
Debarshi De (CESC) (Guest)	2/22/24, 10:54:04 AM	2/22/24, 3.43.30 PM	3h 26m 35s		
Subas Dambhare (सहास धमभरे)	2/22/24, 10:54:30 AM	2/22/24, 2:20:04 T M	1m 19s	subasd@nldc.in	
HIMADRI SEKHAR SARKAR	2/22/24, 10:54:57 AM	2/22/24, 2:21:02 PM	3h 26m 5s	himadri.sarkar@dvc.gov.in	
Agniva Chatterjee ERPC (Guest)	2/22/24, 10:55:56 AM	2/22/24, 2:20:41 PM	3h 24m 44s	······	
T BHEEMESH PSDF	2/22/24, 10:56:17 AM	2/22/24, 1:30:19 PM	2h 34m 2s		
Dhanurjay Nikhandia {धनुर्जय निखण्डिया}	2/22/24, 10:56:41 AM	2/22/24, 2:00:18 PM	3h 3m 36s	dnikhandia@powergrid.in	
Aarif M Dikchu HEP	2/22/24, 10:57:14 AM	2/22/24, 12:29:08 PM	1h 31m 53s		
SMS SAHOO, DGM(ELECT), OPTCL, BHUBANES	2/22/24, 10:57:41 AM	2/22/24, 11:07:47 AM	10m 5s		
Hareesh Puthiyadath	2/22/24, 10:57:45 AM	2/22/24, 12:30:51 PM	1h 33m 6s	hareesh.p@greenkogroup.com	
Suresh Babu , NTPC Darlipali	2/22/24, 10:58:18 AM	2/22/24, 2:08:19 PM	3h 10m		
Aman	2/22/24, 10:58:45 AM	2/22/24, 3:46:34 PM	4h 47m 49s	an@sikkimurjalimited.in	
WBSLDC	2/22/24, 10:59:16 AM	2/23/24, 4:49:06 PM	5h 49m 49s		
Prasanna Kumar Sahoo	2/22/24, 10:59:19 AM	2/22/24, 2:38:50 PM	3h 39m 31s	PRASANNASAHOO@NTPC.CO.IN	
KUNAL SAURAV (ERPC)	2/22/24, 10:59:57 AM	2/22/24, 1:58:37 PM	2h 58m 39s		
Akash Kumar Modi	2/22/24, 11:00:30 AM	2/22/24, 3:11:19 PM	4h 10m 48s	akmodi@erldc.onmicrosoft.com	
S Konar	2/22/24, 11:00:31 AM	2/22/24, 2:31:04 PM	3h 30m 32s		
Soumya Mukherjee-HEL Operations	2/22/24, 11:00:39 AM	2/22/24, 2:20:44 PM	3n 20m 4s	anaingh@arlda.anmiaraaaft.aam	
	2/22/24, 11:01:10 AIVI	2/22/24, 1.20.49 PW	211 1911 395 2h 10m 10c		
Shukla Braiesh	2/22/24, 11:01:12 AM	2/22/24, 2.20.32 FW	3h 22m 2s	hraiesh shukla@tatanower.com	
SMS SAHOO DGM(ELECT) OPTCL (Guest)	2/22/24, 11:02:04 AM	2/22/24, 2:24:07 PM	3h 18m 58s	brajesn.shukia@tatapower.com	
ms erpc	2/22/24, 11:03:48 AM	2/22/24, 8:08:07 PM	9h 4m 18s		
HEP	2/22/24, 11:04:09 AM	2/22/24, 1:46:27 PM	2h 42m 18s		
Bilash Achari	2/22/24, 11:04:12 AM	2/22/24, 2:20:40 PM	3h 16m 27s	bilash.achari@erldc.onmicrosoft.com	
guest	2/22/24, 11:04:16 AM	2/22/24, 11:37:02 AM	32m 46s		
Srijit	2/22/24, 11:04:51 AM	2/22/24, 12:13:17 PM	1h 8m 26s		
Saurav Kr Sahay	2/22/24, 11:04:52 AM	2/22/24, 2:20:45 PM	3h 15m 53s	saurav.sahay@erldc.onmicrosoft.com	
Chandan Mallick	2/22/24, 11:05:35 AM	2/22/24, 2:20:49 PM	3h 15m 14s	chandan.mallick@erldc.onmicrosoft.com	
RAHUL BICHPURIYA	2/22/24, 11:05:59 AM	2/22/24, 2:30:43 PM	3h 23m 35s	RAHULBICHPURIYA@NTPC.CO.IN	
Rahul Anand NTPC	2/22/24, 11:06:18 AM	2/22/24, 2:19:09 PM	3h 12m 50s		
Gulshan, Rongnichu	2/22/24, 11:07:06 AM	2/22/24, 12:01:39 PM	54m 33s		
Sourav Mandal ERLDC	2/22/24, 11:07:14 AM	2/22/24, 3:38:59 PM	4h 31m 44s		
Jitendra Prasad Mallik	2/22/24, 11:07:14 AM	2/22/24, 2:44:25 PM	3n 3/m 10s		
	2/22/24, 11:07:20 AIVI	2/22/24, 11.10.23 AIVI	2111 505 3h 25m 17e		
Saibal Ghosh	2/22/24, 11:07:53 AM	2/23/24, 2:33:01 PM	5h 41m 13s	saibal@erldc.onmicrosoft.com	
P Biju	2/22/24, 11:07:57 AM	2/22/24, 1:21:23 PM	2h 13m 25s	PBLIU@NTPC CO IN	
Pranav Jena	2/22/24, 11:08:24 AM	2/22/24, 3:57:38 PM	4h 49m 14s	ppiena@KolkataMST.onmicrosoft.com	
Laldhari Kumar	2/22/24, 11:08:56 AM	2/22/24, 11:08:59 AM	2s	laldhari@erldc.onmicrosoft.com	
Atanu Mandal	2/22/24, 11:09:05 AM	2/22/24, 2:20:43 PM	3h 11m 38s	atanumandal@erldc.onmicrosoft.com	
Manas Das	2/22/24, 11:09:10 AM	2/22/24, 2:20:56 PM	3h 11m 46s	-	
Chandan kumar	2/22/24, 11:09:16 AM	2/22/24, 2:20:42 PM	3h 11m 25s	chandan@erldc.onmicrosoft.com	
Laldhari Kumar	2/22/24, 11:10:14 AM	2/22/24, 2:33:29 PM	3h 23m 15s		
Pinki Debnath/ERLDC	2/22/24, 11:10:17 AM	2/22/24, 2:20:48 PM	3h 10m 31s		
Saugato ,Grid-India	2/22/24, 11:11:31 AM	2/22/24, 11:45:47 AM	34m 15s		
Kritika Debnath	2/22/24, 11:11:34 AM	2/22/24, 2:20:45 PM	3h 9m 11s	Kritika@erldc.onmicrosoft.com	
INISNANT Kumar Shankwar	2/22/24, 11:11:53 AM	2/22/24, 2:21:08 PM	2n 49m 53s	INISNANT.KUMAR@energy-sel.com	
Amalendu Nanda	2/22/24, 11:13:50 AM	2/22/24, 11:53:21 AM	35 6m 30s	amalendu nanda@ongo co in	
Nitin	2/22/24, 11.14.12 AIVI	2/22/24, 2.20.42 PW	2h 1m 2s	апакнии.папиашорус.со.п	
	2/22/24, 11:14:10 AM	2/22/24, 1.10.19 PM	3h 7m 44s		
SLDC, JHARKHAND (Guest)	2/22/24, 11:15:34 AM	2/22/24, 2:20:51 PM	3h 5m 16s		
Ankit Jain (Guest)	2/22/24, 11:15:37 AM	2/22/24, 2:25:35 PM	3h 9m 58s		
Sourav Biswas	2/22/24, 11:16:26 AM	2/23/24, 10:41:49 AM	23h 25m 22s	sbiswas@erldc.onmicrosoft.com	
Partha Ghosh {पार्थ घोष}	2/22/24, 11:17:21 AM	2/22/24, 2:13:31 PM	2h 56m 10s	partha.ghosh@powergrid.in	
Gagan Kumar	2/22/24, 11:17:38 AM	2/22/24, 2:15:10 PM	2h 57m 31s		
WBSEDCL (Guest)	2/22/24, 11:19:16 AM	2/22/24, 2:23:34 PM	3h 4m 18s		
Jeti Rabisankar	2/22/24, 11:21:10 AM	2/22/24, 2:31:54 PM	3h 10m 43s	lietir@tatapower.com	

Name	First Join	Last Leave	In-Meeting Duration	Email
VIJAY KUMAR NHPC (Guest)	2/22/24, 11:22:36 AM	2/22/24, 3:54:30 PM	4h 31m 53s	
Satvapriva Behera	2/22/24, 11:24:35 AM	2/22/24, 2:22:16 PM	2h 57m 40s	satvapriva.behera@opgc.co.in
Sudeep Kumar {सुदीप कुमार}	2/22/24, 11:27:35 AM	2/22/24, 2:20:50 PM	2h 53m 15s	sudeepkumar@powergrid.in
V K GARG	2/22/24, 11:29:09 AM	2/22/24, 12:49:12 PM	1h 20m 2s	VINAYGARG@NTPC.CO.IN
SLDC,DVC	2/22/24, 11:30:10 AM	2/22/24, 2:22:17 PM	2h 52m 7s	
Mrityunjaya Kumar	2/22/24, 11:30:52 AM	2/22/24, 11:32:17 AM	1m 24s	
Mrityunjaya Kumar (Guest)	2/22/24, 11:32:00 AM	2/22/24, 11:35:28 AM	3m 27s	
SUDHANSU SEKHAR	2/22/24, 11:33:34 AM	2/22/24, 2:07:04 PM	2h 33m 29s	SSSAHOO@NTPC.CO.IN
Raut Pravin	2/22/24, 11:34:06 AM	2/22/24, 2:52:17 PM	3h 18m 10s	rautpv@tatapower.com
Abhayanand Thakur	2/22/24, 11:40:43 AM	2/22/24, 11:41:20 AM	37s	
Pritam	2/22/24, 11:43:33 AM	2/22/24, 12:28:14 PM	44m 40s	
Srimalya Ghosal	2/22/24, 11:50:03 AM	2/22/24, 1:22:53 PM	35m 43s	sghosal@erldc.onmicrosoft.com
Mrityunjaya Kumar (Guest)	2/22/24, 11:51:29 AM	2/22/24, 3:39:23 PM	3h 47m 53s	
guest	2/22/24, 11:55:03 AM	2/22/24, 11:59:38 AM	4m 34s	
pramod	2/22/24, 11:55:34 AM	2/22/24, 12:30:57 PM	35m 22s	
GUEST	2/22/24, 11:59:44 AM	2/22/24, 12:09:06 PM	9m 22s	
SANJAY KUMAR SINGH {संजय कुमार सिंह}	2/22/24, 12:08:03 PM	2/22/24, 2:22:03 PM	2h 14m	sanjai.singh@powergrid.in
guest	2/22/24, 12:11:23 PM	2/22/24, 1:17:45 PM	1h 6m 22s	
Rahul NTPC	2/22/24, 12:14:14 PM	2/22/24, 12:30:00 PM	15m 46s	
rtamcer1	2/22/24, 12:14:17 PM	2/22/24, 2:21:45 PM	2h 7m 27s	rtamcer1@powergrid.in
amitabh kumar/eee/sldc/BSPTCL	2/22/24, 12:29:10 PM	2/22/24, 12:31:07 PM	1m 56s	
Rishabh Kumar	2/22/24, 12:30:54 PM	2/22/24, 12:35:29 PM	4m 35s	
Teesta V PS	2/22/24, 12:30:57 PM	2/22/24, 4:05:35 PM	3h 34m 37s	
pk	2/22/24, 12:31:46 PM	2/22/24, 12:37:41 PM	5m 55s	
Abhilash Gour (DANS)	2/22/24, 12:36:33 PM	2/22/24, 1:11:37 PM	35m 4s	
Rishabh	2/22/24, 12:36:42 PM	2/22/24, 1:14:56 PM	38m 13s	
Kumar Ashwini [Powerlinks]	2/22/24, 12:37:19 PM	2/22/24, 2:23:08 PM	1h 45m 48s	ashwinikumar@tatapower.com
Singh Parminder	2/22/24, 12:41:05 PM	2/22/24, 3:07:20 PM	2h 26m 14s	parminder.singh@tatapower.com
Sunil Dave	2/22/24, 12:41:53 PM	2/22/24, 1:54:21 PM	1h 12m 27s	
SLDC Ranchi	2/22/24, 12:42:31 PM	2/22/24, 2:34:19 PM	1h 51m 47s	
amitabh kumar/eee/sldc/BSPTCL	2/22/24, 12:44:00 PM	2/22/24, 1:14:33 PM	30m 32s	
P K De, ERPC	2/22/24, 12:44:34 PM	2/22/24, 2:31:22 PM	1h 46m 47s	
DEBABRATA PATEL	2/22/24, 1:07:02 PM	2/22/24, 1:48:01 PM	40m 58s	DEBABRATAPATEL@NTPC.CO.IN
KIRAN KUMAR KONDERAPU	2/22/24, 1:12:59 PM	2/22/24, 1:52:14 PM	39m 14s	KIRANKUMARKONDERAPU@NTPC.CO.IN
GUEST	2/22/24, 1:20:14 PM	2/22/24, 2:29:22 PM	1h 5m 21s	
Ranjan Das	2/22/24, 1:21:57 PM	2/22/24, 2:20:44 PM	58m 47s	
M Jain	2/22/24, 1:22:56 PM	2/22/24, 1:39:31 PM	11m 10s	MANISHJAIN02@NTPC.CO.IN
Rahul NTPC	2/22/24, 2:19:04 PM	2/22/24, 2:20:43 PM	1m 39s	

Annexure-B.2.1

SI. No.	Name of State/Entity	Region	Name of Entity	Name of Scheme and Unique ID No	Estimated cost by entity (Rs. Crore)
1	Odisha	ER	OPTCL	Implementation of WAMS (Wide Area Management System) in Odisha. (350)	19.36
2	Odisha	ER	OPTCL	Implementation of STAMS (State Transmission Asset Management System) in Odisha. (368)	200.00
3	Odisha	ER	OPTCL	Physical Separation of OT Network from IT network based on MPLS-TP Technology. (405)	49.56
4	West Bengal	ER	WBSETCL	Supply & Installation of Bus-Bar Protection Panels including Bus Differential Relays and GPS based Time Synchronization Equipments in different 220 kV & 132 kV Sub- stations of WBSETCL. (413)	55.41
5	DVC	ER	DVC	Renovation & Modernization of DVC T&D System (Phase-I). 423)	387.51
6	West Bengal	ER	WBSETCL	Replacement of existing conductor by higher capacity HTLS conductor in different 220KV transmission lines of WBSETCL. (431)	252.34
7	Bihar	ER	BSPTCL	Implementation of SAS for control and monitoring of existing 10 Nos of 132/33 Kv substation of Transmission circle of Patna including modification of existing IEDs and field equipment of BSPTCL. (437)	105.10
8	DVC	ER	DVC	Implementation of SAMAST ((Scheduling, Accounting, Metering & Settlement of Transactions in Electricity) in DVC. (438)	18.96
9	Sikkim	ER	Sikkim	Implementation of SAMAST (Scheduling, Accounting, Metering & Settlement of Transactions in Electricity) in Sikkim. (398)	24.51
10	Sikkim	ER	Sikkim	Re-Conductoring and Strengthening of the 66kV Transmission line from LLHP S/Stn to Pakyong S/Stn and Ring Main System of Gangtok by ACCC HTLS Conductor. (399)	29.33

#### ANNEXURE B.7

#### Approved Maintenance Schedule of Thermal Generating units in the month of March '2024

				Period (as pe	er LGBR 2023-24)			Approved period			Whether as	
System	Station	Unit No.	Capacity( MW)	From	То	No. of Days	Reason	From	То	No of days	per LGBR or not	Remarks
DVC	Bokaro-A TPS	1	500	15.02.2024	20.03.2024	35	COH- Blr, Turb, Gen	_	_	_	NO	NOT AVAILED
							BOH, De-Nox, FGD hookup and other pollution control					
DVC	RTPS	2	600	01.07.2023	28.08.2023	45	equipment upgradation.	28.02.2024	27.03.2024	28	NO	APPROVED
NTPC	KhSTPS	6	500	01.03.2024	30.03.2024	30	Boiler Maintenance		_	1	NO	NOT AVAILED
NTPC	Barauni	8	250	01.03.2024	30.03.2024	30	Boiler + Turb Bearings inspection + All Turbine Valves	_	_	_	NO	NOT AVAILED
												NOT AVAILED AS ALREADY AVAILED IN
WBPDCL	Kolaghat TPS	5	210	21.03.2024	30.03.2024	10	PG Test/ Boiler License Renewal	_		_	NO	FEB'24

#### Annexure D.1

	Upuateu Anticipateu Feak Demanu (in MW) of EK	a its constituents for March 2	024
1	BIHAR	Demand (MW)	Energy Requirement (MU)
	NET MAX DEMAND	6358	3294
	NET POWER AVAILABILITY- Own Sources	428	257
	Central Sector+Bi-Lateral	6817	3889
	SURPLUS(+)/DEFICIT(-)	887	852
2	JHARKHAND		
	NET MAXIMUM DEMAND	1845	1094
	NET POWER AVAILABILITY- Own Source	360	197
	Central Sector+Bi-Lateral+IPP	891	649
	SURPLUS(+)/DEFICIT(-)	-594	-248
3	DVC		
	NET MAXIMUM DEMAND	3532	2190
	NET POWER AVAILABILITY- Own Source	5721	3463
	Central Sector+MPL	267	131
	Bi-lateral export by DVC	2001	1314
	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	455	90
			50
4	ODISHA		
4	VDISHA	4500	2424
	NET MAXIMUM DEMAND (UWN)	4500	2214
	NET MAXIMUM DEMAND (In Case of CPP Drawai)	5400	3214
	NET POWER AVAILABILITY - Own Source	2680	2105
	Central Sector	1900	1293
	SURPLUS(+)/DEFICIT(-) (OWN)	80	-36
	SURPLUS(+)/DEFICIT(-) (In Case, 600 MW CPP Drawal)	-820	184
5	WEST BENGAL		
	WBSEDCL		
5.1	NET MAXIMUM DEMAND	7600	5042
	NET MAXIMUM DEMAND (Incl. Sikkim)	7605	5046
	NET POWER AVAILABILITY- Own Source (Incl. DPL)	5480	2916
	Central Sector+Bi-lateral+IPP&CPP+TLDP	2696	1328
	EXPORT (To SIKKIM)	5	4
	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	571	-802
5.2	CESC		
	NET MAXIMUM DEMAND	1920	963
	NET POWER AVAILABILITY- Own Source	700	483
	IMPORT FROM HEL	540	365
	TOTAL AVAILABILITY OF CESC	1240	848
	DEFICIT(-) for Import	-680	-115
	WEST BENGAL (WBSEDCL+CESC+IPCL)		
	(excluding DVC's supply to WBSEDCL's command area)		
	NET MAXIMUM DEMAND	10179	6005
	NET POWER AVAILABILITY- Own Source	6343	3399
	CS SHARE+BILATERAL+IPP/CPP+TLDP+HEL	3236	1693
	SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXPORT	59	-913
	SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXPORT	54	-917
6	SIKKIM		
0	NET MAXIMUM DEMAND	120	62
	NET DOWED AVAILABILITY Own Source	2	2
	Control Souton	57	2
		57	20
	SURFLUS(T)/DEFICIT(-)	-01	-37
	EASTEDN DECION	+	
	EASTEKN KEGIUN	27529	16070
	INET MAXIMUM DEMAND	2/538	160/9
	INET MAXIMUM DEMAND (In Case of CPP Drawal of Odisha)	27/29	15859
	BILATERAL EXPORT BY DVC (Incl. Bangladesh)	2001	1314
	EXPORT BY WBSEDCL TO SIKKIM	5	4
	EXPORT TO B'DESH & NEPAL OTHER THAN DVC	642	431
	NET TOTAL POWER AVAILABILITY OF ER	28482	15786
	(INCLUDING CS ALLOCATION +BILATERAL+IPP/CPP+HEL)		
	SURPLUS(+)/DEFICIT(-)	939	-297
	SURPLUS(+)/DEFICIT(-) (In Case of CPP Drawal for Odisha)	748	-77

### Updated Anticipated Peak Demand (in MW) of ER & its constituents for March 2024