



सत्यमेव जयते



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

**Eastern Regional Power Committee**

14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033  
14 Golf Club Road, Tollygunj, Kolkata-700033

सं./NO. पू.क्षे.वि.स./PROTECTION/2024/658

दिनांक /DATE:11.07.2024

सेवा में / To,

संलग्न सूची के अनुसार / As per list enclosed.

विषय : पू.क्षे.वि.स. की 137 वीं संरक्षण समन्वय उप-समिति (पीसीसी) की बैठक हेतु सूचना।

**Sub: Notice for 137<sup>th</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC.**

Sir/Madam,

यह सूचित किया जाता है कि पू.क्षे.वि.स की 137 वीं पीसीसी बैठक, 30 जुलाई 2024 (मंगलवार) को 10:30 बजे पूर्वाह्न से एम एस टीम्स (ऑनलाइन) के द्वारा वर्चुअल माध्यम से आयोजित की जाएगी। मीटिंग लिंक ई-मेल या संदेश के माध्यम से अग्रेषित किया जाएगा। Notice is hereby given that 137<sup>th</sup> PCC meeting of ERPC will be held on 30<sup>th</sup> July 2024 (Tuesday) from 10:30 Hrs (Forenoon) through MS Teams(online) in virtual mode. The meeting link will be forwarded through e-mail or message.

चर्चा हेतु अस्थायी कार्यसूची बिन्दुएं निम्नानुसार होंगे :

The tentative agenda items for discussion will be as follows:

- 1) Confirmation of the minutes of 136<sup>th</sup> Protection sub-Committee Meeting of ERPC
- 2) Analysis of following grid disturbances of June 2024:
  - Repeated disturbance at 220 kV Budhipadar(OPTCL) S/s and 220 kV Ib-TPS (OPGC) S/s on 05.06.2024 at 04:11 Hrs and on 13.06.2024 at 19:11 Hrs
  - Disturbance at 220 kV Tenughat (TVNL) S/s and 220 kV Govindpur (JUSNL) S/s on 13.06.2024 at 16:55 Hrs
  - Disturbance at 220 kV Baruipur (WBSETCL) S/s on 14.06.2024 at 14:35 Hrs
  - Disturbance at 220 kV New Meli (PG) S/s, 220 kV Jorethang HEP and 220 kV Tashiding HEP on 19.06.2024 at 06:38 Hrs
  - Disturbance at 400 kV Meeramundali B (OPTCL) S/s and 400 kV GMR S/s on 20.06.2024 at 19:18 Hrs
- 3) Follow up of decision of previous Protection Coordination sub-Committee Meetings.
- 4) Single line tripping incidences of transmission elements for June 2024 as attached at **Annexure 1**.

आपसे निवेदन है कि बैठक के दौरान अर्थपूर्ण विश्लेषण हेतु उपरोक्त ट्रिपिंग से संबंधित समस्त दस्तावेज (SLD, SOE, DR, Relay and schematic diagram of auxiliary supply, wherever applicable) सहित विस्तृत रिपोर्ट प्रस्तुत करें। आपसे अनुरोध किया जाता है कि संरक्षण डाटाबेस प्रबंधन प्रणाली में लागू ट्रिपिंग घटना सूचना प्रणाली का विवरण ऑन-लाइन में अपलोड करें [www.erpc-protectiondb.in](http://www.erpc-protectiondb.in).

You are requested to kindly furnish the detail report along with all records (SLD, SOE, DR, Relay and schematic diagram of auxiliary supply, wherever applicable) related to above tripping well in advance for meaningful analysis. You are also requested to upload the details in on-line tripping incident reporting system implemented in Protection Database Management System( [www.erpc-protectiondb.in](http://www.erpc-protectiondb.in).)

बैठक में आपकी उपस्थिति महत्वपूर्ण है।

Your participation in the meeting is highly solicited.

भवदीय / Yours faithfully,

for Kumar Satyam  
11/8/2024

(आई. के. मेहरा/ I. K. Mehra)

अधीक्षण अभियंता (पी.एस)

Superintending Engineer (PS)

14 गोल्फ क्लब रोड, टॉलीगंज, कोलकाता - 700 033 | 14 Golf Club Road, Tollygunge, Kolkata - 700 033.

Tele: 24239657, 24239651, 24239650. Fax: 24239652, 24239653. [www.erpc.gov.in](http://www.erpc.gov.in), Email: mserpc-power@nic.in

**LIST OF ADDRESSES:**

Chief Engineer, Trans (O&M) Bihar State Power Transmission Limited, Vidyut Bhawan, Bailey Road, Patna-800021	Chief Engineer (CRITL) Bihar State Power Transmission Limited, Vidyut Bhawan, Bailey, Road, Patna-800021
Chief Engineer( System Operation), SLDC , BSPTCL, Patna-800021	
Chief Engineer (SLDC) Damodar Valley Corporation, GOMD-I Premises, P.O.- DaneshSeikh Lane, Howrah- 711109	Chief Engineer (CTC) Damodar Valley Corporation, P.O. Maithon Dam, Dist. Dhanbad,Jharkhand-828207
Chief Engineer, (CRITL) Jharkhand Urja Sancharan Nigam Limited Kusai Colony, Doranda, Ranchi-834002	Chief Engineer (CLD) Jharkhand UrjaSancharan Nigam Limited, Kusai Colony,Doranda, Ranchi-834002
Chief General Manager (O&M), OPTCL, Janpath, Bhubaneswar, Odisha – 751 022. FAX: 0674-2542932 cgm.onm@optcl.co.in	Sr. General Manager (PPA), Technical Wing, OHPCL, Orissa State Police Housing & Welfare Corp. Bldg. VaniviharChowk, Janpath, Bhubaneswar-752022
Chief Load Dispatcher, SLDC OPTCL, P.O. Mancheswar Rly. Colony Bhubaneswar-751017	Chief Engineer (Testing), WBSETCL Central Testing Laboratory, Abhikshan, Salt Lake, Kolkata-700091 ( Fax no. 2367-3578/1235 )
Chief Engineer (CLD) WBSETCL, P.O.Danesh Sheikh Lane, AndulRoad, Howrah-711109	Addl. Chief Engineer (ALDC) West Bengal Electricity Distribution Company Ltd VidyutBhavan, 7 <sup>th</sup> Floor, Bidhannagar, Sector-I Salt Lake City, Kolkata-700091(Fax-033-2334-5862)
Dy. Chief Engineer (Testing)/ Sr. Manager (Testing) CESC Ltd.,4, SasiSekhar Bose Road, Kolkata-700025	General Manager (O&M) KhSTPS, NTPC Ltd., P.O. Deepti Nagar, Dist. Bhagalpur, Bihar-813203
General Manager(O&M) FSTPS, NTPC Ltd., P.O. Nabarun, Dist. Murshidabad, West Bengal-742236	Dy. General Manager (Engineering), WBPDC, OS Dept. Corporate Office, 3/C, L.A Block, Salt Lake-III, Kolkata-700098 (Fax-033-23350516)
General Manager (O&M) Barh STPS, NTPC Ltd., P.O. NTPC Barh, Dist. Patna, Bihar-803213	General Manager (OS), ERHQ-II, NTPC Ltd., 3 <sup>rd</sup> flr. OLIC Building, Plot no. N 17/2, Nayapalli, Unit-8 Bhubaneswar- 751012 (Fax No. 0674-2540919)
General Manager(O&M), TSTPS, NTPC Ltd., P.O.Kaniha, Dist. Angul, Orissa-759117	General Manager (AM), POWERGRID, Odisha Projects, Sahid Nagar, Bhubaneswar – 751 007
General Manager (OS), ERHQ-I, NTPC Ltd., LoknayakJaiprakashBhawan, (2 <sup>nd</sup> Floor), DakBunglowChawk, Patna-800001	Manager (Electrical), Adhunik Power & Natural Resources Ltd. “Lansdowne Towers, Kolkata-700020 (Fax No. 033-2289 0285)
Executive Director (O&M) NHPC Ltd., NHPC Office Complex, Sector-33, Faridabad, Haryana-121003 (Fax-01292272413)	Electrical Superintending Engineer, TTPS, TenughatVidyut Nigam Ltd.,Lalpania, Dist. Bokaro, Jharkhand-829149
Dy. General Manager (Electrical) IB Thermal Power Station, OPGCL Banhapalli, Dist. Jharsuguda-768234, Orissa	General Manager (AM), ER-I Power Grid Corporation of India Ltd., Alankar Place, Boring Road, Patna-800001
Chief Engineer (Trans.) Power Deptt., Govt. of Sikkim, Gangtok-731010	Sr. Manager (CTMC) Durgapur Projects Limited,Durgapur-713201
Executive Director, ERLDC, POSOCO, Tollygunge, Kolkata-700033	Head –Regulatory and contracts, IndiGrid Limited , 247 Embassy, Office No 107, ‘B’ Wing, Hindustan Co. Bus Stop, Gandhi Nagar, L.B.S. Road, Vikhroli West, Mumbai – 400 079. Ph : +91 845509 96408
General Manager (AM), ER-II Power Grid Corporation of India Ltd., J-I-15, Block-EP, Sector-V,Salt Lake,Kolkata-91	The Plant Head, Maithon Power Limited, Maithon Office, MA 5 Gogna, Dist. Dhanbad, Jhankand State, PIN-828207
General Manager (P&O), PTC Ltd., Kanchanjunga Bldg.,18, Barakhamba Road,	

New Delhi-110001	
Managing Director, Bhutan Power Corporation Post Box no. 580, Thimpu, Bhutan.	Managing Director, Druk Green Power Corprn. P.O. Box-1351, Thimpu, Bhutan.
Associate Director ( Commercial and Regulatory) Darbhanga-Motihari Transmission Company Limited (DMTCL),503,Windsor, Off CST Road, Kalina, Santacruz(E), Mumbai-400098	The Plant Head, JITPL. (FAX:011-26139256-65)
General Manager, Sikkim Urja Limited, New Delhi (FAX:011-46529744)	President , TPTEL, Bhikaji Cama Place, New Delhi , 110066
Director (NPC), CEA, NRPC Building, KatwariaSarai, New Delhi- 110016	President, Dans Energy Pvt. Ltd, 5th Floor, DLF Building No. 8, Tower-C, Gurgaon - 722002
Director, Shiga Energy Pw. Ltd., 5th Floor, DLF Building No. 8, Tower-C, Gurgaon - 722002	DGM (E&I), HALDIA ENERGY LIMITED, BARIK BHAWAN, KOKATA-700072, FAX: 033-22360955
The Plant Head, Dikchu HEP, Sikkim	

मुख्य अभियंता, ट्रांस (ओ एंड एम), बिहार स्टेट पावर ट्रांसमिशन लिमिटेड, विद्युत भवन, बेली रोड, पटना-800021	मुख्य अभियंता (सीआरआईटीएल), बिहार स्टेट पावर ट्रांसमिशन लिमिटेड, विद्युत भवन, बेली, रोड, पटना-800021
मुख्य अभियंता (सिस्टम ऑपरेशन), एसएलडीसी, बीएसपीटीसीएल, पटना-800021	
मुख्य अभियंता (एसएलडीसी), दामोदर वैली कॉर्पोरेशन, जीओएमडी-1 परिसर, पी.ओ.- दानेशशेख लेन, हावड़ा- 711109	मुख्य अभियंता (सीटीसी), दामोदर घाटी निगम, पी.ओ. मैथन बांध, जिला। धनबाद, झारखण्ड-828207
मुख्य अभियंता (सीआरआईटीएल), झारखण्ड ऊर्जा संचरण निगम लिमिटेड कुसाई कॉलोनी, डोरंडा, रांची-834002	मुख्य अभियंता (सीएलडी), झारखंड ऊर्जा संचरण निगम लिमिटेड, कुसाई कॉलोनी, डोरंडा, रांची-834002
मुख्य महाप्रबंधक (ओ एंड एम), ओपीटीसीएल, जनपथ, भुवनेश्वर, ओडिशा – 751 022. फैक्स: 0674-2542932 cgm.onm@optcl.co.in	वरिष्ठ महाप्रबंधक (पीपीए), तकनीकी विंग, ओएचपीसीएल, उड़ीसा राज्य पुलिस आवास एवं कल्याण निगम बिल्डिंग वाणीविहार चौक, जनपथ, भुवनेश्वर-752022
मुख्य लोड डिस्पैचर, एसएलडीसी ओपीटीसीएल, पी.ओ. मंचेश्वर रेलवे कॉलोनी भुवनेश्वर-751017	मुख्य अभियंता (परीक्षण), डब्ल्यूबीएसईटीसीएल केंद्रीय परीक्षण प्रयोगशाला, अभिक्षण, साल्ट लेक, कोलकाता-700091 (फैक्स नंबर 2367-3578/1235)
मुख्य अभियंता (सीएलडी), डब्ल्यूबीएसईटीसीएल, पी.ओ. दानेश शेख लेन, अंदुलरोड, हावड़ा-711109	अतिरिक्त मुख्य अभियंता (एएलडीसी), पश्चिम बंगाल विद्युत वितरण कंपनी लिमिटेड विद्युत भवन, 7वीं मंजिल, बिधाननगर, सेक्टर-1 साल्ट लेक सिटी, कोलकाता-700091 (फैक्स-033-2334-5862)
उप मुख्य अभियंता (परीक्षण)/वरिष्ठ प्रबंधक (परीक्षण) सीईएससी लिमिटेड, 4, शशि शेखर बोस रोड, कोलकाता-700025	महाप्रबंधक (ओ एंड एम), खएसटीपीएस, एनटीपीसी लिमिटेड, पी.ओ. दीप्ति नगर, जिला भागलपुर, बिहार-813203
महाप्रबंधक (ओ एंड एम) एफएसटीपीएस, एनटीपीसी लिमिटेड, पी.ओ. नबारून, जिला- मुर्शिदाबाद, पश्चिम बंगाल-742236	उप. महाप्रबंधक (इंजीनियरिंग), डब्ल्यूबीपीडीसीएल, ओएस विभाग कॉर्पोरेट कार्यालय, 3/सी, एलए ब्लॉक, साल्ट लेक-III, कोलकाता-700098 (फैक्स-033-23350516)
महाप्रबंधक (ओ एंड एम), बाढ़ एसटीपीएस, एनटीपीसी लिमिटेड, पी.ओ. एनटीपीसी बाढ़, जिला- पटना, बिहार-803213	महाप्रबंधक (ओएस), ईआरएचक्यू-II, एनटीपीसी लिमिटेड, 3 <sup>rd</sup> Floor, ओएलआईसी बिल्डिंग, प्लॉट नं. एन 17/2, नयापल्ली, यूनिट-8 भुवनेश्वर- 751012 (फैक्स नंबर 0674-2540919)
महाप्रबंधक (ओ एंड एम), टीएसटीपीएस, एनटीपीसी लिमिटेड, पी.ओ.कनिहा, जिला- अंगुल, उड़ीसा- 759117	महाप्रबंधक (एएम), पावरग्रिड, ओडिशा प्रोजेक्ट्स, साहिद नगर, भुवनेश्वर - 751 007
महाप्रबंधक (ओएस), ईआरएचक्यू-I, एनटीपीसी लिमिटेड, लोकनायक जयप्रकाश भवन, (दूसरी मंजिल), डाकबंगलाचौक, पटना-800001	प्रबंधक (इलेक्ट्रिकल), आधुनिक पावर एंड नेचुरल रिसोर्सेज लिमिटेड, लैंसडाउन टावर्स, कोलकाता-700020 (फैक्स नंबर 033-2289 0285)

कार्यकारी निदेशक (ओ एंड एम), एनएचपीसी लिमिटेड, एनएचपीसी कार्यालय परिसर, सेक्टर-33, फरीदाबाद, हरियाणा-121003 (फैक्स- 01292272413)	विद्युत अधीक्षण अभियंता, टीटीपीएस, तेनुघाट विद्युत निगम लिमिटेड, ललपनिया, जिला। बोकारो, झारखण्ड-829149
उप महाप्रबंधक (विद्युत), आईबी थर्मल पावर स्टेशन, ओपीजीसीएल बनहापल्ली, जिला। झारसुगुड़ा-768234, उड़ीसा	महाप्रबंधक (एएम), ईआर-I पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड, अलंकार प्लेस, बोरिंग रोड, पटना- 800001
मुख्य अभियंता (ट्रांस.), विद्युत विभाग, सरकार। सिक्किम, गंगटोक-731010	वरिष्ठ प्रबंधक (सीटीएमसी), दुर्गापुर प्रोजेक्ट्स लिमिटेड, दुर्गापुर-713201
कार्यकारी निदेशक, ईआरएलडीसी, पोसोको, टॉलीगंज, कोलकाता-700033	प्रमुख-नियामक और अनुबंध, इंडीग्रिड लिमिटेड, 247 दूतावास, कार्यालय संख्या 107, 'बी' विंग, हिंदुस्तान कंपनी बस स्टॉप, गांधी नगर, एल.बी.एस. रोड, विक्रोली, पश्चिम, मुंबई - 400 079 फोन: +91 845509 96408
महाप्रबंधक (एएम), ईआर-II इंडिया लिमिटेड का पावर ग्रिड कॉर्पोरेशन।, जे-आई-15, ब्लॉक-ईपी, सेक्टर-वी, साल्ट लेक, कोलकाता- 91	प्लांट हेड, मैथन पावर लिमिटेड, मैथन कार्यालय, एमए 5 गोगना, जिला। धनबाद, झारखंड राज्य, पिन-828207
महाप्रबंधक (पी एंड ओ), पीटीसी लिमिटेड, कंचनजंगा बिल्डिंग, 18, बाराखंभा रोड, नई दिल्ली-110001	
प्रबंध निदेशक, भूटान पावर कॉर्पोरेशन पोस्ट बॉक्स नं. 580, थिम्पू, भूटान।	प्रबंध निदेशक, डुक ग्रीन पावर कॉर्पोरेशन। पी.ओ. बॉक्स-1351, थिम्पू, भूटान।
सह निदेशक (वाणिज्यिक एवं नियामक), दरभंगा- मोतिहारी ट्रांसमिशन कंपनी लिमिटेड (डीएमटीसीएल), 503, विंडसर, ऑफ सीएसटी रोड, कलिना, सांताक्रूज़ (पूर्व), मुंबई- 400098	प्लांट हेड, जेआईटीपीएल। (फैक्स:011-26139256-65)
महाप्रबंधक, सिक्किम ऊर्जा लिमिटेड, नई दिल्ली (फैक्स:011-46529744)	अध्यक्ष, टीपीटीएल, भीकाजी कामा प्लेस, नई दिल्ली- 110066
निदेशक (एनपीसी), सीईए, एनआरपीसी बिल्डिंग, कटवारियासराय, नई दिल्ली- 110016	अध्यक्ष, डान्स एनर्जी प्रा. लिमिटेड, 5वीं मंजिल, डीएलएफ बिल्डिंग नंबर 8, टावर-सी, गुडगांव - 722002
निदेशक, शिगा एनर्जी पी.डब्ल्यू. लिमिटेड, 5वीं मंजिल, डीएलएफ बिल्डिंग नंबर 8, टावर-सी, गुडगांव - 722002	डीजीएम (ई एंड आई), हल्दिया एनर्जी लिमिटेड, बारीक भवन, कोकाता-700072, फैक्स: 033-22360955
प्लांट हेड, डिक्चु एचईपी, सिक्किम ।	

## Annexure 1

List of important transmission lines in ER which tripped in June-2024

Sl. No.	LINE NAME	TRIP DATE	TRIP TIME	RESTORATION DATE	RESTORATION TIME	Relay Indication LOCAL END	Relay Indication REMOTE END	Reason	Fault Clearance time in msec	Remarks	DR Configuration Discrepancy	DR/EL RECEIVED FROM LOCAL END	DR/EL RECEIVED FROM REMOTE END
1	400KV-KODERMA-BOKARO-1	01-06-2024	14:04	01-06-2024	15:43	Koderma: B-N, 10.208 kA, 15.36 km	Bokaro: B-N, 2.4 KA, 92.3 Km	B-Earth	100	A/r successful. Tripped again within reclaim time.	DR length less at Koderma	Yes	No
2	220KV-BIRPARA-MALBASE-1	01-06-2024	16:07	01-06-2024	17:12	Birpara: Y-N, 2.52 kA, 40.7 km,	Malbase: Y-N, 6.33 KA, 10.37 Km	Y-Earth	100	A/r successful from Birpara. Tripped again during reclaim time in Zone-2.		No	No
3	220KV-DALTONGANJ-CHATRA-1	01-06-2024	16:27	01-06-2024	23:18	Daltonganj: R-N, 6 kA, 6 km	S/D taken by JUSNL To replace R-phase broken jumper at location no 111; S/D code: 50	R-Earth	200	At Daltonganj, R_ph current was zero before tripping. Suddenly a fault struck R_ph and DEF operated. DEF pickup settings may be reviewed. At Garhw, it seems multiple failed A/r attempted and only R_ph tripped after 3 seconds. Other two phase remained close. PD time may be checked.		Yes	No
4	400KV-KHARAGPUR-CHAIBASA-1	01-06-2024	16:44	01-06-2024	17:46	Kharagpur: Y-N, 2.93 kA	Chaibasa: Y-N, 16.74 kA, 0.1 km	Y-Earth	100	A/r successful. Tripped again within reclaim time.		No	Yes

5	220KV-CHANDIL-RANCHI-1	01-06-2024	16:58	01-06-2024	17:44	Chandil: R-Y, Ir: 2.99kA, Iy: 2.96 kA, 51.9 km	Ranchi: R-Y, Ir- 6.3 kA, Iy-6.3 kA, 39.06 km	R-Y-Earth	100	Phase to phase fault.		Yes	Yes
6	220KV-JODA-RAMCHANDRAPUR-1	01-06-2024	18:18	01-06-2024	19:00	Joda: R_N, 19.5 km	Ramchandrapur: R_N, 6.58 kA	R-Earth	100	Three phase tripping for single phase fault at Rmachandrapur.		No	Yes
7	400KV-JHARSUGUDA-STERLITE-2	01-06-2024	18:37	01-06-2024	21:32	Jharsuguda: Y-B, Iy-26 kA, Ib-26 kA	Sterlite:Y-B, Iy-8.291 kA, Ib-8.006 kA, 34.57 Km.	Y-B-Earth	100	Phase to phase fault.		Yes	No
8	400KV-JHARSUGUDA-RAIGARH-4	01-06-2024	18:48	01-06-2024	20:24	Jharsuguda: Y-N, 14.7 KA, 136 Km	Raigarh: Y-N, 3.067 KA, 9.26 Km	Y-Earth	100	Three phase tripping at both ends. A/r was in non-A/r mode to facilitate reconductoring of 400 kV Jharsuguda-Rourkela-4.		Yes	No
9	400KV-JHARSUGUDA-RAIGARH-2	01-06-2024	19:13	01-06-2024	20:36	Jharsuguda: R-N,8.064 kA,72km	Raigarh: -R-N,4.2 kA,72 km.	R-Earth	100	A/r successful. Tripped again within reclaim time.		Yes	No
10	220KV-BUDHIPADAR-KORBA-3	01-06-2024	19:36	02-06-2024	20:18	Budhipadar: R_N	Korba: Failure of R-Ph CB	R-Earth	100	A/r failed after 1 second		No	No
11	220KV-JODA-RAMCHANDRAPUR-1	01-06-2024	19:53	02-06-2024	16:58	Joda: R-N, 75.27 km, 1.6kA	Ramchandrapur: R-N, 54.6 km, 3.09 KA	R-Earth	100	Three phase tripping for single phase fault at Rmachandrapur.		No	Yes

12	400KV-LAPANGA-OPGC (IB THERMAL)-2	01-06-2024	20:57	01-06-2024	23:49	Lapanga: R_N , 1.516 Km, 21.86 kA	OPGC: A/r successful	R-Earth	100	A/r successful at OPGC. At Lapanga, no A/r attempt by main bay and other two phase tripped on PD after 3 seconds. Tie bay attempted A/r after 1.7 seconds but during this instance other two phase of tie bay tripped, later R_ph tripped on PD.		Yes	No
13	400KV-LAPANGA-OPGC (IB THERMAL)-1	01-06-2024	21:05	01-06-2024	23:14	Lapanga: B_N	OPGC: A/r successful	B-Earth	100	At 20:49 Hrs, R_ph fault struck the line, A/r was successful from Lapanga after 1.7 seconds. At 21:05 Hrs, fault struck B_ph, A/r was successful at OPGC only.		Yes	No
14	400KV-SAHARSA-DARBHANGA (DMTCL)-1	01-06-2024	22:12	01-06-2024	22:27	Saharsa: Y_N, 9.7 kA	Darbhanga: Y-N, 4.86 kA, 38.8 km	Y-Earth	100	Three phase tripping for single phase fault from Darbhanga , A/r Successful from Saharsha		Yes	No
15	765KV-JHARSUGUDA-DHARAMJAIGARH-3	02-06-2024	18:28	02-06-2024	22:58	Jharsuguda :R-N, 14 kA, 30.2 km		R-Earth	100	A/r failed after 1 second	DR of another instance uploaded.	Yes	No
16	400KV-JHARSUGUDA-RAIGARH-4	02-06-2024	19:06	03-06-2024	07:27	Jharsuguda: B-N, 10.98km, 15.3 kA		B-Earth	100	A/r failed after 1 second		Yes	No
17	400KV-IBEUL-JHARSUGUDA-1	02-06-2024	19:06	02-06-2024	23:05	IBEUL: B-N, 79 km	Jharsuguda : Didn't trip	No fault	NA	Line tripped from IBEUL endonly during fault in adjacent 400 kV Jharsuguda-Raigarh-4. Zone-3 picked up but line tripped immediately.		No	NA



18	400KV-NEW DUBURI-MEERAMUNDALI-1	02-06-2024	19:51	02-06-2024	22:44	New Dubari: Y-N, 7.48 kA, 39.3 Km	Meeramundali: Y-N, 5.03 kA, 54.3 Km.	Y-Earth	100	A/r failed after 1 second		No	Yes
19	400KV-PATNA-SAHARSA-2	03-06-2024	15:46	03-06-2024	18:53	Patna : R-B, Ib:4.04 kA, Ir:1.9 kA, 124.2 km	Saharsa: R-B, Ib:3.4 kA, Ir:3.5, 105 Km	R-B-Earth	100	Phase to phase fault.		Yes	Yes
20	400KV-NEW PURNEA-BIHARSARIFF(PG)-1	03-06-2024	15:54	11-06-2024	06:04	New Purnea: R-N, 120.1 Km, 3.926 kA		R-Earth	100	A/r failed after 1 second		Yes	Yes
21	220KV-NEW MELLI-TASHIDING-1	03-06-2024	18:18	03-06-2024	19:16	New Melli: Y-N, 3.253 kA		Y-Earth	100	Three phase tripping for single phase fault at Tashiding. DT received at New Melli and all three phase tripped.		No	No
22	220KV-DALTONGANJ-CHATRA-1	04-06-2024	12:43	04-06-2024	15:04	Daltonganj: Y-B, 57.095 Km, 2.324 kA	Chatra:Y-B, 84.37 km	Y-Earth	100	Phase to phase fault		Yes	No
23	400KV-KODERMA-BOKARO-1	04-06-2024	13:14	04-06-2024	15:19	Koderma :B-N, 16.48 kA, 20.4 Km	Bokaro: B-N, 2.29 kA, 89.2 Km	B-Earth	100	A/r successful. Tripped again within reclaim time.	DR length less at Koderma end	Yes	Yes
24	220KV-NEW MELLI-TASHIDING-1	04-06-2024	16:28	04-06-2024	18:14	New Melli: Y_N, 4.41 kA	Tashiding: Y-N, 2.214 kA, 6.9 Km	Y-Earth	100	Three phase tripping for single phase fault at Tashiding. DT received at New Melli and all three phase tripped.		No	No

25	400KV-GOKARNA-SAGARDIGHI-2	04-06-2024	20:07	04-06-2024	20:21	Gokarno: B-N, 16Km, 9.54 kA	Sagardighi: B-N	B-Earth	100	A/r successful. Tripped again within reclaim time.	No	No
26	400KV-GOKARNA-SAGARDIGHI-1	04-06-2024	20:08	04-06-2024	20:50	Gokarna : B-N, Ib:11.45 KA, 17.31 Km	Sagardighi: B-N, Ib:10.21KA, 31.37 Km	B-Earth	100	A/r failed after 1 second	No	No
27	220KV-DALTONGUNJ-GARWAH (NEW)-2	05-06-2024	01:04	05-06-2024	01:56	Daltongunj: R-N, 4.05 kA, 18.09 Km.		R-Earth	100	A/r failed after 1 second from Daltongunj end only while no A/r attempt at Garwah end and only R phase opened. PD time may be checked.	Yes	No
28	400KV-SAHARSA-DARBHANGA (DMTCL)-1	05-06-2024	15:31	05-06-2024	15:41	Saharsa: Y_N, 11.9 kA	Darbhanga: Y-N, 4.5 KA, 42 km	Y-Earth	100	A/r successful from Saharsa end only , while 3 phase tripped at Darbhanga	Yes	No
29	400KV-SAHARSA-DARBHANGA (DMTCL)-2	05-06-2024	15:37	05-06-2024	15:44	Saharsa: Y_N, 10.8 kA	Darbhanga: Y-N, 4.7 KA, 48.9 km	Y-Earth	100	A/r successful from Saharsa end only , while 3 phase tripped at Darbhanga	Yes	No
30	220KV-MAITHON(PG)-DUMKA-1	07-06-2024	11:29	07-06-2024	12:20	Maithon: Y-B, Iy- 8.48 kA, Ib- 8.06 kA, 22 Km	Dumka: Y-B, Iy: 1.845 kA, Ib: 2.287 kA, 49.66 Km	Y-B-Earth	100	Phase to phase fault.	No	Yes
31	220KV-MAITHON(PG)-DUMKA-1	07-06-2024	14:08	07-06-2024	15:03	Maithon: B_N, 4.45 KA, 24.98 Km		B-Earth	100	Three phase tripping at Dumka for single phase fault. A/r failed after 1 second from Maitohon.	No	Yes

32	765KV-JHARSUGUDA-RAIPUR PS (DURG)-1	07-06-2024	18:16	07-06-2024	23:28	Jharsuguda : R_Y, 184 Km, 6.13 KA	Raipur: R-Y, 116 Km, 9.75 kA	R-Y-Earth	100	Phase to phase fault.		Yes	No
33	220KV-MAITHON(PG)-DUMKA-1	09-06-2024	11:21	11:21	11:49	Maithon: B-N , 20.1 km, 4.2 kA	Dumka: B-N, 47.1 km	B-Earth	100	Three phase tripping at Dumka for single phase fault. A/r successful from Maithon.		No	Yes
34	220KV-SAHARSA-BEGUSARAI-1	11-06-2024	14:40	12-06-2024	16:12	Saharsa: R_N, 11.24 Km, 7.93 kA		R-Earth	100	A/r failed after 1 second from Saharsa but Y & B phase remained close at Begusarai. Pole discrepancy time at begusarai may be checked.		Yes	No
35	220KV-JODA-RAMCHANDRAPUR-1	11-06-2024	15:46	11-06-2024	16:28		Ramchandrapur: Y-N, 49.3 Km, 2.42 kA	Y-Earth	100	Three phase tripping for single phase fault at Rmachandrapur.		No	Yes
36	400KV-PPSP-BIDHANNAGAR-1	12-06-2024	18:52	12-06-2024	19:28	PPSP: B-N, 146.6km	Durgapur: B-N, FD: 24.53 Km, 8.403 KA	B-Earth	100	A/r kept disabled as per OEM advise		No	Yes
37	400KV-PPSP-BIDHANNAGAR-2	12-06-2024	19:07	12-06-2024	19:30	PPSP : Y_N, 137.9 km	Durgapur: Y_N, 29.84 km, 3.58 KA	Y-Earth	100	A/r kept disabled as per OEM advise		No	Yes

38	220KV-RANCHI-MTPS(DVC)-1	12-06-2024	19:44	12-06-2024	22:42	Ranchi: R-N, 335.8 Km, 0.45 kA	MTPS : R-N, 7.93 km, 11.55 kA	R-Earth	800	Fault seen in Zone-3 from Ranchi while A/r was kept disabled at Mejia and all three phase tripped in Zone-1. DVC/PG ER-1 may share findings.		Yes	Yes
39	220KV-JODA-RAMCHANDRAPUR-1	13-06-2024	13:45	13-06-2024	14:35		Ramchandrapur: Y_N, 47.2 Km, 2.42 kA,	Y-Earth	100	Three phase tripping for single phase fault at Rmachandrapur.		No	Yes
40	400KV-BINAGURI-RANGPO-2	13-06-2024	19:08	14-06-2024	16:52	Binaguri: Y_N, 66.80 Km, 4.503 kA	Rangpo : Y_N, 37.703 Km, 4.899 kA	Y-Earth	100	A/r failed after 1 second		No	No
41	400KV-LAPANGA-OPGC (IB THERMAL)-2	13-06-2024	19:19	13-06-2024	20:47	Lapanga: R_N, 20 kA, 1.5 Km		R-Earth	100	3 phase tripping at Lapanga for single phase fault while A/R successful at OPGC end		Yes	No
42	400KV-TENUGHAT-PVUNL-1	13-06-2024	21:29	13-06-2024	22:46	Tenughat : R_Y_B_N		R-Y-B Earth	100	Three phase fault		No	No
43	400KV-BINAGURI-TALA-1	15-06-2024	07:58	15-06-2024	08:36	Binaguri: R_N, 40.7 km, 6.7 kA		R-Earth	100	A/r successful from Binaguri. Other two phase at Tala tripped after 1.5 seconds and DT sent to remote end.		No	Yes
44	765KV-JHARSUGUDA-RAIPUR PS (DURG)-1	15-06-2024	15:06	15-06-2024	18:44	Jharsuguda: R-Y, Ir-3.698 kA, Iy-3.294 kA, 301.3 km		R-Y- Earth	100	Phase to phase fault.		No	No

45	220KV-MAITHON(PG)-DUMKA-2	15-06-2024	15:36	15-06-2024	15:54	MAithon: R_N, 8.01kA, 14.9km	Dumka: R-N, 51.4km, 1.526 kA	R-Earth	100	A/R successful from Maithon only. Three phase tripping at Dumka		No	Yes
46	400KV-BIDHANNAGAR-NEW CHANDITALA-1	15-06-2024	17:59	15-06-2024	18:38	Bidhannagar: R-N, 3.3Km, 11 kA	New Chanditala: R-N, 101.3 Km, 5 kA	R-Earth	100	A/r failed after 1 second		Yes	Yes
47	400KV-MALBASE-BINAGURI-1	17-06-2024	07:30	17-06-2024	10:49	Malbase : R_N, Ir: 3.234 kA	Binaguri : R-N, 3.681 Km, 26.19 kA	R-Earth	800	Tripped in Zone-3 from Binaguri.		No	Yes
48	400KV-RANCHI-NEW RANCHI-1	17-06-2024	17:07	17-06-2024	18:00	Ranchi: B-N, 27.33 km, 9.88 kA.		B-Earth	100	A/r successful. Tripped again within reclaim time.		Yes	Yes
49	220KV-MAITHON-DHANBAD-1	18-06-2024	19:57	18-06-2024	20:34	Maithon: B-N, 3.78 kA		B-Earth	100	A/r successful at Dhanbad. Three phase tripping at Maithon.		No	No
50	220KV-BUDHIPADAR-RAIGARH-1	18-06-2024	20:19	18-06-2024	22:59	Budhipada: R_N, IR=2.65 kA, 63.4 km	Raigarh: R-N, 11kA, 11km	R-Earth	400	Tripped in Zone-2 from Budhipadar		No	No
51	220KV-RANCHI-MTPS(DVC)-1	18-06-2024	22:57	18-06-2024	23:36	Ranchi: R-N, 169.3 km, 1.05 kA, A/r successful	Mejia: R_N, 70.81 Km, 2412.11 A	R-Earth	100	A/r kept disabled at Mejia		Yes	No

52	400KV-MALBASE-BINAGURI-1	19-06-2024	02:26	19-06-2024	03:47		Binaguri: Y_N, 2.96 kA	Y-Earth	300	A/r successful from Binaguri only.		No	No
53	400KV-KHSTPP-BARH-2	19-06-2024	19:29	19-06-2024	22:06	Khstpp: R-N	Barh:R_N, 11.61 km, 24 kA, A/r successful	R-Earth	100	A/r successful from Barh only.	Only cfg file uploaded by Barh	No	No
54	400KV-PPSP-BIDHANNAGAR-1	19-06-2024	19:55	19-06-2024	20:21	PPSP :R-N, 54Km	Bidhanagar : R-N, 125 Km , 2.7 KA	R-Earth	100	A/r kept disabled as per OEM advise		No	Yes
55	220KV-NEW PURNEA-MADHEPURA-2	20-06-2024	05:34			New Purnea: B_N, 2.673 kA, 66.548 km	Madhepura : Y_B_N, R: 0.52 kA, Y: 4.07 kA, B: 1.55 kA, 70.3 km.	B-Earth	100	Phase to phase fault during A/r attempt	DR length less at New Purnea	Yes	No
56	220KV-RANCHI-HATIA-3	20-06-2024	10:32	20-06-2024	16:23	Ranchi: R_N, 2.437 km , 19.309 kA		R-Earth	100	Three phase tripping at Ranchi. It seems A/r was successful at Hatia. Another fault struck this line after around 1 minute in B_ph. A/r attempt failed after 1 second from Hatia.		Yes	Yes
57	220KV-BARIPADA-BALASORE-2	20-06-2024	13:13	20-06-2024	13:32	Baripada : B_N, 76 Km, 2.66 kA		B-Earth	100	A/r successful at Balasore. Three phase tripping at Baripada.		Yes	No
58	220KV-BUDHIPADAR-RAIGARH-1	20-06-2024	17:08	20-06-2024	21:34	Budhipadar: R-N, 23.89 KA, 1.273 km	Raigarh: R-N, 75.85 Km, 2.4 KA	R-Earth	500	Tripped in Zone-2 from Korba. No A/r attempt at Budhipadar.		No	No

59	220KV-BUDHIPADAR-KORBA-1	20-06-2024	17:36	20-06-2024	20:46	Budhipadar: 166.57 Km, Ia= 1.03 KA		R-Earth	400	Tripped in Zone-2 from Korba. A/r successful from Budhipadar.		No	No
60	220KV-DARBHANGA (DMTCL)-MOTIPUR-2	20-06-2024	18:17	22-06-2024	15:35	DMTCL : Y_N, 8.9 kA, 24 Km	Motipur : Y_N, 2.25 kA, 11 Km	Y-Earth	100	Tripped on SOTF while charging after shutdown. DMTCL/BSPTCL may share details		No	No
61	400KV-MEERAMUNDALI-JSPL-1	20-06-2024	19:47	20-06-2024	20:51	Meramundali : R_N, 21.2 kA		R-Earth	100	A/r successful at Meramundali. Tripped again after 280 msec on DEF. DEF settings may be reviewed at Meramundali. A/r successful at JSPL		Yes	No
62	220KV-JODA-RAMCHANDRAPUR-1	20-06-2024	22:27	20-06-2024	23:01	Joda : B-N, 33.92 km, 2.79 kA, A/r successful	Ramchandrapur: B-N, 86.4 km	B-Earth	100	Three phase tripping for single phase fault at Ramchandrapur	DR length less at Ramchandrapur	No	Yes
63	220KV-JODA-RAMCHANDRAPUR-1	20-06-2024	23:03	21-06-2024	00:08	Joda : B-N, 4.192 kA, A/r successful	Ramchandrapur: B-N, 104.7 Km	B-Earth	100	Three phase tripping for single phase fault at Ramchandrapur	DR length less at Ramchandrapur	No	Yes
64	220KV-RANCHI-HATIA-2	21-06-2024	12:52	21-06-2024	13:31	Y-N ,21.03 Km , 6.07 KA		Y-Earth	100	Three phase tripping for single phase fault from both ends	DR length less at Hatia	Yes	Yes
65	400KV-PATNA-SAHARSA-1	22-06-2024	15:07	22-06-2024	16:05	Patna: R_N, 31.1 Km,10.41KA	Saharsa: R_N, 211.22 Km, 2.003 KA	R-Earth	100	A/r failed after 1 second		Yes	Yes

66	220KV-BUDHIPADAR-KORBA-2	23-06-2024	16:34	23-06-2024	19:12	Budhipadar: Y-B, 96.3km, 2.68kA		Y-B	100	Phase to phase fault.		Yes	No
67	400KV-ALIPURDUAR (PG)-JIGMELLING-1	25-06-2024	02:23	25-06-2024	03:06	Alipurduar: R_B, 145 Km, Ir-3.5kA, Ib- 3.5kA	Jigmelling: R_B, Ir: 5.06 kA, Ib: 6.83 kA	R-B	100	Phase to phase fault. Three phase A/r successful at Jigmelling.		No	No
68	220KV-BIRPARA-MALBASE-1	25-06-2024	02:29	25-06-2024	03:02	Birpara: R_N, 8.87 kA	Malbase: R_N, 3.128 kA, 43.6km	R-Earth	100	A/r successful from Birpara. Three phase tripping at Malbase.		Yes	Yes
69	220KV-BINAGURI-NJP-2	25-06-2024	03:50	25-06-2024	05:07	Binaguri: Inter trip received from NJP	NJP: Didn't trip	No fault	NA	Inter trip command received from NJP to Binaguri.		No	NA
70	220KV-BINAGURI-NJP-1	25-06-2024	03:53	25-06-2024	05:08	Binaguri: Inter trip received from NJP	NJP: Didn't trip	No fault	NA	Inter trip command received from NJP to Binaguri.		No	NA
71	220KV-BINAGURI-BIRPARA-1	25-06-2024	04:14	25-06-2024	06:36	Binaguri: Y_B, 4.90 KA, 47.418 Km	Birpara: Y_B, 5.96 KA, 31.2 Km	Y-B- Earth	100	Phase to phase fault.		Yes	Yes
72	220KV-BINAGURI-BIRPARA-2	25-06-2024	04:51	25-06-2024	05:26	BINAGURI: R_B, 7.23 KA,36 Km	Birpara: R_B, Ir: 3.17 kA, Ib: 4.55 kA	R-B- Earth	100	Phase to phase fault.		Yes	Yes



73	220KV-ALIPURDUAR (PG)-BIRPARA-1	25-06-2024	06:11	25-06-2024	06:58	Alipurduar: R_B, Ir: 7.69 kA, Ib: 5.05 kA	Birpara: R-B-N, R-3.058 kA, B-2.099 KA, 44.85 km	R-B Earth	100	Phase to phase fault.		Yes	Yes
74	400KV-BARH-MOTIHARI-1	25-06-2024	12:16	25-06-2024	12:47	Barh: B-N, 39.9 km, 6.95 kA	Motihari: B_N, 1.84 kA, 171.7 km	B-Earth	100	A/r successful. Tripped again within reclaim time.		Yes	Yes
75	400KV-MAITHON-GAYA-1	25-06-2024	21:36	25-06-2024	22:04	Maithon : Y_N, 20.556 Km, 6.948 kA	Gaya: Y_N, 257.57 Km, 1.96 kA	Y-Earth	100	A/r successful from Gaya however, a Maithon, other two phase tripped after 1 second. PG ER-2 may explain.		Yes	Yes
76	220KV-NEW TOWN(AA-III)-RAJARHAT-2	26-06-2024	01:12	26-06-2024	21:09	New Town: R_Y, 6.4 Km, Ir-3.5 kA, Iy-3.5 kA	Rajarhat: R_Y, Ir=Iy=13.9 kA	R-Y	100	Phase to phase fault.		Yes	Yes
77	220KV-MUZAFFARPUR(PG)-GORAUL(BH)-2	26-06-2024	08:15	26-06-2024	09:18	Muzaffarpur: B_N, 3.88 kA	Goraul: Didn't trip	B-Earth	800	Tripped in Zone 3 from Muzaffarpur End		Yes	No
78	400KV-MOTIHARI-BARH-2	26-06-2024	10:13	26-06-2024	10:22	Motihari: DT received	Barh: Didn't trip	No fault	NA	DT received at Motihari. No fault in line. NTPC Barh may explain.		Yes	No
79	400KV-ARAMBAGH-NEW CHANDITALA-1	26-06-2024	16:18	26-06-2024	16:37	Arambagh: DT received		No fault	NA	No fault in line. WBSETCL may explain.		No	No

80	220KV-PUSAULI(PG)-DURGAUTI-1	27-06-2024	11:29	27-06-2024	19:11	Pusauli : R-N, 6.838 Km, 11.43 kA		R-Earth	100	Three phase tripping for single phase fault		Yes	No
81	400KV-KHSTPP-BARH-1	27-06-2024	17:09	27-06-2024	17:30	KhSTPP: Didn't trip	Barh: DT received	No fault	NA	DT received at Barh. No fault in line. NTPC may explain.		No	Yes
82	400KV-KHSTPP-BARH-1	27-06-2024	21:28	27-06-2024	21:55	KhSTPP: Didn't trip	Barh: DT received	No fault	NA	DT received at Barh. No fault in line. NTPC may explain. ( tie bay is already showing open at Barh)		No	Yes
83	400KV-NEW DUBURI-MEERAMUNDALI-2	28-06-2024	07:16	28-06-2024	12:59		Meramundali: DT received	No fault	NA	DT received at Meramundali . No fault in line. OPTCL may explain.		No	Yes
84	220KV-CHUKHA-BIRPARA-2	28-06-2024	07:17	28-06-2024	08:15		Birpara: Didn't trip	No fault	NA	Line tripped from Bhutan only.		No	NA
85	220KV-CHUKHA-BIRPARA-1	28-06-2024	07:17	28-06-2024	08:18	Chukha: Y_B, 15.35 km	Birpara: Y_B, Iy=Ib=3.3 kA	Y-B- Earth	100	Phase to phase fault.		No	Yes
86	400KV-KHSTPP-BARH-1	28-06-2024	10:08	28-06-2024	10:12		Barh: DT received	No fault	NA	DT received at Barh. No fault in line. NTPC may explain. ( tie bay is already showing open )		No	Yes

87	400KV-KHSTPP-BARH-1	28-06-2024	12:31	28-06-2024	13:02		Barh: DT received	No fault	NA	DT received at Barh. No fault in line. NTPC may explain. ( tie bay is already showing open )		No	Yes
88	220KV-BINAGURI-NJP-2	28-06-2024	12:37	28-06-2024	13:00	Binaguri: Inter trip received from NJP		No fault	NA	DT received at Binaguri . No tripping from NJP end		No	No
89	220KV-BINAGURI-NJP-1	28-06-2024	12:37	28-06-2024	12:59	Binaguri: Inter trip received from NJP		No fault	NA	DT received at Binaguri . No tripping from NJP end		No	No
90	400KV-NEW DUBURI-MEERAMUNDALI-2	29-06-2024	03:07	29-06-2024	08:14		Meramundali: DT received	No fault	NA	DT received at Meeramundali end. No fault in line.		No	No
91	400KV-NEW DUBURI-MEERAMUNDALI-2	29-06-2024	08:25	29-06-2024	10:38		Meramundali: DT received	No fault	NA	DT received at Meramundali . No fault in line. OPTCL may explain.		No	Yes
92	400KV-JEERAT-NEW JEERAT-1	29-06-2024	12:26	29-06-2024	18:48	Jeerat: R_N, 4.5 Km, 21.5 kA	New Jeerat : R-N , 6.187 kA, 20.40 Km	R-Earth	100	A/r failed after 1 second		No	Yes
93	400KV-JHARSUGUDA-RAIGARH-3	29-06-2024	14:53	30-06-2024	01:49	Jharsudha: R-N, 1.285 Km, 29.317 kA		R-Earth	100	A/r failed after 1 second		No	No

94	400KV-MEDINIPUR-NEW CHANDITALA-1	29-06-2024	16:44	30-06-2024	01:51	Mednipur: R_N, 5.583 kA, 80.67km		R-Earth	100	A/r failed after 1 second		YES	No
95	220KV-MAITHON-DHANBAD-2	30-06-2024	19:05	30-06-2024	19:35	Dhanbad: R-N, 36.6km, 3.19kA		R-Earth	100	Three phase tripping for single phase fault as per PMU		No	No