



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

75
Azadi Ka
Amrit Mahotsav



Eastern Regional Power Committee

14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033

Tel. No.:033-24239651,24239659 FAX No.:033-24239652, 24239653 Web:www.erpc.gov.in

सं./NO. पू.क्षे.वि.स./PROTECTION/2023/205

दिनांक /DATE: 08.05.2023

सेवा में / To,

संलग्न सूची के अनुसार/ As per list enclosed.

विषय : पू.क्षे.वि.स. की 126वीं संरक्षण समन्वय उप-समिति (पीसीसी) की बैठक हेतु सूचना।

Sub: Notice for 126th Protection Coordination sub-Committee (PCC) meeting of ERPC.

Sir/Madam,

यह सूचित किया जाता है कि पू.क्षे.वि.स की 126वीं पीसीसी बैठक 17 मई 2023 (बुधवार) को 10:30 बजे से ऑनलाइन माइक्रोसॉफ्ट टीम मीटिंग प्लेटफॉर्म के माध्यम से आयोजित की जाएगी। मीटिंग लिंक ई-मेल या संदेश के माध्यम से अग्रेषित किया जाएगा।
Notice is hereby given that 126th PCC meeting of ERPC will be held on 17th May 2023 (Wednesday) from 10:30 hrs through online Microsoft Teams meeting platform. 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 125th Protection sub-Committee Meeting of ERPC.
- 2) Analysis of following grid disturbances of April 2023:
 - Tripping of all running units of 400 kV Rangpo-Dikchu S/s on 17.04.2023 at 21:33 Hrs. & 22:53 Hrs. and on 18.04.2023 at 03:27 Hrs.
 - Tripping of both units at Tenughat due to burst of B_ph CT of 220 kV Tenughat-Govindpur-2 at Tenughat on 18.04.2023 at 13:19 Hrs.
 - Complete power failure at Chandil S/s due to burst of 220 kV Bus PT on 27.04.2023 at 07:12 Hrs.
- 3) Follow up of decision of previous Protection Coordination sub-Committee Meetings.
- 4) Single line tripping incidences of transmission elements for April 2023 as enclosed 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 डाटा बेस प्रबंधन प्रणाली में लागू ट्रिपिंग घटना सूचना प्रणाली का विवरण ऑन-लाइन में अपलोड करें 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).

बैठक में आपकी उपस्थिति महत्वपूर्ण है।

Your participation in the meeting is highly solicited.

भवदीय / Yours faithfully,

(पी.पी.जेना / P.P.Jena)

Executive Engineer (PS)

कार्यपालक अभियंता (पी.एस.)

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, Email: mserpc-power@nic.in

LIST OF ADDRESSES:

Chief Engineer, Trans (O&M) Bihar State Power Transmission Limited, VidyutBhawan, Bailey Road, Patna-800021	Electrical Supeerintending Engineer (CRITL) Bihar State Power Transmission Limited, VidyutBhawan, 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 UrjaSancharan Nigam Limited Kusai Colony, Doranda, Ranchi-834002	Electrical Superintending 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 Corpn. Bldg. Vanivihar Chowk, 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, Andul Road, Howrah-711109	Addl. Chief Engineer (ALDC) West Bengal Electricity Distribution Company Ltd VidyutBhavan, 7 th 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, LA 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 rd 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., Loknaya Jaiprakash Bhawan, (2 nd Floor), DakBunglow Chawk, 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, Tenughat Vidyut 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	The Head Maithon Power Limited, Maithon Office, MA 5 Gogna, Dist. Dhanbad, Jharkhand State, PIN-828207
General Manager (AM), ER-II Power Grid Corporation of India Ltd., J-I-15, Block-EP, Sector-V, Salt Lake, Kolkata-91	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 (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 Corpn. 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, Angul, Odisha (FAX:011- 26139256-65)
Shri D. P. Bhagava, Chief Consultant (O&M), TeestaUrja Limited, New Delhi (FAX:011- 46529744)	Director (GM Division), Central Electricity Authority Sewa Bhawan, R. K. Puram, New Delhi-110066
Director (NPC), CEA, NRPC Building, Katwaria Sarai, 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
President , TPTL, Bhikaji Cama Place, New Delhi , 110066	

List of important transmission lines in ER which tripped in April-2023

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 ALIPURDUAR (PG)-BINAGURI-4	01-04-2023	05:04	01-04-2023	18:16	Alipurduar: B_N, 43 km, 0.19 kA	Binaguri: B_N, 90.63 km, 4.55 kA	B-Earth	100	A/r successful. Tripped again within reclaim time	No	Yes	

2	400 KV BINAGURI-MALBASE-1	01-04-2023	05:24	01-04-2023	06:22	Binaguri: Y_N, 43.52 km, 5.672 kA		Y-Earth	1200	Line tripped from Binaguri after 100 msec and A/r attempt taken after 1 sec which was unsuccessful. However, fault was not cleared from Malbase till 1.2 seconds.		Yes	NA
3	400KV BIHARSARIFF(PG)-PUSAULI-1	01-04-2023	15:43	01-04-2023	16:52	Biharshariff: R_N, Zone-1, 48.5 km, 6.07 kA	Pusauli: R_N , 150.5 km, 2.5 kA	R-Earth	100	Three phase tripping for single phase fault. A/r kept in non-auto mode for OPGW installation work		Yes	Yes
4	400KV NEW RANCHI-CHANDWA-2	01-04-2023	15:52	02-04-2023	03:17	New Ranchi: R_N, Zone-1, 44.4 km, 9.1kA	Chandwa: R_N, Zone-1, 15.2 km, 8.2 kA	R-Earth	100	A/r failed after 1 second		Yes	Yes
5	220KV MAITHON-DHANBAD-1	01-04-2023	19:28	01-04-2023	19:42	Maithon: R_N, Zone-2, 175 km, 1.2 kA	Dhanbad: A/r Successful	R-Earth	350	Tripped in Zone-2 time from Maithon. A/r successful at Dhanbad		Yes	Yes
6	400KV RANCHI-ROURKELA-1	02-04-2023	07:11	03-04-2023	03:16	Ranchi: Y_N, 13.5 km, 12.33 kA	Rourkela: Y_N, 103.8 km, 2.4 kA	Y-Earth	100	Three phase fault during A/r attempt		Yes	No
7	400KV MEERAMUNDALI-MENDHASAL-II	02-04-2023	12:50	02-04-2023	18:59	Meramundali: R_N, Zone-1, 60.3 km, 3.88 kA	Mendhasal: R_N, Zone-1, 32.9 km, 5.78 kA	R-Earth	100	A/r failed after 1 second at Meramundali. Three phase tripping at Mendhasal		Yes	Yes

8	220KV JODA-RAMCHANDRAPUR-1	02-04-2023	14:32	02-04-2023	15:23	Joda: R_N, 78.35 km, 1.4 kA	Ramchandrapur: R_N, 59.9 km, 1.69 kA	R-Earth	800	Resistive earth fault. Tripped after 800 msec from Ramchandrapur. Three phase tripping for single phase fault from both ends. Back-up O/c also operated at Ramchandrapur. Time co-ordination may be done for O/c		Yes	Yes
9	400KV BINAGURI-TALA-1	02-04-2023	22:43	02-04-2023	23:11	Binaguri : R_N, 3.33 kA, A/r Successful	Tala: R_N, 18.2 km	R-Earth	100	A/r successful from Binaguri. Three phase tripping at Tala.		Yes	NA
10	400KV MEERAMUNDALI-MENDHASAL-II	03-04-2023	10:11	03-04-2023	19:43	Meramundali: R_N, Zone-1, 55.15 km, 4.52 kA	Mendhasal: R_N, Zone-1, 33.2 km, 5.33 kA	R-Earth	100	A/r failed after 1 second at Meramundali. Three phase tripping at Mendhasal		Yes	Yes
11	220KV KHAGARIA-NEW PURNEA-2	03-04-2023	11:23	03-04-2023	12:16	Khagaria: Y_B, Zone-1, 45.77 km, Ir= 46.12 A, Iy= 3.869 kA, Ib= 37.85 kA	Purnea: Y_B, Zone-1, 21.58 km, 4.05 kA	Y-B	100	Phase-to-phase fault.	DR length less at both ends	Yes	Yes
12	400KV BARIPADA-KHARAGPUR-1	03-04-2023	11:56	03-04-2023	12:32	Baripada: Y_N, 100.3 km, 0.874 kA	Kharagpur: Y_N, Zone-1, 21.58 km, 4.05 kA	Y-Earth	100	A/r successful. Line tripped again within reclaim time		Yes	Yes

13	400KV MEERAMUNDALI-MENDHASAL-II	04-04-2023	10:00	04-04-2023	18:26	Meramundali: R_N, Zone-1, 3.76 kA,	Mendhasal:R_N, Zone-1, 4.78 kA	R-Earth	100	A/r successful from Mendhasal. Three phase tripping at Meramundali.		Yes	Yes
14	220KV SAHARSA-BEGUSARAI-2	05-04-2023	13:15	05-04-2023	16:13		Begusarai: Master trip	No fault	NA	Master trip operated. BSPTCL may explain.		NA	NA
15	220KV SAHARSA-BEGUSARAI-1	05-04-2023	13:15	05-04-2023	16:14		Begusarai: Master trip	No fault	NA	Master trip operated at Begusarai and tripped from Begusarai only. Later at 13:43 Hrs, line tripped from Saharsa due to R_N fault.		Yes	NA
16	220KV CHANDIL-STPS(WBPDCL)-1	05-04-2023	20:40	05-04-2023	21:15	Chandil:Y_N, Zone-1, 15.3 km, 5.76 kA	Santaldih: Y_N, Zone-2, 87 km, 1.9 kA	Y-Earth	350	Tripped in Zone-2 from Santaldih. A/r successful at Chandil		No	Yes
17	400KV BARIPADA-KHARAGPUR-1	06-04-2023	11:22	06-04-2023	11:53	Baripada: Y_N, 100 km,0.87 kA	Kharagpur:Y_N, Zone-1, 15 km, 82 kA	Y-Earth	100	A/r failed after 1 second		Yes	Yes
18	400KV RAJARHAT-FSTPP-1	06-04-2023	11:59	06-04-2023	12:47	Rajarhat: R_N, 22.5 km, 4.42 kA	FSTPP: R_N, Zone-1, 312 km, 1.7 kA	R-Earth	100	Other two phase at Farakka tripped after 1.2 seconds. NTPC may explain.		No	Yes

19	220KV TSTPP-MEERAMUNDALI-1	06-04-2023	14:56	06-04-2023	17:41	Talcher: B_N, Zone-1, 27.1 km, 4.6 kA	Meramundali: B_N, Zone-1, 11.42 km, 7.57 kA	B-Earth	100	A/r successful from both ends. Line tripped again within reclaim time	No	Yes
20	220KV TSTPP-MEERAMUNDALI-2	06-04-2023	14:56	06-04-2023	17:42	Talcher: R_N, Zone-1, 28.8 km, 4.27 kA	Meramundali:R_N, Zone-1, 7.08 km, 12.84 kA	R-Earth	100	A/r successful from Meramundali. However, no A/r attempted from TSTPP and other two phase tripped on PD 2 seconds. Later, line tripped from Meramundali also	No	Yes
21	220KV JAMSHEDPUR-JINDAL-1	08-04-2023	14:21	08-04-2023	15:18	Jamshedpur: B_N, Zone-1, 97.9 km, 1.333 kA	Jindal:B_N, Zone-1, 46.8 km, 2.19 kA	B-Earth	100	Three phase tripping for single phase fault.	Yes	No
22	400KV BARIPADA-KHARAGPUR-1	09-04-2023	12:24	09-04-2023	20:44	Baripada: Y_E, Zone-1, 59.73 km, 4.352 kA	Kharaghpur: Y_E, Zone-1, 40 km, 5.91 kA	Y-Earth	100	A/r successful. Tripped again within reclaim time	Yes	Yes
23	220KV DALTONGANJ-CHATRA-1	10-04-2023	12:34	10-04-2023	13:36	Daltonganj: B_N, Zone-1, 71.84 km, 1.7 kA		B-Earth	100	Line tripped twice due to B_N fault and A/r was successful in both instances. Later tripped on O/c E/f from Daltonganj	Yes	No

24	220KV JODA-RAMCHANDRAPUR-1	10-04-2023	13:13	10-04-2023	15:13	Joda: R_N, Zone-1, 75.39 km, 1.361 kA		R-Earth	100	A/r failed after 1 second at Joda. Three phase tripping initiated at Ramchandrapur, however, other two phase didn't trip and later LBB operated.		Yes	Yes
25	400KV MERAMUNDALI-LAPANGA-2	10-04-2023	13:36	10-04-2023	16:53	Meramundali:Y_N, 26.2 km, 7.9 kA	Lapanga:Y_N, 151 km, 2.5 kA	Y-Earth	100	A/r failed after 1 second		Yes	Yes
26	220KV DALTONGANJ-CHATRA-1	10-04-2023	14:06	10-04-2023	16:20	Chatra:B_N, 77.29 km, 1.667 kA		B-Earth	100	Line tripped twice due to B_N fault and A/r was successful in both instances. Later tripped on O/c E/f from Daltonganj		Yes	No
27	220KV JODA-RAMCHANDRAPUR-1	11-04-2023	11:55	11-04-2023	13:03	Joda: Y_B, 26.747 km, Iy:2.63 kA, Ib: 3.51 kA	Ramchandrapur:Y_B, Zone-1, 94.07 km Iy:2.668 kA, Ib: 2.4 kA	Y-B-Earth	100	Phase to phase fault		Yes	Yes
28	220KV DALTONGANJ-CHATRA-1	11-04-2023	12:07	11-04-2023	19:56	Daltongunj: B_N, 73.37 km, 0.715 kA	Chatra: Zone-1, 0.552 kA	B-Earth	100	A/r failed after 1 second		Yes	No
29	400KV KODERMA-BIHARSARIFF(PG)-2	11-04-2023	13:16	11-04-2023	15:17	Koderma: Y_N, Zone-1, 4.18 kA	Biharshariff:Y_N, 49.3 km, 5.4 kA	Y-Earth	100	A/r successful. Tripped again within reclaim time.	DR length less at Koderma	Yes	Yes

30	220KV-JODA-RAMCHANDRAPUR-1	12-04-2023	10:08	12-04-2023	10:56	Joda: R_N,3.15 km, 0.98 kA	Ramchandrapur: R_N,Zone-2, 126.5 km, Ia=1.63 kA	R-Earth	400	A/r successful from Joda. Three phase tripping at Ramchandrapur (Zone-2)		Yes	Yes
31	220KV JODA-RAMCHANDRAPUR-1	12-04-2023	11:10	12-04-2023	18:08	Joda: R_N, 74.4 km, 0.9 kA	Ramchandrapur: R_N, B_N, Y_N, 54.6 km, Ia=1.82 kA, Ib= 0.36 kA, ic= 0.41 kA	R-Earth	100	A/r successful at Joda. Three phase tripping initiated at Ramchandrapur, however, other two phase didn't trip and later LBB operated.		Yes	Yes
32	400KV TSTPP-ROURKELA-1	12-04-2023	13:52	12-04-2023	15:39	Talcher: B_N, Zone-1, 81 km, 4.4 kA	Rourkela:B_N, 78.6 km, 4.5 kA	B-Earth	100	A/r failed after 1 second		No	Yes
33	400KV TSTPP-ROURKELA-2	12-04-2023	14:10	12-04-2023	15:30	TSTPP: R_N, Zone-1, 89.93 km, 3.44 kA	Rourkela:R_N, Zone-1, 74 km, 4.5kA	R-Earth	100	A/r successful. Tripped again within reclaim time.		No	Yes
34	400KV PUSAULI(PG)-DALTONGANJ-1	12-04-2023	15:12	12-04-2023	16:00	Pusauli: R_N, 114 km, 2.4 kA	Daltongunj: R_N, 67 km, 1.3 kA	R-Earth	1000	Resistive fault. DEF operated at Daltonganj and DT sent to remote end. DEF settings may be reviewed.		Yes	Yes
35	765KV NEW RANCHI-DHARAMJAIGARH-1	13-04-2023	02:21	13-04-2023	12:06	New Ranchi: R_N, Zone-1, 63 km, 6.011 kA	Dharamjaigarh: R_N,Zone-2, 258.16 km, 3.66 kA	R-Earth	100	A/r failed after 1 second		Yes	NA

36	220KV JODA-RAMCHANDRAPUR-1	13-04-2023	09:38	13-04-2023	10:45	Joda: R_N, Zone-1, 1.74 km, 0.8kA	Ramchandarpur: R_N, Zone-1, 1.87 kA	R-Earth	100	A/r successful at Joda. Three phase tripping initiated at Ramchandrapur, however, other two phase didn't trip and later LBB operated.		Yes	Yes
37	220KV DARBHANGA(DMTCL)-LAUKAHI-1	13-04-2023	11:03	13-04-2023	12:31	Dharbhanga: R_N, Zone-2, 73 km, 2.2 kA	Laukahi: R_N, 4.87 kA	R-Earth	100	A/r attempt successful from DMTCL after 650 msec. Three phase tripping at Laukahi.		No	Yes
38	220KV JODA-RAMCHANDRAPUR-1	13-04-2023	13:00	13-04-2023	15:37	Joda: Y_N, Zone-2, 11.5 km, 1.147 kA	Ramchandarpur: Y_N, Zone-1, 14.3 km, 6.06 kA	Y-Earth	350	Tripped in Zone-2 from Joda. Three phase tripping at Ramchandrapur for single phase fault.		Yes	Yes
39	220KV TENUGHAT-BIHARSARIFF-1	14-04-2023	11:28	14-04-2023	18:59	Tenughat: Y_N, 51.4 km, 1.28 kA	Biharshariff: Y_N, 1.2 kA	Y-Earth	100	Three phase tripping for single phase fault		Yes	No
40	400KV DURGAPUR-JAMSHEDPUR-1	14-04-2023	16:02	14-04-2023	16:49	Durgapur: Y_N, Zone-1, 48 km, 4.76 kA	Jamshedpur: Y_N, Zone-1, 106.42 km, 3.0826 kA	Y-Earth	100	A/r failed after 1 second		No	Yes
41	400KV KHSTPP-BARH-2	15-04-2023	08:21	15-04-2023	09:49	KHSTPP: Y_B, Zone-2, Iy-6.66 kA, Ib- 6.66 kA		Y-B-Earth	100	Phase to phase fault		No	No

42	220KV SAHARSA-BEGUSARAI-2	15-04-2023	10:12	18-04-2023	18:47		Begusarai: Master trip	No fault	NA	Master trip operated. BSPTCL may explain.		NA	NA
43	220KV SAHARSA-BEGUSARAI-1	15-04-2023	10:12	18-04-2023	18:44		Begusarai: Master trip	No fault	NA	Master trip operated. BSPTCL may explain.		NA	NA
44	400KV BIHARSARIFF(PG)-BALIA-2	15-04-2023	11:55	15-04-2023	13:31	Biharshariff: R_N, 161.62 km, 3 kA		R-Earth	100	A/r failed after 1 second		Yes	NA
45	220KV DEHRI-GAYA-2	15-04-2023	12:03	15-04-2023	16:38	Dehri: B_N, 21.96 km, 2.92 kA	Gaya: B_N, 75.3 km, 1.95 kA	B-Earth	100	A/r failed after 1 second		Yes	Yes
46	400KV JEERAT-NEW CHANDITALA-1	16-04-2023	12:32	16-04-2023	12:50	Jeerat: B_N, Zone-2, 74 km, 4.75 kA	New chanditala: B_N, Zone-1, 8.98 km, 14.54 kA	B-Earth	100	A/r failed after 1 second		Yes	No
47	400KV BINAGURI-TALA-1	16-04-2023	15:15	16-04-2023	15:55	Binaguri: DT received	Tala: Didn't trip	No fault	NA	DT received at Binaguri		No	NA

48	220KV DALKHOLA (PG)-GAZOLE-1	17-04-2023	09:25	17-04-2023	14:02	Dalkhola: Didn't trip	Gazole: B_N, Zone-1, VT fuse fail	No fault	NA	Tripped from Gazole only. VT fuse failed and distance protection operated. WBSETCL may explain.		NA	No
49	220KV DALTONGANJ-CHATRA-1	17-04-2023	09:42	17-04-2023	10:49		Chatra: B_N, Zone-1, 139.68 km, 0.6 kA	B-Earth	100	A/r attempt couldn't be ascertained from PMU		No	No
50	220KV JODA-RAMCHANDRAPUR-1	17-04-2023	11:15	17-04-2023	12:10	Joda:R_E, 75.03 km, 1.320 kA	Ramchandarpur: R_N, 57 km, 2.33 kA	R-Earth	100	A/r successful from Joda only. Tripped again within reclaim time		No	No
51	400KV DURGAPUR-KHSTPP-1	17-04-2023	12:20	17-04-2023	13:13	Durgapur: Y_N, 190.5 km, 2.1 kA	Kahalgaon: Y_N, 29.5 km, 5.1 kA	Y-Earth	100	A/r failed after 1 second		No	No
52	220KV DALTONGANJ-CHATRA-1	18-04-2023	09:40	18-04-2023	19:35	Daltonganj:B_N, 147 km, 1.251 kA	Chatra: Zone-1, 34.89 km, Ia= 0.1692 kA, Ib= 0.222 kA, Ic= 0.954 kA	B-Earth	100	A/r failed after 1 second		No	No
53	220KV JODA-RAMCHANDRAPUR-1	18-04-2023	11:35	18-04-2023	13:03	Joda: Y_E, 17.27 km, 3.027 kA	Ramchandarpur:Y_N, Zone-1, 111.2 km	Y-Earth	100	A/r failed after 1 second from Joda.	DR length less at Ramchandrapur	Yes	Yes

54	220KV CHANDIL-STPS(WBPDCL)-1	18-04-2023	11:43	18-04-2023	18:53		STPS: R_E, Zone-1, 69.1 km	R-Earth	100	At 11:43 Hrs, R_N fault occurred and Ar/ was successful from Chandil only, other two phase at Santaldih tripped on PD. Later at 11:46 Hrs, phase to phase fault occurred and line tripped from Chandil also.	Yes	Yes
55	220KV PATNA-FATUHA-1	18-04-2023	11:47	18-04-2023	18:07	Patna: B_E, 12.22 km, 9.015 kA	Fatuha: B_E, Zone-1, 5.967 kA	B-Earth	100	Three phase tripping for single phase fault however, B_ph at Fatuaha didn't trip. Whether LBB operated. A/r attempt also taken by Fatuaha after 1 second however, Y_ph breaker didn't close. BSPTCL may explain.	Yes	Yes
56	220KV MAITHON-DUMKA-1	19-04-2023	09:34	19-04-2023	10:17	Maithon:B_N, 60.57 km, 1.54 kA	Dumka: B_N, 24.47 km	B-Earth	100	A/r failed after 1 second	No	No

57	220KV JODA-RAMCHANDRAPUR-1	19-04-2023	13:07	21-04-2023	18:07	Joda:R_N, Zone-1, 75.7 km, 1.37 kA	Ramchandrapur: Zone-1, Zone-2, 1.77 kA	R-Earth	100	A/r failed at Joda after 1 second. Three phase tripping initiated at Ramchandrapur, however, other two phase didn't trip and later LBB operated.		Yes	Yes
58	400KV BINAGURI-TALA-1	19-04-2023	20:29	19-04-2023	21:12	Binaguri : DT received		No fault	NA	Details may be shared by PG ER-2		No	NA
59	400KV BINAGURI-TALA-1	19-04-2023	21:35	19-04-2023	22:40	Binaguri: B_N, 126 km, 2 kA	Tala: B_N, 60.8 km	B-Earth	2300	Resistive fault.		No	NA
60	400KV ROURKELA-JHARSUGUDA-4	20-04-2023	01:49	20-04-2023	04:37	Rourkela: Y_N, Zone-1, 22.95 km 11.12 kA	Jharsuguda: Y_N, Zone-1, 87.2 km , 4.94 kA	Y-Earth	100	A/r successful. Tripped again within reclaim time.		No	No
61	400KV JHARSUGUDA-ROURKELA-2	20-04-2023	01:49	20-04-2023	04:30	Jharsuguda: B_N, Zone-1, 3.6 kA	Rourkela: B_N, Zone-1, 18.92 km 1.4 kA	B-Earth	100	A/r successful. Tripped again within reclaim time.		No	No

62	400KV BARIPADA(PG)-NEW DUBURI-1	21-04-2023	10:05	21-04-2023	10:44	Baripada: DT received		No fault	NA	DT received at Baripada. OPTCL/PG Odisha may explain.		Yes	No
63	400KV MEDINIPUR- KHARAGPUR-1	21-04-2023	10:59	21-04-2023	15:41	Medinipur: R_N, 37 km, 5.2 kA	Kharagpur: R_N, 63 km, 4.2 kA	R- Eart h	100	A/r successful from Kharagpur, however, unbalanced current observed after A/r. WBSETCL may share the details.		No	No
64	220KV DALTONGUNJ- GARWAH (NEW)-2	21-04-2023	18:25	21-04-2023	19:44	Daltongunj: R_N, Zone-1, 18.36 km, 3.8 kA	Garawh: R_N, Zone-1, 70.82 km	R- Eart h	100	A/r successful. Tripped again in reclaim time		Yes	Yes
65	400KV RANGPO- TEESTA-V-1	21-04-2023	19:25	21-04-2023	20:04	Rangpo:R_N, Zone-2, 12.1 km ,7.8 kA		R- Eart h	100	A/r successful. Tripped again within reclaim time		No	No
66	400KV BINAGURI- TALA-4	21-04-2023	21:29	21-04-2023	22:17	Binaguri: B_N, Zone-2, 122.8 km, 3.3 kA		B- Eart h	500	Tripped in Zone-2 time from Binaguri.		No	NA
67	220KV BIRPARA- MALBASE-1	21-04-2023	21:42	21-04-2023	22:46	Birpara: Y_N	Malbase: Y_N, Zone-1, 14.9 km, 2.49 kA	Y- Eart h	100	A/r couldn't be ascertained from PMU		No	NA

68	400KV PATNA-SAHARSA-1	21-04-2023	21:43	21-04-2023	22:24	Patna: R_N, 20.97 km ,13 kA	Saharsa: R_N, Zone-2, 228.6 km, 2.3 kA	R-Earth	100	A/r failed after 1 second		Yes	Yes
69	400KV BINAGURI-TALA-1	21-04-2023	22:06	21-04-2023	22:33	Binaguri: B_N		B-Earth	2200	Resistive fault		No	NA
70	220KV SAHARSA(PMTL)-BEGUSARAI-1	21-04-2023	23:57	22-04-2023	01:32	Saharsa:R_N, Zone-1, 24.8 km, 1 kA	Begusarai: Zone-1, 54.7 km, Ia=3.19 kA	R-Earth	100	A/r failed after 1 second		No	Yes
71	400KV BINAGURI-TALA-4	22-04-2023	04:40	24-04-2023	21:07		Tala:R_N, 120.6 km, 3.58 kA	R-Earth	500	Tripped in Zone-2 time from Binaguri.		No	NA
72	400KV BINAGURI-KISHANGANJ-1	22-04-2023	04:43	22-04-2023	20:25	Binaguri:R_N, 20.5 km, 5.58 kA	Kishanganj: R_N, 98.6 km, 5.026 kA	R-Earth	100	A/r successful. Tripped again within reclaim time		No	No
73	400KV BINAGURI-TALA-1	22-04-2023	06:03	22-04-2023	08:32	Binaguri:B_N, 1.1 kA		B-Earth	2600	Resistive fault		No	NA

74	220KV KARAMNASHA (NEW)-SAHUPURI-1	22-04-2023	09:02	23-04-2023	04:17	Karamnasha: Didn't trip	Sahupuri: R_B, Ib= 0.32 kA, Ir= 0.3 kA	R-B	100	Line tripped from Sahupuri end only. Y_ph jumper snapped at loc. 06	NA	NA
75	220KV BARUIPUR- SUBHASGRAM(PG)-1	22-04-2023	09:31	22-04-2023	10:17	Baruipur: DT received		No fault	NA	DT received at Baruipur. PG ER- 2/WBSETCL may explain.	Yes	NA
76	400KV KHSTPP- LAKHISARAI-1	22-04-2023	13:59	23-04-2023	03:45		Lakshisarai:B_N, 145 km, 3.1 kA	B- Eart h	100	A/r failed after 1 second	No	No
77	220KV KATAPALLI- BOLANGIR(PG)-1	22-04-2023	17:04	22-04-2023	17:21	Katapalli:R_N, A/r successful	Bolangir: R_N, Zone-1, 116.7 km, 1.715 kA	R- Eart h	100	A/r successful from Katapalli. Three phase tripping at Bolangir	Yes	No
78	220KV PUSAULI(PG)- DURGAUTI-2	23-04-2023	14:42	23-04-2023	20:02	Sasaram: R_N, Zone-1, 7.41 km, 11.69 kA		R- Eart h	100	Three phase tripping for single phase fault at Pusauli end.	Yes	No

79	220KV RANCHI-MTPS(DVC)-1	23-04-2023	17:51	23-04-2023	18:30	Ranchi:R_N, 131.5 km, 1.48 kA	Mejia:R_N, Zone-1, 108.59 km, 1.598 kA	R-Earth	100	A/r successful from Ranchi. A/r disabled at Mejia.	Yes	Yes
80	400KV JHARSUGUDA-STERLITE-2	24-04-2023	04:01	24-04-2023	04:58	Jharsugada: R_N, Zone-1, 15.4 km, 14 kA	Sterlite:R_N, Zone-1, 23 kA	R-Earth	100	A/r successful from Jharsuguda only	Yes	No
81	400KV RANCHI-NEW RANCHI-1	24-04-2023	14:00	24-04-2023	14:16	Ranchi:B_N, 60.73 km, 6.17 kA, A/r successful	New Ranchi: B_N, 25.67 km, 12.295 kA	B-Earth	100	A/r successful from Ranchi. Three phase tripping at New Ranchi	Yes	Yes
82	400KV DURGAPUR-KHSTPP-2	24-04-2023	14:36	24-04-2023	15:57	Durgapur:B_N, 193.6 km, 1.713 kA	Khstpp: B_N, Zone-1, 25.79 km, 11.34 kA	B-Earth	100	A/r kept in non-auto mode to facilitate shutdown of Ckt.1	No	No
83	400KV MAITHON-RANCHI-1	24-04-2023	17:43	24-04-2023	18:22	Maithon: Y_N, 5.2 km, 13.03 kA	Ranchi:Y_N, 199.2 km, 2.06 kA	Y-Earth	100	A/r kept in non-auto mode for PID testing	No	Yes

84	400KV PUSAULI(PG)- DALTONGANJ-1	24-04-2023	22:10	25-04-2023	11:41	Pusauli: B_N, 4.8 km, 13.5 kA	Daltonganj: B_N, 196 km, 1.7 kA	B- Eart h	100	A/r successful. Tripped again within reclaim time		Yes	Yes
85	400KV NABINAGAR (NPGC)- JAKKANPUR(BH)-2	24-04-2023	23:09	25-04-2023	00:59	Nabinagar: R_N, 2.5 km, 2.5 kA	Jakkanpur: R_N, 120.6 km	R- Eart h	100	A/r couldn't be ascertained from PMU		No	No
86	400KV NABINAGAR (NPGC)- JAKKANPUR(BH)-1	24-04-2023	23:09	25-04-2023	00:45	Nabinagar: R_N	Jakkanpur: R_N, A/r successful	R- Eart h	100	A/r successful from Jakkanpur. Details may be shared by NPGC/BGCL		No	No
87	400KV GAYA- KODERMA-2	27-04-2023	05:21	27-04-2023	06:24	Gaya: B_N, 78.017 km, 4.544 kA, A/r successful	Koderma: B_N, 58 km, 6.63 kA	B- Eart h	100	A/r successful from Gaya after 1 second. From Koderma, A.r successful after 1.5 second. However, all three phase tripped from Koderma after 2 seconds. DVC may explain.	DR length less at Koderma	Yes	Yes

88	400KV DURGAPUR-KAHALGAON-1	27-04-2023	11:41	27-04-2023	12:27	Durgapur: B_N, 102.5 km, 2.89 kA, A/r successful	Kahalgaon: B_N, 121.5 km, 3.4 kA	B-Earth	100	A/r successful from Durgapur. Three phase tripping at Kahalgaon		No	No
89	400 KV DURGAPUR-SAGARDIGHI-1	27-04-2023	11:47	27-04-2023	12:52	Durgapur: B_N, 90.6 km, 4.79 kA	Sagardighi: B_N, 66.8 km, 4.39 kA	B-Earth	100	A/r in non-auto mode for OPGW work		No	No
90	400KV ALIPURDUAR (PG)-BINAGURI-4	27-04-2023	17:02	27-04-2023	21:15	Alipurduar: B_N, 57.2 km, 4.36 kA	Binaguri: B_N, 70.19 km, 5.391 kA	B-Earth	100	A/r failed after 1 second		No	No
91	220KV CHUKHA-BIRPARA-1	29-04-2023	01:53	29-04-2023	03:39		Birpara: R_Y, 42 km, Ir: 2.708 kA, Iy: 2.335 kA	R-Y	100	Phase to phase fault		NA	No
92	220KV CHUKHA-BIRPARA-2	29-04-2023	01:53	29-04-2023	03:40		Birpara: R_Y, Zone-1, 42.32 km, Ir: 2.773 kA, Iy: 2.329 kA	R-Y	100	Phase to phase fault		NA	No

93	400KV BINAGURI-TALA-2	29-04-2023	01:59	29-04-2023	02:59	Binaguri:R_N, Zone-1, 125.2 km, 2.8 kA		R-Earth	100	Three phase tripping for single phase fault		No	NA
94	400KV ALIPURDUAR (PG)-JIGMELLING-2	29-04-2023	03:53	29-04-2023	04:30	Alipurduar: R_N, Zone-1, 60.5 km, 6.7 kA Jimelling: R_N, Zone-1, 125.4 km, 1.59 kA		R-Earth	100	As per PMU, A/r failed after 1 second.		No	NA
95	220KV CHUKHA-BIRPARA-1	29-04-2023	04:10					Birpara: R_B, 55.32 km, Ir: 2.372 kA, Ib: 2.774 kA	R-B	100	Phase to phase fault	NA	No
96	220KV CHUKHA-BIRPARA-2	29-04-2023	04:10	29-04-2023	09:56	Chukha: R_B, Zone-1, 54.2 km, Ir= 2.447 kA, Ib= 2.739 kA Birpara: R_B, Zone-1, 53.98 km, Ir= 2.482 kA, Ib= 2.758 kA		R-B	100	Phase to phase fault		NA	No

97	400KV KOLAGHAT-NEW CHANDITALA-1	29-04-2023	15:07	29-04-2023	16:05	Kolaghat: R_N, Zone-2, 51.69 km, 4.293 kA	New chanditala: R_N, Zone-1, 5.85 km, Ir= 15.07 kA	R-Earth	100	A/r couldn't be ascertained from PMU	No	No
98	220KV TTPS-TSTPP-1	29-04-2023	18:21	29-04-2023	19:20	TTPS: B_N, 21.09 km, 4.78 kA	TSTPP: B_N, Zone-1, 6.89 km, 10.89 kA	B-Earth	100	A/r couldn't be ascertained from PMU	No	No
99	400KV ALIPURDUAR (PG)-PUNASANGCHUN-2	30-04-2023	00:28	30-04-2023	01:41	Alipurduar: R_N, 83.7 km, 3.34 kA, A/r successful	Punasangchu: R_N, 160 km, 1.25 kA	R-Earth	100	A/r successful from Alipurduar only	No	NA
100	400KV BINAGURI-MALBASE-3	30-04-2023	03:04	30-04-2023	03:37	Binaguri: R_N, 113 km, 7.962 kA, A/r successful	Malbase: R_N, 166 km, 1.908 kA	R-Earth	100	A/r successful from Binaguri only	No	NA

101	220KV NEW TOWN(AA-III)-RAJARHAT-1	30-04-2023	13:23	30-04-2023	15:33	New town: B_N, 5.5 km, 14.4 kA	Rajarhat:B_N 0.4 km, 23.42 kA	B-Earth	100	A/r successful. Tripped again within reclaim time		No	No
102	400KV ARAMBAGH-BAKRESWAR-1	30-04-2023	15:09	30-04-2023	16:01	Arambagh:B_N, Zone-1, 33.95 km, 8.54 kA	Bakreswar: B_N, Zone-1, 102.9 km, 2.42 kA	B-Earth	100	A/r kept in non-auto mode for OPGW installation work		No	No
103	220KV NEW TOWN(AA-III)-RAJARHAT-2	30-04-2023	16:03	30-04-2023	16:17	New town: Y_N, Zone-1, 1.07 km, 15.6 kA	Rajarhat:Y_N, Zone-2, 5.9 km, 8.92 kA	Y-Earth	100	A/r successful from Rajarhat only.		No	No
104	220KV PATNA-KHAGAUL-2	30-04-2023	15:56	30-04-2023	16:54	Patna: A/r successful	Khagaul: Y_N, 12.9 km, 7.23 kA	Y-Earth	100	A/r successful from Patna only		Yes	No
105	220KV SAHARSA-BEGUSARAI-2	30-04-2023	15:17	30-04-2023	20:12	Saharsa: B_N, 89.46 km, 1.98 kA	Begusarai: B_N, Zone-1, 1.0436 km, 11.01 kA	B-Earth	100	Details may be shared by BSPTCL/PMTL		No	No

106	765KV FATEHPUR- PUSAULI-1	30-04-2023	19:08	30-04-2023	20:36		Pusauli: B_N, 2.159 kA, 144.6 km	B- Eart h	100	Three phase tripping for single phase fault	NA	Yes
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